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2008 AGWMR

10/12/2009

2008 ANNUAL GROUNDWATER MONITORING REPORT

FORMER NEW MEXICO STATE "F" TANK BATTERY
CASE NO. 1R258
OGRID NO. 4323
NE/4, SE/4, SECTION 24, T-19-S, R-36-E
LATITUDE: N 32° 38′ 34.9″ LONGITUDE: W 103° 18′ 0.49″
LEA COUNTY, NEW MEXICO

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LEA COUNTY, NEW MEXICO

Prepared For:
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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2008 reporting period by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the former New Mexico State "F" Tank Battery (hereafter referred to as the "Site"). Groundwater gauging and sampling events were performed on March, June, September and November 2008.

The Site is located on Lea County Road 41 (Maddox Road), approximately 3.1 miles northwest of Monument, New Mexico and situated in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. Site Location and Site Details maps are illustrated on FIGURES 1 and 2, respectively. Historically, Texaco Exploration and Production, Inc. (Texaco) operated the Site as an oil field tank battery. An earthen emergency reserve pit was located approximately 175 feet north of the tank battery. The tank battery and reserve pit are visible in aerial photographs dated February 1949, July 1983, and June 1986. Sometime after 1986, the tank battery and associated equipment were removed from the Site. The former reserve pit was subsequently unearthed during construction of a production facility immediately south of the pit by the Amerada-Hess Corporation.

The former pit was excavated and approximately 7,400 cubic yards of soil and caliche rock were stockpiled adjacent to the excavated pit. In 1998, Highlander Environmental Corporation (Highlander) performed a subsurface assessment at the Site. The assessment activities included collection of soil samples from the sidewalls and bottom of the excavation and from the stockpiled soil generated during excavation activities. Chemical analyses of the soil samples confirmed that concentrations of all constituents of concern were below the New Mexico Oil Conservation Division (NMOCD) recommended remediation action levels for the Site. The soil sampling activities and laboratory analyses are documented in the *Subsurface Investigation Report, New Mexico "F" State Tank Battery, Lea County, New Mexico* (Highlander, September 1998). The *Annual Groundwater Monitoring Report, New Mexico "F" State Tank Battery, Lea County, New Mexico* (Larson and Associates, Inc., 2005) indicates that the pit was closed between September 1998 and November 2003 according to closure requirements stipulated by the NMOCD in correspondence dated January 20, 1999. The bottom of the excavated pit was lined with two feet of compacted clay, the stockpiled soil was returned to the excavation and the backfilled excavation was contoured to natural grade.

In addition to the soil assessment activities, nine monitor wells (MW-1 through MW-9) were installed at the Site between 1998 and 1999. Light non-aqueous phase liquid (LNAPL) was observed in wells MW-1 and MW-2. In November 1999, wells MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with recovery wells RW-1, RW-2 and RW-3. On February 17, 2003, New Mexico Office of the State Engineer (NMOSE) approved applications (File No. L-11029, L-11030 and L-11031) submitted by Texaco to divert underground water for remediation of LNAPL. The remediation system was installed from October 2004 through February 2005 and was activated on February 14, 2005. Excluding brief periods for routine maintenance, the groundwater recovery/gradient control system operated from February 14, 2005 to

November 20, 2006. In November 2006, LNAPL recovery methods were re-evaluated and the total fluids groundwater recovery/gradient control system was shut down. An LNAPL skimmer pump system was installed in RW-1 and absorbent socks were installed in RW-2 and RW-3 on November 28, 2006. This system is currently in operation at the Site. Semi-annual groundwater monitoring and weekly operation and maintenance (O&M) activities have been performed by CRA since 2005 along with annual reporting to the NMOCD for this Site. In addition, quarterly gauging activities were performed in 2008 at the Site.

2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. In addition, the NMWQCC regulations provide the Human Health Standards for Groundwater. The constituent of concern in affected groundwater at the Site is LNAPL in the form of crude oil. In this report, groundwater analytical results for benzene, toluene, ethylbenzene, total xylenes (BTEX) and chloride are compared to the NMWQCC standards as shown in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total xylenes	0.62
Chloride	250

3.0 GROUNDWATER SAMPLING AND ANALYSIS

The Site is monitored with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8), two offsite water wells (WW-1 and WW-2) and three recovery wells (RW-1, RW-2 and RW-3). Four quarterly monitoring and sampling events were performed during the 2008 calendar year. The first (March) and third (September) quarter 2008 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of a groundwater sample from a single monitor well (MW-6). The second (June) and fourth (November) quarter 2008 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of groundwater samples from all six monitor wells and the two offsite water wells. Static fluid levels were not collected from the two offsite water wells (WW-1 and WW-2) during the 2008 calendar year.

The first and third quarter monitoring and sampling activities were performed on March 6, 2008 and September 4, 2008. The second and fourth quarter monitoring and sampling activities were performed on June 4, 2008 and November 13, 2008. Prior to purging, static fluid levels and LNAPL thicknesses were measured from top of casing (TOC) with an electric interface probe to the nearest hundredth of a foot and recorded. Purging was considered complete when three well volumes had been removed or the wells were purged dry. Geochemical field parameters including pH, temperature and conductivity were collected during the purging/sampling process. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final deionized water rinse to minimize potential cross-contamination between each monitor well. Subsequent to the purging process, groundwater samples were collected using clean, disposable PVC bailers. Laboratory-supplied sample containers were then filled directly from the disposable PVC bailers.

Wells that contained measurable (>0.01 foot) LNAPL were not purged or sampled during the March 6, 2008, September 4, 2008 and November 13, 2008 sampling events. During the June 4, 2008 sampling event, all wells were purged and sampled, including wells that contained measurable LNAPL (>0.01 foot). The groundwater samples were placed on ice in an insulated cooler and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory (Test America Laboratories, Inc. located in Houston, Texas) for analyses of BTEX by EPA Method 8021B and chlorides by EPA-approved methods. The fluids recovered and generated during the sampling events were containerized onsite in labeled drums and subsequently managed at an NMOCD-permitted salt water disposal (SWD) facility by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE ELEVATION AND GRADIENT

Groundwater elevation data are presented in TABLE I. Groundwater gradient maps for each quarterly event (March, June, September and November 2008) are presented on FIGURES 3, 4, 5 and 6 respectively. Depth to groundwater ranged from 50.42 feet to 65.68 feet below TOC on March 3, 2008, from 50.32 feet to 65.39 feet below TOC on June 4, 2008, from 50.90 feet to 65.56 feet below TOC on September 4, 2008 and from 50.15 feet to 65.32 feet below TOC on November 13, 2008. Groundwater elevations at the Site appear to be consistent with historical levels with groundwater flow to the southeast. The maximum gradient observed during the 2008 calendar year was 0.004 feet/foot.

LNAPL was not detected in the monitor wells during the 2008 monitoring period. Historically, three onsite recovery wells have contained measurable amounts of LNAPL. LNAPL was present in recovery well RW-1 with a thickness of 0.48 feet in March 2008, 0.78 feet in June 2008, 0.31 feet in September 2008 and 2.49 feet in November 2008. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the November sampling event, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled. LNAPL thickness maps for March, June, September and November 2008 are presented as FIGURES 7, 8, 9 and 10, respectively.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Groundwater BTEX and chloride concentration maps for March, June, September and November 2008 are presented as FIGURES 11, 12, 13 and 14, respectively. BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2008 monitoring period except for RW-1. Recovery well RW-1 exhibited a benzene concentration of 0.0119 mg/L. Copies of the certified laboratory reports are provided in APPENDIX A.

4.0 CORRECTIVE ACTION

Excluding brief periods for routine maintenance, the Xitech® LNAPL skimmer pump system installed in RW-1 operated continuously from January to December 2008. The best course of action for the two other recovery wells (RW-2 and RW-3) was determined to be absorbent socks based on trace amounts of LNAPL observed in both wells.

Operation and maintenance (O&M) activities were performed on a weekly basis. As of December 30, 2008, approximately 204 gallons of LNAPL have been recovered since January 2, 2008 from RW-1. Additionally, approximately 551 gallons of LNAPL have been recovered since November 28, 2006 when the skimmer system was installed in RW-1.

5.0 PLANNED ACTIVITIES

The Xitech® skimmer pump system will continue to be utilized for LNAPL recovery at the Site in 2009. The recovered product will be pumped into the 225-gallon tank which is situated inside a secondary containment structure.

Semi-annual groundwater sampling events are scheduled to be performed during June and November 2009. Groundwater samples will be collected from all wells that do not contain measurable LNAPL and from the two offsite water wells (WW-1 and WW-2). The wells (RW-1, RW-2 and RW-3) will be sampled during the June 2009 sampling event. In addition, quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. Weekly O&M activities will also be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3) as necessary.

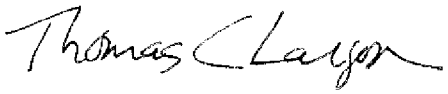
6.0 SUMMARY OF FINDINGS

Based on groundwater monitoring activities performed at the Site, CRA presents the following summary:

- The Site is monitored semi-annually with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8), three recovery wells (RW-1, RW-2 and RW-3) and two offsite water wells (WW-1 and WW-2). Depth to groundwater ranged from 50.42 feet to 65.68 feet below TOC on March 3, 2008, from 50.32 feet to 65.39 feet below TOC on June 4, 2008, from 50.90 feet to 65.56 feet below TOC on September 4, 2008 and from 50.15 feet to 65.32 feet below TOC on November 13, 2008. Groundwater flow at the Site is to the southeast and the maximum gradient observed in 2008 was 0.004 feet/foot.
- LNAPL was not detected in the monitor wells during the 2008 monitoring period. LNAPL was present in recovery well RW-1 with a thickness of 0.48 feet in March 2008, 0.78 feet in June 2008, 0.31 feet in September 2008 and 2.46 feet in November 2008. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the November sampling event, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled.
- BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2008 monitoring period. However, RW-1 exhibited a benzene concentration of 0.0119 mg/L during the June 2008 sampling event. This was above NMWQCC standards.
- The Xitech® LNAPL skimmer pump system in RW-1 operated continuously from January to December 2008. As of December 30, 2008, approximately 204 gallons of LNAPL have been recovered since January 2, 2008 from RW-1. Additionally, approximately 551 gallons of LNAPL have been recovered since November 28, 2006 when the skimmer pump system was installed in RW-1.
- The 2009 semi-annual groundwater sampling events are scheduled to be performed during June and November 2009. Groundwater samples will be collected from all wells that do not contain measurable LNAPL and from the two offsite water wells (WW-1 and WW-2). The wells (RW-1, RW-2 and RW-3) will be sampled during the June 2009 sampling event. In addition, quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. Weekly O&M activities will be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3) as necessary.

All of Which is Respectfully Submitted,
Conestoga – Rovers & Associates

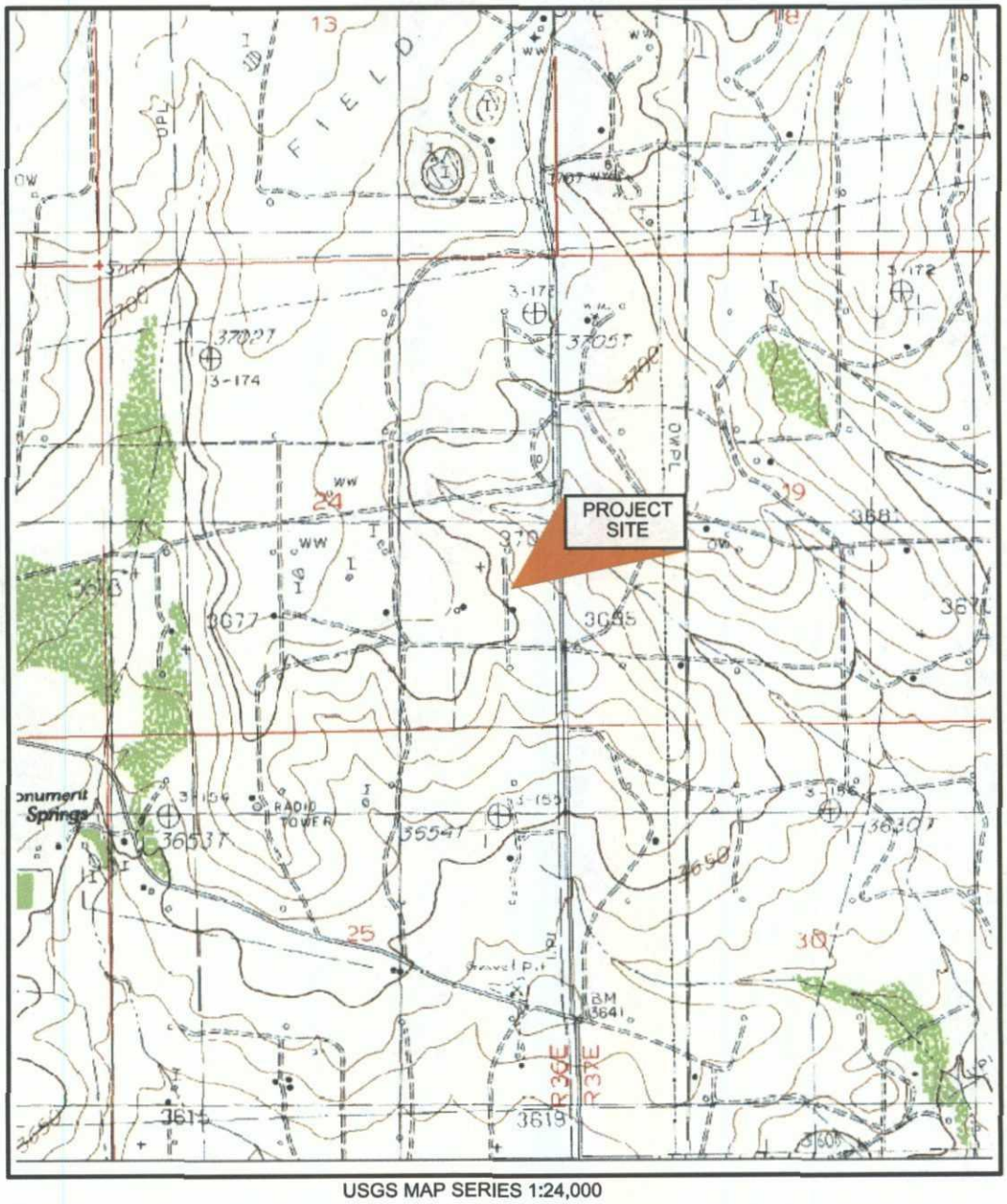
Todd Wells
Project Manager



Thomas C. Larson
Operations Manager

MONUMENT NORTH QUADRANGLE
NEW MEXICO

LAT= 32° 38' 34.59" N
LONG= 103° 18' 4.74" W
PHOTOREVISED 1985



USGS MAP SERIES 1:24,000

0 1/2 1 2
(Miles)

0 2000 4000 6000 8000
(Feet)

CONTOUR INTERVAL 10 FEET

NORTH

figure 1

SITE LOCATION MAP
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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IR258, P. 15-28

LEGEND

- MONITOR WELL
- RECOVERY WELL
- WATER WELL
- FENCE LINE

figure 2

SITE DETAILS MAP
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

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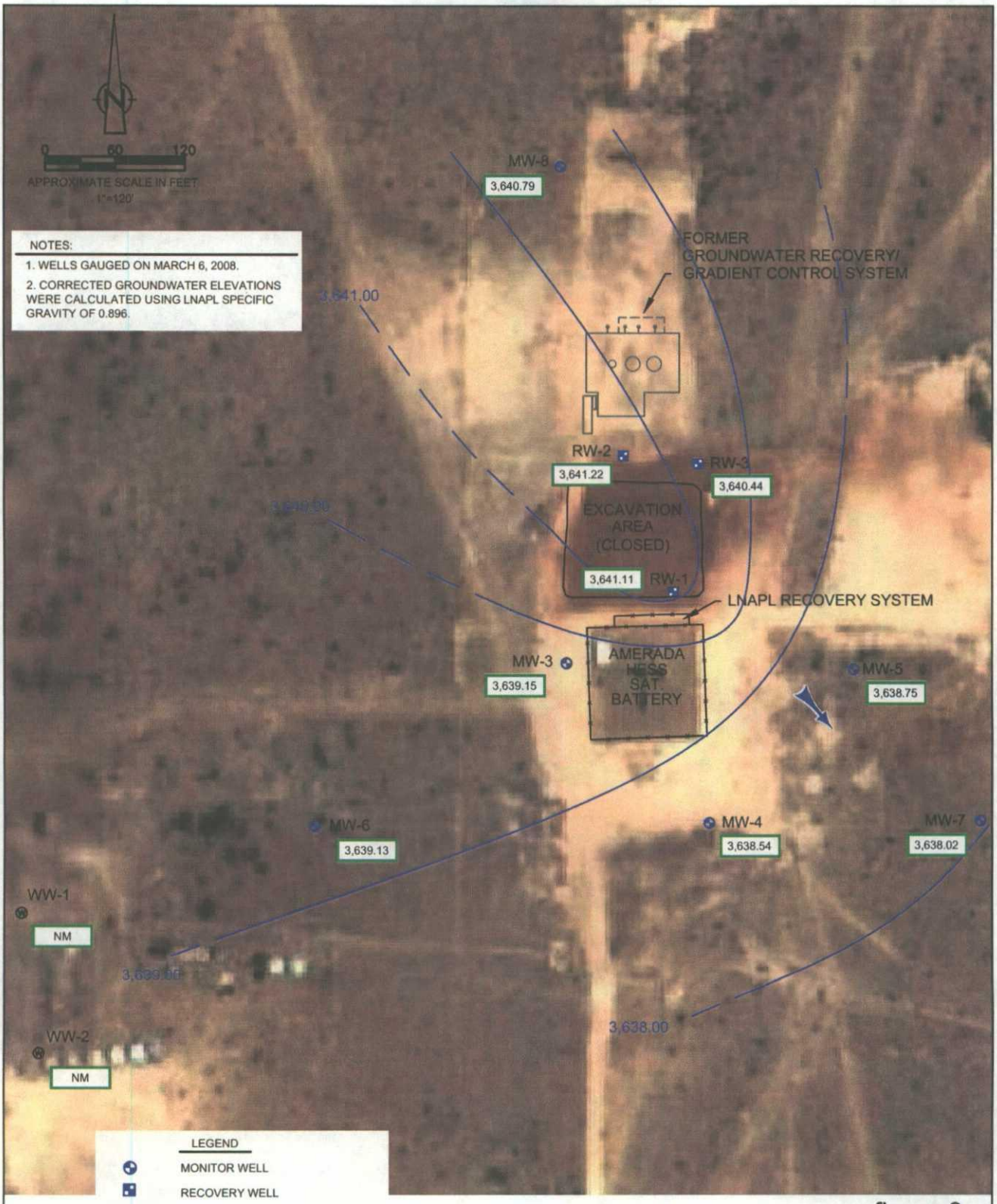

figure 3

GROUNDWATER GRADIENT MAP - MARCH 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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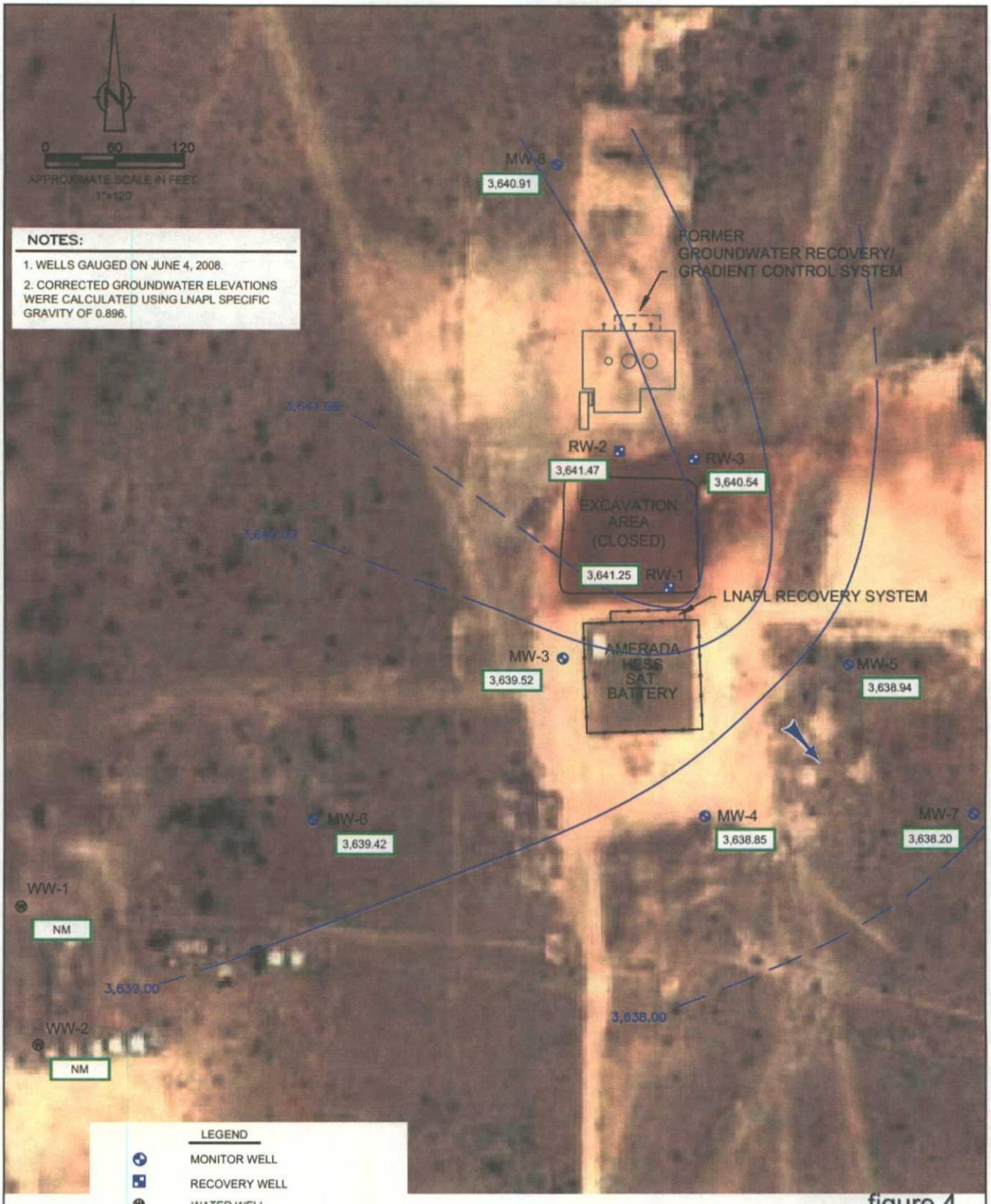

figure 4

GROUNDWATER GRADIENT MAP - JUNE 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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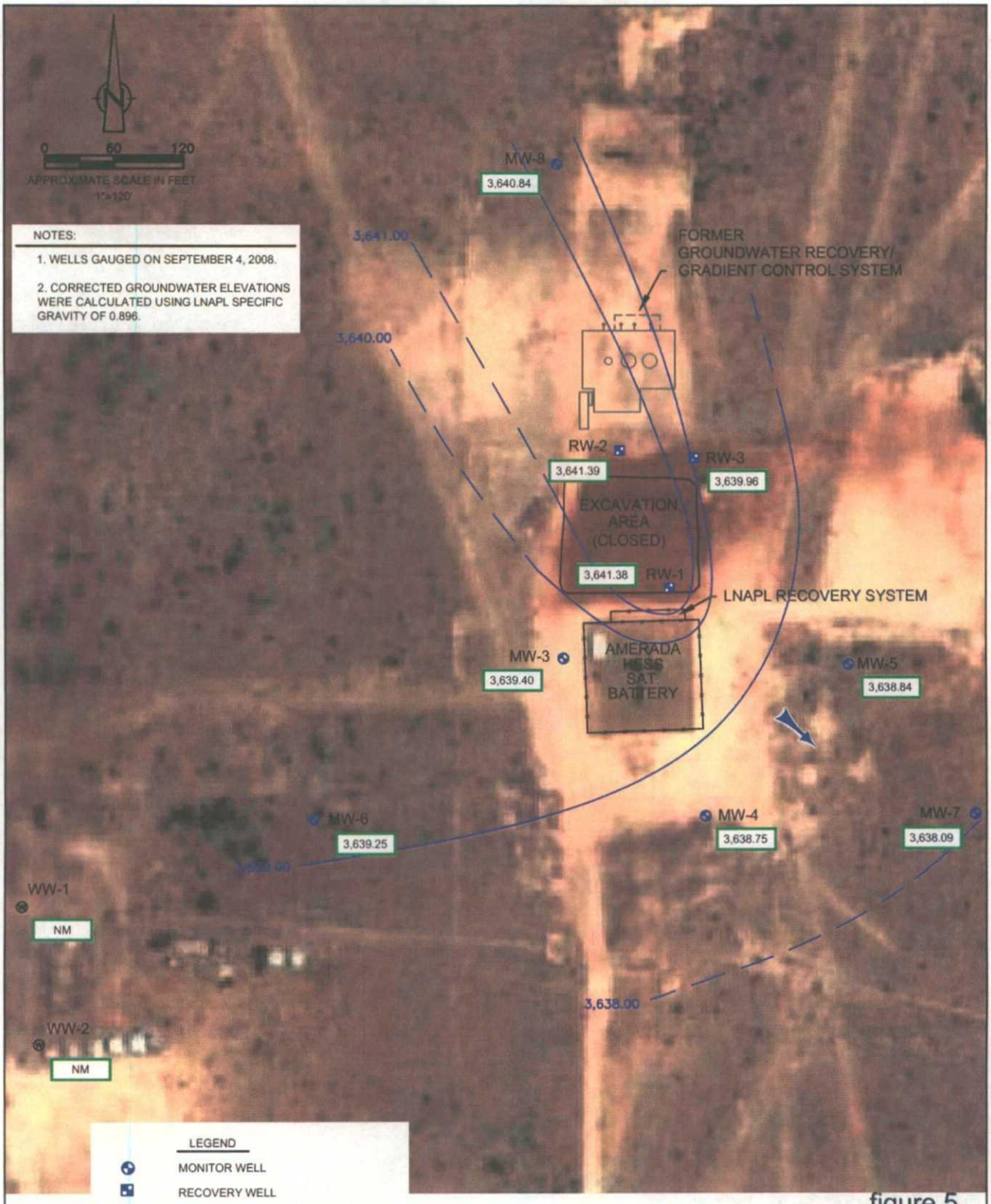

figure 5

GROUNDWATER GRADIENT MAP - SEPTEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

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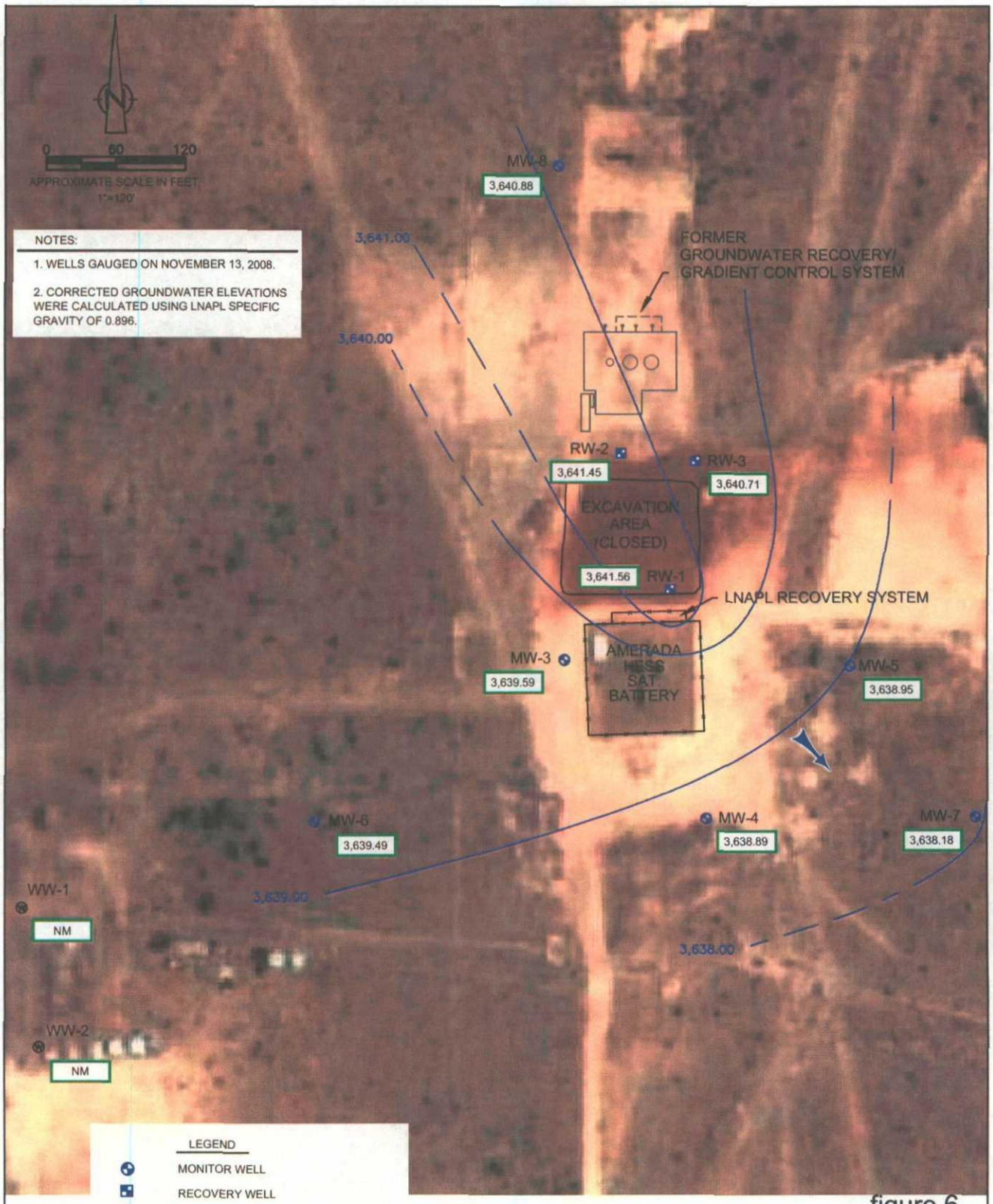

figure 6

GROUNDWATER GRADIENT MAP - NOVEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

039122-08(005)GN-MD001 MAR 31/2009

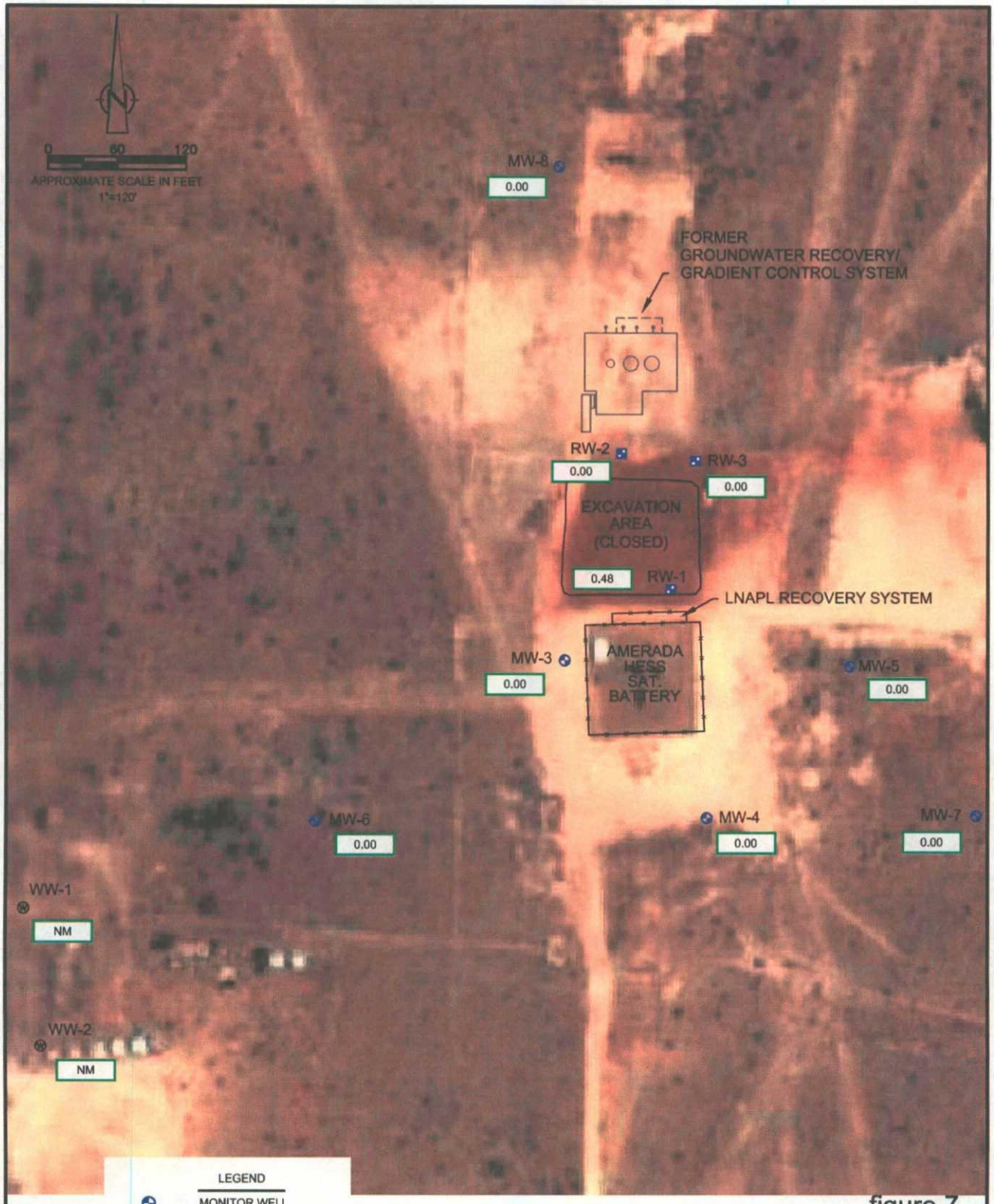

figure 7

LNAPL THICKNESS MAP - MARCH 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

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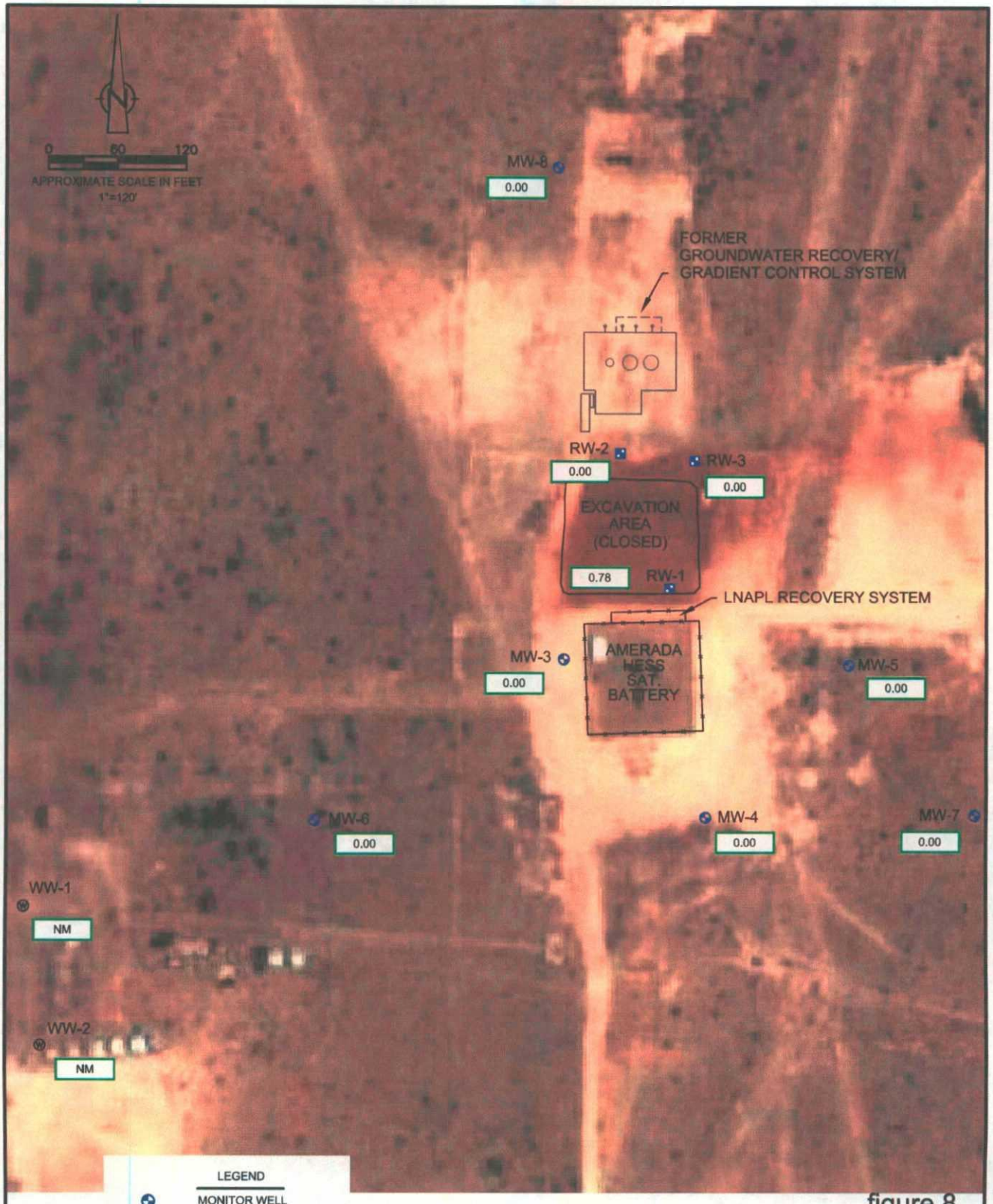

figure 8

LNAPL THICKNESS MAP - JUNE 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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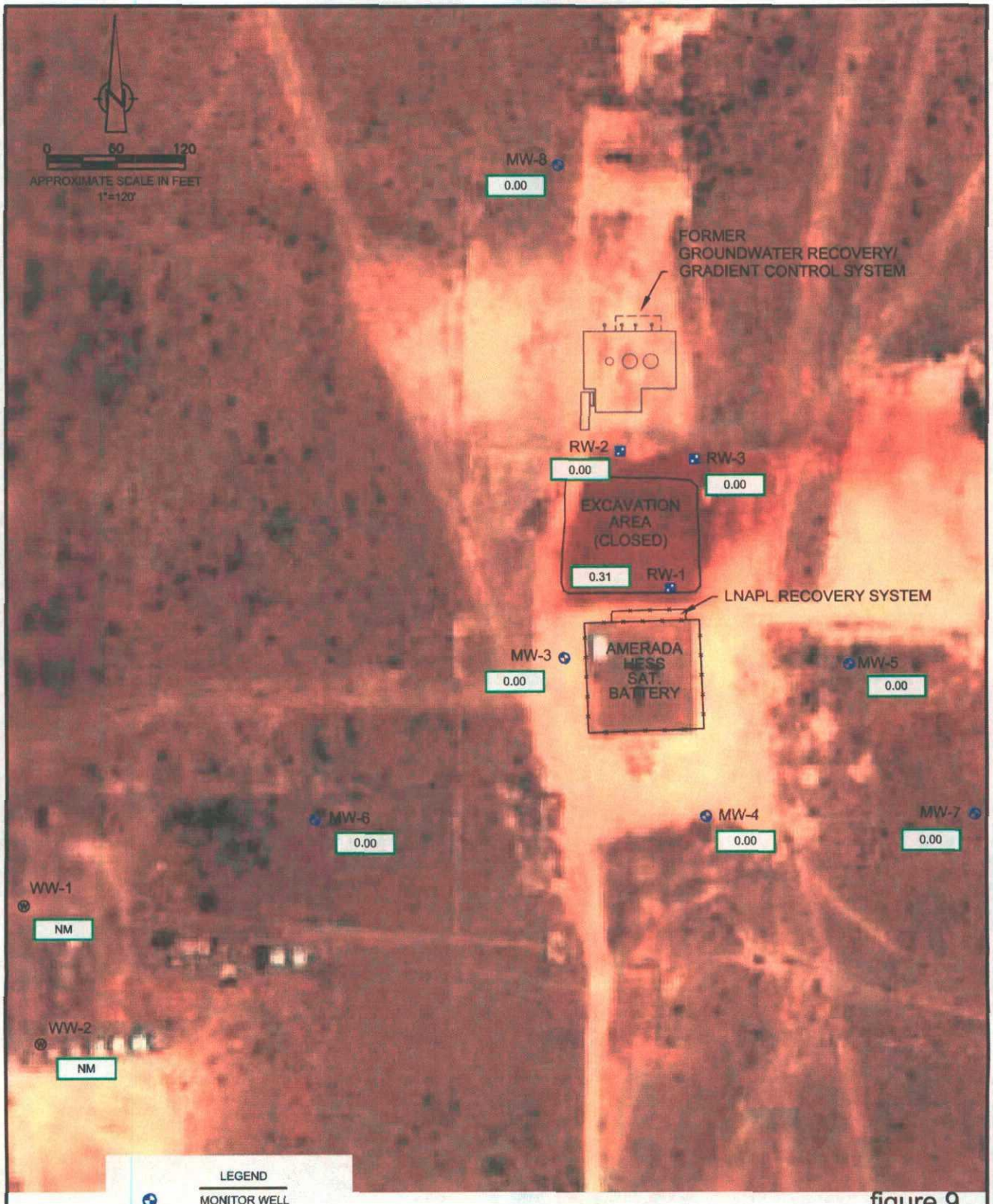

figure 9

LNAPL THICKNESS MAP - SEPTEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

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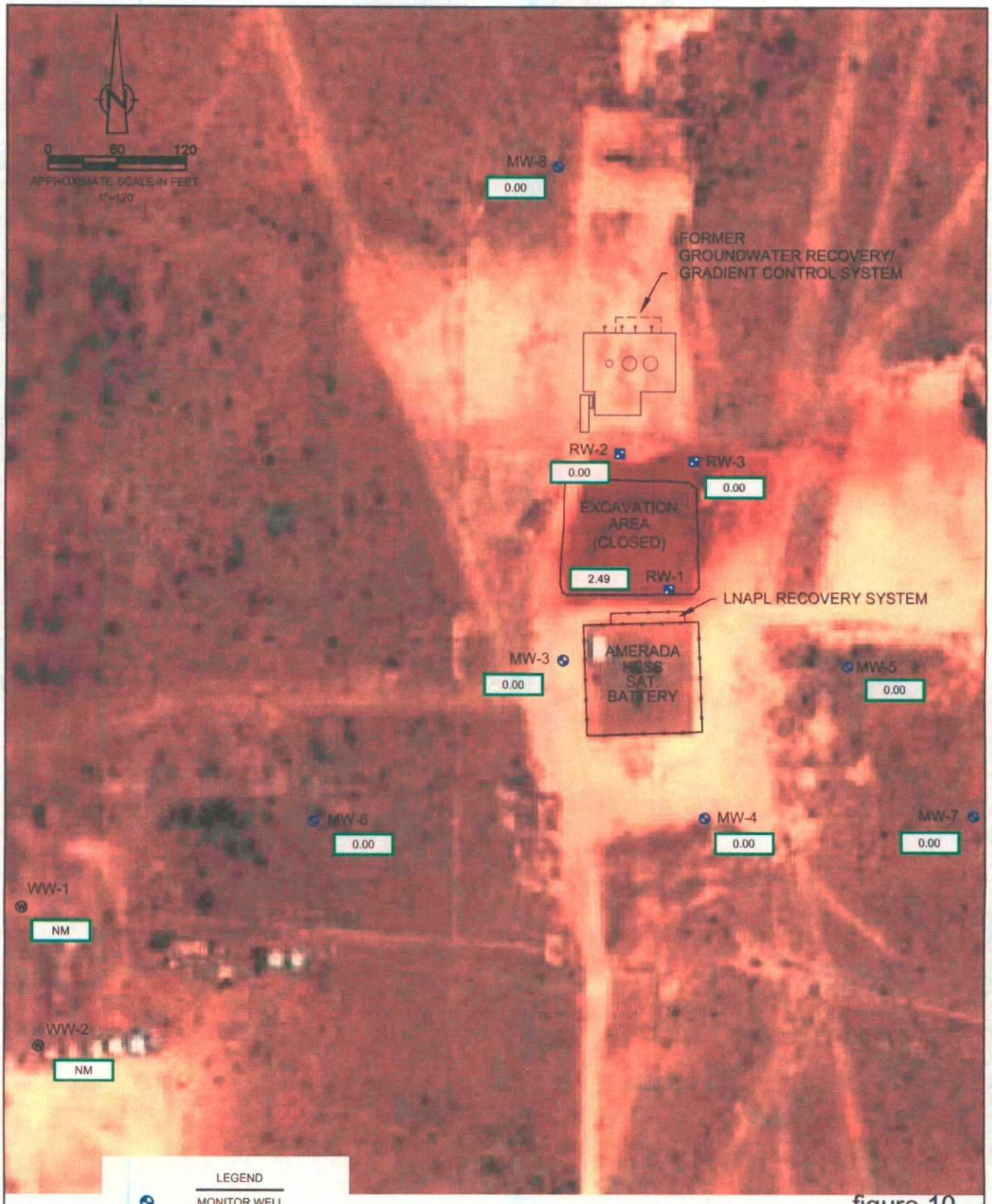

figure 10

LNAPL THICKNESS MAP - NOVEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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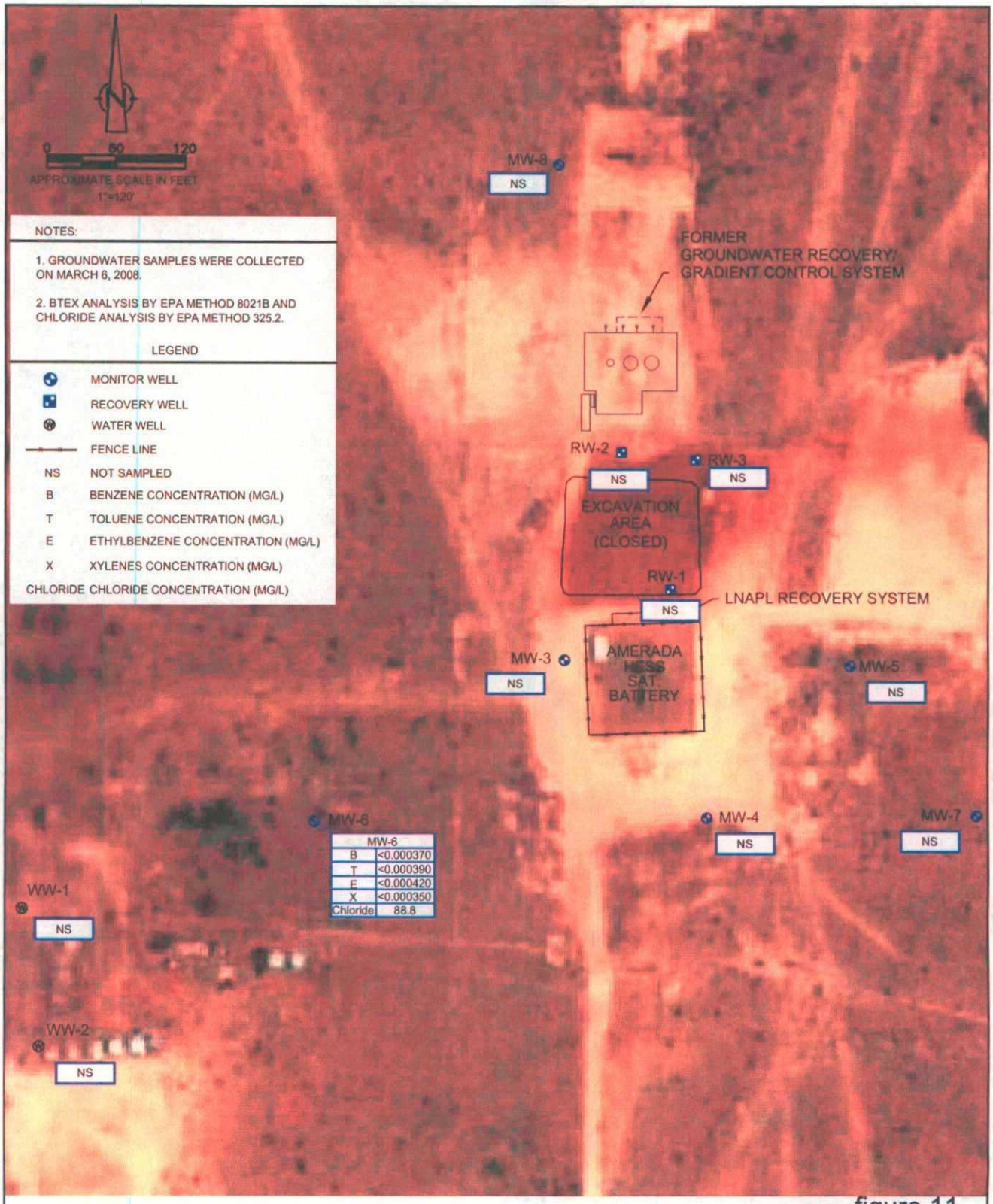

figure 11

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP - MARCH 2008

NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT

LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

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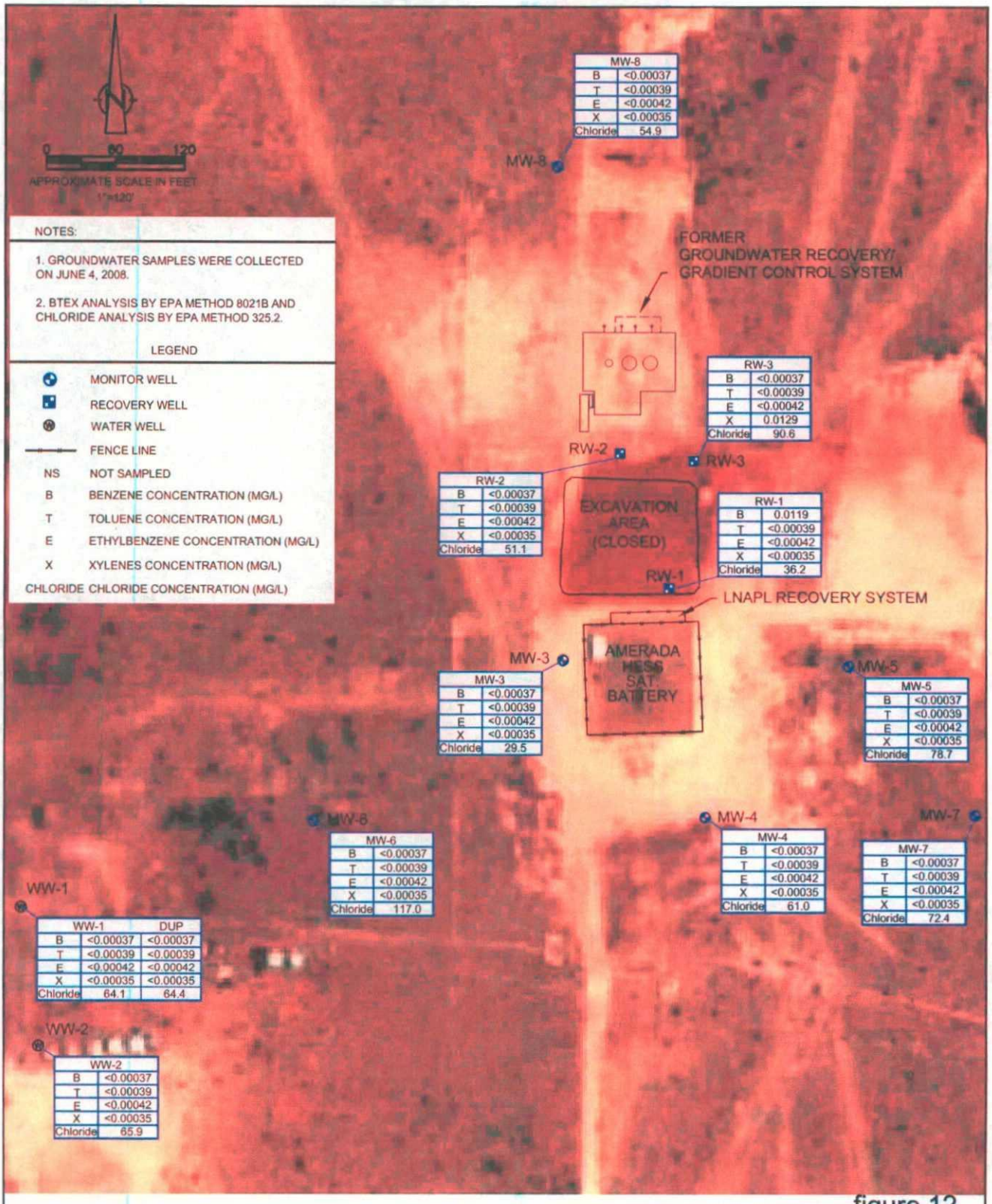

figure 12

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP - JUNE 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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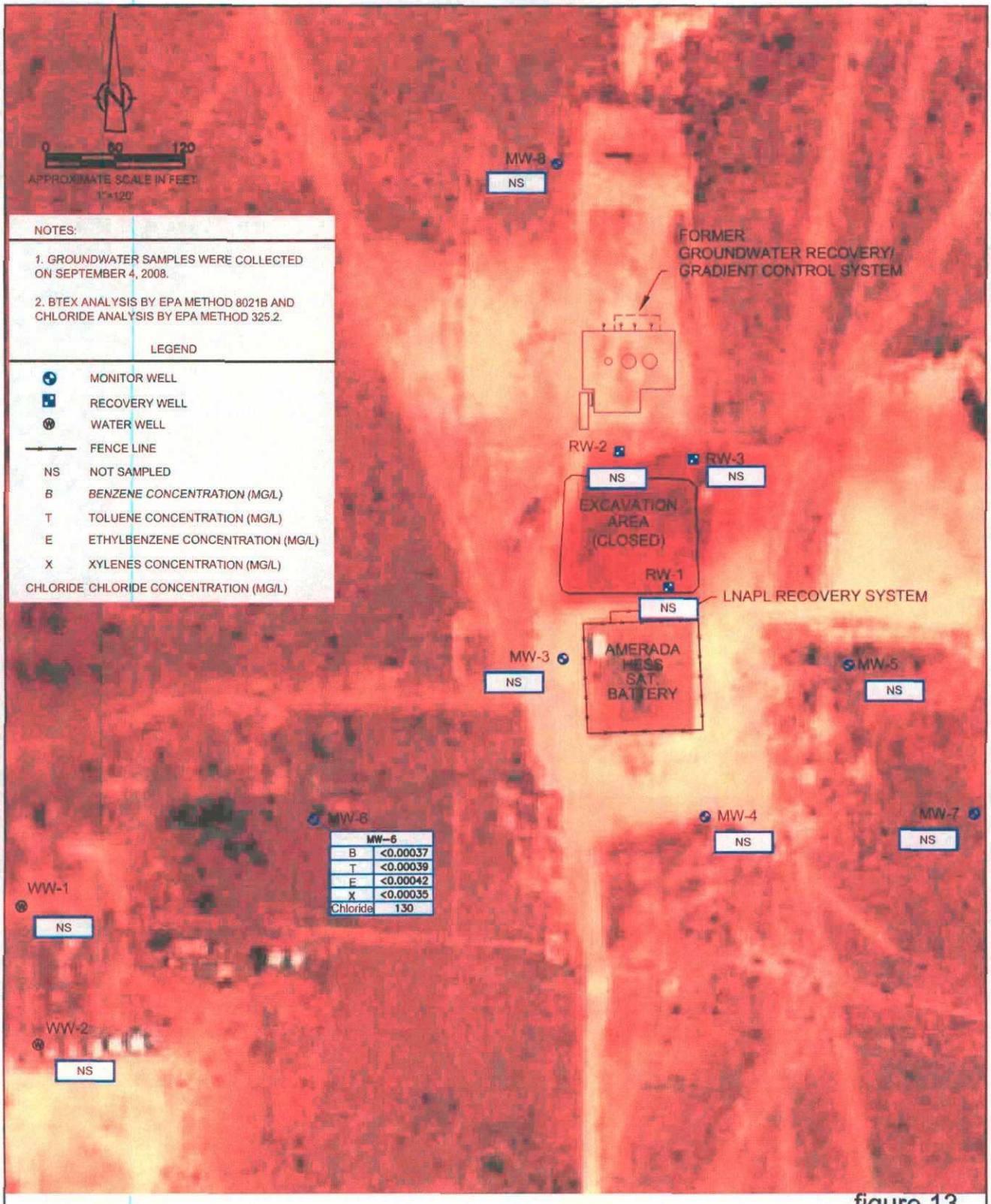

figure 13

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP - SEPTEMBER 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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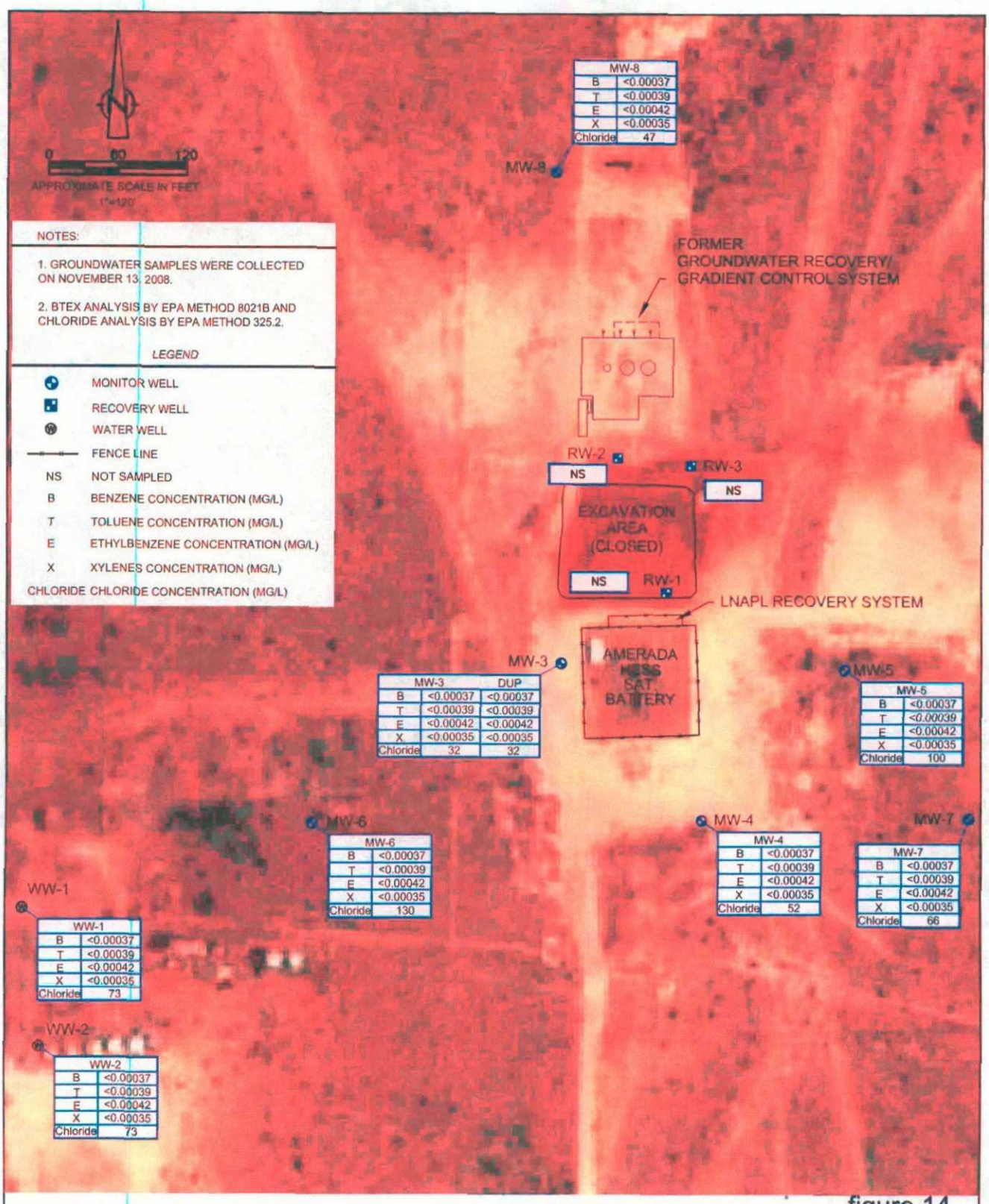

figure 14

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP - NOVEMBER 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

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TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-3	7/28/98	59.53	---	---	3637.32	70.15	55 - 75
3696.85	6/25/99	59.06	---	---	3637.79	---	---
	2/16/01	59.53	---	---	3637.32	---	---
	6/11/02	59.18	---	---	3637.67	---	---
	11/26/02	59.54	---	---	3637.31	---	---
	6/5/03	59.45	---	---	3637.40	---	---
	12/3/03	59.47	---	---	3637.38	---	---
	7/1/04	59.24	---	---	3637.61	---	---
	12/20/04	58.83	---	---	3638.02	---	---
	6/6/05	58.53	---	---	3638.32	---	---
	12/12/05	57.83	---	---	3639.02	---	---
	1/25/06	57.85	---	---	3639.00	---	---
	5/1/06	57.59	---	---	3639.26	---	---
	6/26/06	57.66	---	---	3639.19	---	---
	12/18/06	57.54	---	---	3639.31	---	---
	3/16/07	57.43	---	---	3639.42	---	---
	6/26/07	57.31	---	---	3639.54	---	---
	9/27/07	57.89	---	---	3638.96	---	---
	12/13/07	57.61	---	---	3639.24	---	---
	3/6/08	57.70	—	—	3639.15	—	—
	6/4/08	57.33	—	—	3639.52	—	—
	9/4/08	57.45	—	—	3639.40	—	—
	11/13/08	57.26	—	—	3639.59	—	—
MW-4	7/28/98	69.72	---	---	3629.78	68.74	55 - 75
3699.50	6/25/99	62.31	---	---	3637.19	---	---
	2/16/01	62.52	---	---	3636.98	---	---
	6/11/02	62.39	---	---	3637.11	---	---
	11/26/02	62.76	---	---	3636.74	---	---
	6/5/03	62.71	---	---	3636.79	---	---
	12/3/03	62.67	---	---	3636.83	---	---
	7/1/04	62.43	---	---	3637.07	---	---
	12/20/04	62.02	---	---	3637.48	---	---
	6/6/05	61.67	---	---	3637.83	---	---
	12/12/05	61.11	---	---	3638.39	---	---
	1/25/06	61.11	---	---	3638.39	---	---
	5/1/06	60.89	---	---	3638.61	---	---
	6/26/06	60.93	---	---	3638.57	---	---
	12/18/06	60.79	---	---	3638.71	---	---
	3/16/07	60.72	---	---	3638.78	---	---
	6/26/07	60.60	---	---	3638.90	---	---
	9/27/07	61.02	---	---	3638.48	---	---
	12/13/07	60.88	---	---	3638.62	---	---
	3/6/08	60.96	—	—	3638.54	—	—
	6/4/08	60.65	—	—	3638.85	—	—
	9/4/08	60.75	—	—	3638.75	—	—
	11/13/08	60.61	—	—	3638.89	—	—

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-5	7/28/98	56.53	---	---	3636.99	66.80	48 - 68
3693.52	3/23/99	56.30	---	---	3637.22	---	---
	6/25/99	56.21	---	---	3637.31	---	---
	2/16/01	56.31	---	---	3637.21	---	---
	6/11/02	56.29	---	---	3637.23	---	---
	11/26/02	56.13	---	---	3637.39	---	---
	6/5/03	56.53	---	---	3636.99	---	---
	12/3/03	56.57	---	---	3636.95	---	---
	7/1/04	54.34	---	---	3639.18	---	---
	12/20/04	55.86	---	---	3637.66	---	---
	6/6/05	55.60	---	---	3637.92	---	---
	12/12/05	55.04	---	---	3638.48	---	---
	1/25/06	55.07	---	---	3638.45	---	---
	5/1/06	54.87	---	---	3638.65	---	---
	6/26/06	54.86	---	---	3638.66	---	---
	12/18/06	54.61	---	---	3638.91	---	---
	3/16/07	54.51	---	---	3639.01	---	---
	6/26/07	54.49	---	---	3639.03	---	---
	9/27/07	54.84	---	---	3638.68	---	---
	12/13/07	54.74	---	---	3638.78	---	---
	3/6/08	54.77	—	—	3638.75	—	—
	6/4/08	54.58	—	—	3638.94	—	—
	9/4/08	54.68	—	—	3638.84	—	—
	11/13/08	54.57	—	—	3638.95	—	—
MW-6	7/28/98	67.86	---	---	3636.95	78.25	56 - 76
3704.81	6/25/99	67.25	---	---	3637.56	---	---
	2/16/01	67.45	---	---	3637.36	---	---
	6/11/02	67.19	---	---	3637.62	---	---
	11/26/02	67.09	---	---	3637.72	---	---
	6/5/03	67.57	---	---	3637.24	---	---
	12/3/03	67.61	---	---	3637.20	---	---
	7/1/04	67.43	---	---	3637.38	---	---
	12/20/04	67.55	---	---	3637.26	---	---
	6/6/05	66.41	---	---	3638.40	---	---
	12/12/05	65.80	---	---	3639.01	---	---
	1/25/06	65.88	---	---	3638.93	---	---
	5/1/06	65.57	---	---	3639.24	---	---
	6/26/06	65.82	---	---	3638.99	---	---
	12/18/06	65.67	---	---	3639.14	---	---
	3/16/07	65.69	---	---	3639.12	---	---
	6/26/07	65.41	---	---	3639.40	---	---
	9/27/07	66.46	---	---	3638.35	---	---
	12/13/07	65.85	---	---	3638.96	---	---
	3/6/08	65.68	—	—	3639.13	—	—
	6/4/08	65.39	—	—	3639.42	—	—
	9/4/08	65.56	—	—	3639.25	—	—
	11/13/08	65.32	—	—	3639.49	—	—

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-7	7/28/98	58.08	---	---	3636.50	68.88	49 - 69
3694.58	6/25/99	57.96	---	---	3636.62	---	---
	2/16/01	58.09	---	---	3636.49	---	---
	6/11/02	58.07	---	---	3636.51	---	---
	11/26/02	57.92	---	---	3636.66	---	---
	6/5/03	58.29	---	---	3636.29	---	---
	12/3/03	58.33	---	---	3636.25	---	---
	7/1/04	58.11	---	---	3636.47	---	---
	12/20/04	57.62	---	---	3636.96	---	---
	6/6/05	57.28	---	---	3637.30	---	---
	12/12/05	56.84	---	---	3637.74	---	---
	1/25/06	56.86	---	---	3637.72	---	---
	5/1/06	56.69	---	---	3637.89	---	---
	6/26/06	56.66	---	---	3637.92	---	---
	12/18/06	56.40	---	---	3638.18	---	---
	3/16/07	56.28	---	---	3638.30	---	---
	6/26/07	56.29	---	---	3638.29	---	---
	9/27/07	56.59	---	---	3637.99	---	---
	12/13/07	56.51	---	---	3638.07	---	---
	3/6/08	56.56	—	—	3638.02	—	—
	6/4/08	56.38	—	—	3638.20	—	—
	9/4/08	56.49	—	—	3638.09	—	—
	11/13/08	56.40	—	—	3638.18	—	—
MW-8	7/28/98	56.84	---	---	3638.77	66.91	46 - 66
3695.61	6/25/99	56.56	---	---	3639.05	---	---
	2/16/01	56.49	---	---	3639.12	---	---
	6/11/02	56.56	---	---	3639.05	---	---
	11/26/02	56.88	---	---	3638.73	---	---
	6/5/03	56.89	---	---	3638.72	---	---
	12/3/03	56.91	---	---	3638.70	---	---
	7/1/04	56.70	---	---	3638.91	---	---
	12/20/04	56.23	---	---	3639.38	---	---
	6/6/05	55.86	---	---	3639.75	---	---
	12/12/05	55.29	---	---	3640.32	---	---
	1/25/06	55.30	---	---	3640.31	---	---
	5/1/06	55.03	---	---	3640.58	---	---
	6/26/06	54.96	---	---	3640.65	---	---
	12/18/06	54.80	---	---	3640.81	---	---
	3/16/07	54.68	---	---	3640.93	---	---
	6/26/07	54.67	---	---	3640.94	---	---
	9/27/07	54.95	---	---	3640.66	---	---
	12/13/07	54.82	---	---	3640.79	---	---
	3/6/08	54.82	—	—	3640.79	—	—
	6/4/08	54.70	—	—	3640.91	—	—
	9/4/08	54.77	—	—	3640.84	—	—
	11/13/08	54.73	—	—	3640.88	—	—

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LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-1	11/3/99	62.17	---	---	3637.75	71.60	55 - 75
3699.92	2/16/01	62.37	62.33	0.04	3637.59	---	---
	6/11/02	62.26	61.86	0.40	3638.01	---	---
	11/26/02	62.60	62.07	0.53	3637.79	---	---
	6/5/03	63.00	62.84	0.16	3637.06	---	---
	12/3/03	63.26	62.61	0.65	3637.23	---	---
	7/1/04	63.10	62.33	0.77	3637.50	---	---
	12/20/04	61.80	60.96	0.84	3638.86	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	61.44	58.67	2.77	3640.92	---	---
	5/1/06	61.56	58.38	3.18	3641.16	---	---
	6/26/06	61.59	58.43	3.16	3641.11	---	---
	11/21/06	59.87	58.72	1.15	3641.06	---	---
	11/28/06	Installed skimmer pump system					
	11/28/06	60.96	58.32	2.64	3641.28	---	---
	12/4/06	60.35	58.30	2.05	3641.37	---	---
	12/15/06	58.75	58.48	0.27	3641.41	---	---
	12/18/06	58.78	58.55	0.23	3641.34	---	---
	1/5/07	60.54	58.19	2.35	3641.49	---	---
	2/2/07	59.00	58.51	0.49	3641.36	---	---
	2/9/07	58.52	58.36	0.16	3641.54	---	---
	2/23/07	58.62	58.25	0.37	3641.63	---	---
	3/2/07	59.78	58.18	1.60	3641.58	---	---
	3/8/07	58.55	58.23	0.32	3641.66	---	---
	3/16/07	58.74	58.30	0.44	3641.57	---	---
	3/23/07	58.81	58.31	0.50	3641.56	---	---
	3/28/07	58.48	58.24	0.24	3641.66	---	---
	4/4/07	58.69	58.48	0.21	3641.42	---	---
	5/23/07	58.95	58.48	0.47	3641.39	---	---
	6/20/07	59.09	58.50	0.59	3641.36	---	---
	6/26/07	58.52	58.37	0.15	3641.53	---	---
	7/2/07	58.69	58.29	0.40	3641.59	---	---
	9/13/07	60.18	58.66	1.52	3641.10	---	---
	9/17/07	59.18	58.65	0.53	3641.22	---	---
	9/27/07	59.40	58.72	0.68	3641.13	---	---
	11/16/07	58.52	58.35	0.17	3641.55	---	---
	12/13/07	60.90	58.44	2.46	3641.23	---	---
	3/6/08	59.24	58.76	0.48	3641.11	—	—
	4/1/08	59.27	58.70	0.57	3641.16	—	—
	5/6/08	59.31	58.73	0.58	3641.13	—	—
	6/4/08	59.37	58.59	0.78	3641.25	—	—
	6/25/08	58.51	58.40	0.11	3641.51	—	—
	7/15/08	58.92	58.46	0.46	3641.41	—	—
	8/19/08	58.80	58.52	0.28	3641.37	—	—
	9/4/08	58.82	58.51	0.31	3641.38	—	—
	9/15/08	60.56	58.43	2.13	3641.27	—	—
	10/1/08	60.38	58.45	1.93	3641.27	—	—
	10/16/08	60.80	58.41	2.39	3641.26	—	—
	11/13/08	60.59	58.10	2.49	3641.56	—	—
	12/17/08	60.48	58.47	2.01	3641.24	—	—

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
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RW-2	10/14/99	53.28	---	---	3638.84	67.55	47 - 67
3692.12	11/3/99	53.95	---	---	3638.17	---	---
	2/16/01	54.01	---	---	3638.11	---	---
	6/11/02	54.01	53.98	0.03	3638.14	---	---
	11/26/02	54.28	54.07	0.21	3638.02	---	---
	6/5/03	53.24	53.23	0.01	3638.89	---	---
	12/3/03	54.51	54.38	0.13	3637.72	---	---
	7/1/04	54.51	54.12	0.39	3637.95	---	---
	12/20/04	53.69	53.52	0.17	3638.58	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	51.55	51.14	0.41	3640.93	---	---
	5/1/06	51.34	50.91	0.43	3641.16	---	---
	6/26/06	51.02	50.94	0.08	3641.17	---	---
	11/28/06	Absorbant sock installed in well					
	12/18/06	51.15	50.75	0.40	3641.32	---	---
	1/12/07	50.89	50.63	0.26	3641.46	---	---
	1/15/07	50.20	---	---	3641.92	---	---
	2/2/07	50.72	---	---	3641.40	---	---
	2/9/07	50.60	---	---	3641.52	---	---
	2/23/07	50.54	---	---	3641.58	---	---
	3/2/07	50.60	---	---	3641.52	---	---
	3/8/07	50.61	---	---	3641.51	---	---
	3/16/07	50.69	---	---	3641.43	---	---
	3/23/07	50.67	---	---	3641.45	---	---
	3/28/07	50.54	---	---	3641.58	---	---
	4/4/07	50.66	---	---	3641.46	---	---
	4/12/07	50.62	---	---	3641.50	---	---
	4/19/07	50.61	---	---	3641.51	---	---
	4/25/07	50.80	---	---	3641.32	---	---
	5/1/07	50.80	---	---	3641.32	---	---
	5/8/07	50.73	---	---	3641.39	---	---
	5/23/07	50.74	---	---	3641.38	---	---
	5/29/07	50.70	---	---	3641.42	---	---
	6/5/07	50.68	---	---	3641.44	---	---
	6/14/07	50.66	---	---	3641.46	---	---
	6/20/07	50.72	---	---	3641.40	---	---
	6/26/07	50.63	---	---	3641.49	---	---
	7/2/07	50.59	---	---	3641.53	---	---
	7/13/07	50.60	---	---	3641.52	---	---
	7/20/07	50.61	---	---	3641.51	---	---
	7/27/07	50.65	—	---	3641.47	---	---
	8/14/07	50.83	—	—	3641.29	—	—
	8/22/07	50.96	---	---	3641.16	---	---
	9/4/07	50.88	---	---	3641.24	---	---
	9/13/07	50.49	---	---	3641.63	---	---
	9/17/07	50.92	---	---	3641.20	---	---
	9/27/07	51.00	---	---	3641.12	---	---
	10/4/07	50.92	---	---	3641.20	---	---
	10/11/07	50.87	---	---	3641.25	---	---
	11/2/07	50.79	---	---	3641.33	---	---
	11/16/07	50.65	---	---	3641.47	---	---

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
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LEA COUNTY, NEW MEXICO

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RW-2	11/20/07	50.73	---	---	3641.39	---	---
3692.12	12/13/07	50.92	---	---	3641.20	---	---
	1/2/08	50.91	---	---	3641.21	---	---
	3/6/08	50.90	—	—	3641.22	—	—
	3/11/08	50.77	—	—	3641.35	—	—
	3/17/08	50.83	—	—	3641.29	—	—
	3/25/08	50.75	—	—	3641.37	—	—
	4/1/08	50.74	—	—	3641.38	—	—
	4/9/08	50.70	—	—	3641.42	—	—
	4/15/08	50.68	—	—	3641.44	—	—
	4/23/08	50.69	—	—	3641.43	—	—
	4/28/08	50.67	—	—	3641.45	—	—
	5/6/08	50.72	—	—	3641.40	—	—
	5/23/08	50.75	—	—	3641.37	—	—
	5/29/08	50.68	—	—	3641.44	—	—
	6/4/08	50.65	—	—	3641.47	—	—
	6/12/08	50.68	—	—	3641.44	—	—
	6/18/08	50.64	—	—	3641.48	—	—
	6/25/08	50.60	—	—	3641.52	—	—
	6/30/08	50.61	—	—	3641.51	—	—
	7/7/08	50.66	—	—	3641.46	—	—
	7/15/08	50.63	—	—	3641.49	—	—
	7/21/08	50.59	—	—	3641.53	—	—
	7/31/08	50.63	—	---	3641.49	—	—
	8/4/08	50.59	—	---	3641.53	—	—
	8/10/08	50.53	—	---	3641.59	—	—
	8/19/08	50.70	—	---	3641.42	—	—
	8/26/08	50.71	—	---	3641.41	—	—
	9/4/08	50.73	—	---	3641.39	—	—
	9/10/08	50.72	—	---	3641.40	—	—
	9/15/08	50.84	—	---	3641.28	—	—
	9/23/08	50.84	—	---	3641.28	—	—
	10/1/08	50.85	—	---	3641.27	—	—
	10/6/08	50.85	—	---	3641.27	—	—
	10/16/08	50.85	—	---	3641.27	—	—
	10/21/08	50.75	—	—	3641.37	—	—
	10/28/08	50.75	—	—	3641.37	—	—
	11/13/08	50.67	—	—	3641.45	—	—
	11/19/08	50.69	—	—	3641.43	—	—
	11/25/08	50.76	—	—	3641.36	—	—
	12/3/08	50.85	—	—	3641.27	—	—
	12/9/08	50.98	—	—	3641.14	—	—
	12/17/08	50.93	—	—	3641.19	—	—

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RW-3	10/14/99	45.82	---	---	3645.04	68.65	47 - 67
3690.86	11/3/99	52.82	---	---	3638.04	---	---
	2/16/01	52.88	---	---	3637.98	---	---
	6/11/02	52.91	---	---	3637.95	---	---
	11/26/02	53.22	53.15	0.07	3637.70	---	---
	6/5/03	54.56	54.40	0.16	3636.44	---	---
	12/3/03	53.23	---	---	3637.63	---	---
	7/1/04	53.19	52.98	0.21	3637.85	---	---
	12/20/04	52.50	52.09	0.41	3638.72	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	50.71	---	---	3640.15	---	---
	5/1/06	50.49	---	---	3640.37	---	---
	6/26/06	50.50	---	---	3640.36	---	---
	11/28/06	Absorbant sock installed in well					
	12/18/06	50.31	---	---	3640.55	---	---
	1/12/07	50.17	---	---	3640.69	---	---
	1/15/07	50.21	50.20	0.01	3640.66	---	---
	2/2/07	50.23	---	---	3640.63	---	---
	2/9/07	50.13	---	---	3640.73	---	---
	2/23/07	50.03	---	---	3640.83	---	---
	3/2/07	50.12	---	---	3640.74	---	---
	3/8/07	50.14	---	---	3640.72	---	---
	3/16/07	50.22	---	---	3640.64	---	---
	3/23/07	50.20	---	---	3640.66	---	---
	3/28/07	50.08	---	---	3640.78	---	---
	4/4/07	50.18	---	---	3640.68	---	---
	4/12/07	50.14	---	---	3640.72	---	---
	4/19/07	50.13	---	---	3640.73	---	---
	4/25/07	50.28	---	---	3640.58	---	---
	5/1/07	50.29	---	---	3640.57	---	---
	5/8/07	50.24	---	---	3640.62	---	---
	5/23/07	50.23	---	---	3640.63	---	---
	5/29/07	50.21	---	---	3640.65	---	---
	6/5/07	50.19	---	---	3640.67	---	---
	6/14/07	50.18	---	---	3640.68	---	---
	6/20/07	50.26	---	---	3640.60	---	---
	6/26/07	50.15	---	---	3640.71	---	---
	7/2/07	50.11	---	---	3640.75	---	---
	7/13/07	50.14	---	---	3640.72	---	---
	7/20/07	50.11	---	---	3640.75	---	---
	7/27/07	50.17	---	---	3640.69	---	---
	8/14/07	50.37	---	---	3640.49	---	---
	8/22/07	50.45	---	---	3640.41	---	---
	9/4/07	50.36	---	---	3640.50	---	---
	9/13/07	50.44	---	---	3640.42	---	---
	9/17/07	50.44	---	---	3640.42	---	---
	9/27/07	50.49	---	---	3640.37	---	---
	10/4/07	50.42	---	---	3640.44	---	---
	10/11/07	50.39	---	---	3640.47	---	---
	11/2/07	50.31	---	---	3640.55	---	---
	11/16/07	50.19	---	---	3640.67	---	---

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GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-3	11/20/07	50.27	---	---	3640.59	---	---
3690.86	12/13/07	52.38	---	---	3638.48	---	---
	1/2/08	52.35	---	---	3638.51	---	---
	3/6/08	50.42	—	—	3640.44	—	—
	3/11/08	50.32	—	—	3640.54	—	—
	3/17/08	50.39	—	—	3640.47	—	—
	3/25/08	50.27	—	—	3640.59	—	—
	4/1/08	50.25	—	—	3640.61	—	—
	4/9/08	50.22	—	—	3640.64	—	—
	4/15/08	50.22	—	—	3640.64	—	—
	4/23/08	50.24	—	—	3640.62	—	—
	4/28/08	50.25	—	—	3640.61	—	—
	5/6/08	50.22	—	—	3640.64	—	—
	5/23/08	50.29	—	—	3640.57	—	—
	5/29/08	50.36	—	—	3640.50	—	—
	6/4/08	50.32	—	—	3640.54	—	—
	6/12/08	50.23	—	—	3640.63	—	—
	6/18/08	50.19	—	—	3640.67	—	—
	6/25/08	50.18	—	—	3640.68	—	—
	6/30/08	50.17	—	—	3640.69	—	—
	7/7/08	50.21	—	—	3640.65	—	—
	7/15/08	50.19	—	—	3640.67	—	—
	7/21/08	50.05	—	—	3640.81	—	—
	7/31/08	50.20	—	---	3640.66	—	—
	8/4/08	50.21	—	---	3640.65	—	—
	8/10/08	50.19	—	---	3640.67	—	—
	8/19/08	50.23	—	---	3640.63	—	—
	8/26/08	50.24	—	---	3640.62	—	—
	9/4/08	50.90	—	---	3639.96	—	—
	9/10/08	50.20	—	---	3640.66	—	—
	9/15/08	50.38	—	---	3640.48	—	—
	9/23/08	50.32	—	---	3640.54	—	—
	10/1/08	50.34	—	---	3640.52	—	—
	10/6/08	50.41	—	—	3640.45	—	—
	10/16/08	50.39	—	---	3640.47	—	—
	10/21/08	50.29	—	—	3640.57	—	—
	10/28/08	50.33	—	—	3640.53	—	—
	11/13/08	50.15	—	---	3640.71	—	—
	11/19/08	50.17	—	—	3640.69	—	—
	11/25/08	50.33	—	—	3640.53	—	—
	12/3/08	50.40	—	—	3640.46	—	—
	12/9/08	50.50	—	—	3640.36	—	—
	12/17/08	50.48	—	—	3640.38	—	—

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
WW-1	6/11/02	66.35	---	---	3637.82	Unknown	Unknown
3704.17	6/5/03	68.25	---	---	3635.92	---	---
						---	---
WW-2	6/11/02	66.18	---	---	3637.66	Unknown	Unknown
3703.84	11/26/02	66.18	---	---	3637.66	---	---
	6/5/03	68.54	---	---	3635.30	---	---

Notes:

1. Data through June 6, 2005 provided by Larson & Associates, Inc.
2. TOC - Top of Casing.
3. MSL - Mean Sea Level.
4. bgs - Below ground surface.
5. Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88.
6. Corrected groundwater elevations from January 2007 to December 2007 were calculated using LNAPL specific gravity of 0.897.
7. MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999.
8. Monitor wells (MWs) are 2-inch in diameter; Recovery wells (RWs) are 4-inch in diameter.

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard		0.01	0.75	0.75	0.62	250
MW-3	7/28/98	**0.003**	<0.001	<0.001	**0.002**	**36.0**
	2/16/01	<0.005	<0.005	<0.005	<0.005	**31**
	6/12/02	<0.005	<0.005	<0.005	<0.005	**27.1**
	11/26/03	<0.001	<0.001	<0.001	<0.001	**31.9**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**27.5**
	12/4/03	<0.001	<0.001	<0.001	**0.0017**	**26.1**
	7/2/04	<0.005	<0.005	<0.005	<0.005	**28.0**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**32.3**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**34.3**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**29.3**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**31.1**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**28.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**31**
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	**30.9**
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	**29.5**
DUP	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**32**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**32**
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	**94.0**
	2/16/01	<0.005	<0.005	<0.005	**0.008**	**170**
	6/12/02	<0.005	<0.005	<0.005	<0.005	**85.6**
	11/26/03	**0.002**	<0.001	<0.001	<0.005	**160.0**
	6/6/03	<0.001	<0.001	<0.001	**0.0026**	**111.0**
	12/4/03	**0.0015**	<0.001	<0.001	<0.001	**104.0**
	7/2/04	<0.001	<0.001	<0.001	<0.001	**72.4**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**59.7**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**58.4**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**55.3**
	6/27/06	**0.000597**	<0.000500	<0.000500	<0.001	**48.8**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**34.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**39**
	12/13/07	0.000968	<0.000500	<0.000500	0.00254	**63.1**
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	**61.0**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**52**
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	**360.0**
	2/16/01	<0.005	<0.005	<0.005	<0.005	**120**
	6/12/02	<0.005	<0.005	<0.005	<0.005	**90.2**
	11/26/03	**0.002**	<0.001	**0.003**	<0.002	**59.1**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**48.6**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**36.5**
	7/2/04	<0.005	<0.005	<0.005	<0.005	**32.9**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**39.8**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**41.1**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**39.7**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**43.2**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**51.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**67**
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	**101**
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**78.7**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**100**

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard		**0.01**	**0.75**	**0.75**	**0.62**	**250**
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	**43.0**
	2/16/01	<0.005	<0.005	**0.006**	**0.006**	**52**
	6/12/02	<0.001	<0.001	<0.001	<0.001	**54.1**
	11/26/03	<0.001	<0.001	<0.001	<0.002	**65.0**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**43.7**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**45.3**
	7/2/04	<0.001	<0.001	<0.001	<0.001	**57.5**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**61.3**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**66.7**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**80.9**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**86.4**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**88.0**
	3/16/07	<0.000500	<0.000500	<0.000500	<0.001	**92.2**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**110**
	9/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**99.5**
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	**99.2**
	3/6/08	<0.000370	<0.000390	<0.000420	<0.000350	**88.8**
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**117**
	9/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**130**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**130**
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	**82.0**
	2/16/01	<0.005	<0.005	<0.005	<0.005	**150**
	6/12/02	<0.005	<0.005	<0.005	<0.005	**96.7**
	11/26/03	<0.001	<0.001	<0.001	<0.002	**133.0**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**199.0**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**230.0**
	7/2/04	<0.001	<0.001	<0.001	<0.001	**215.0**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**274.0**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**221.0**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**204.0**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**158.0**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**130.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**110**
	12/13/07	<0.000500	<0.000500	<0.000500	<0.00100	**135**
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	**72.4**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**66**
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	**29.0**
	2/16/01	<0.005	<0.005	<0.005	<0.005	**94**
	6/12/02	<0.005	<0.005	<0.005	<0.005	**180.0**
	11/26/03	<0.001	<0.001	<0.001	<0.002	**239.0**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**244.0**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**251.0**
	7/2/04	<0.005	<0.005	<0.005	<0.005	**206.0**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**244.0**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**227.0**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**144.0**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**92.6**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**83.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**79**
	12/13/07	<0.000500	<0.000500	<0.000500	<0.00100	**82.9**
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**54.9**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**47**

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard		0.01	0.75	0.75	0.62	250
WW-1	7/28/98	<0.001	<0.001	<0.001	<0.001	**100.0**
	6/12/02	<0.001	<0.001	<0.001	<0.001	**43.6**
	11/26/02	<0.001	<0.001	<0.001	<0.002	**80.0**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**73.4**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**65.3**
	7/2/04	<0.001	<0.001	<0.001	<0.001	**66.5**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**74.3**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**63.4**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**41.1**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**50.0**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**80.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**52**
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	**59.8**
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**64.1**
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**64.4**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**73**
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	**53.7**
	11/26/02	<0.001	<0.001	<0.001	<0.002	**70.9**
	6/6/03	<0.001	<0.001	<0.001	<0.001	**71.1**
	12/4/03	<0.001	<0.001	<0.001	<0.001	**52.4**
	7/2/04	<0.001	<0.001	<0.001	<0.001	**51.0**
	12/21/04	<0.005	<0.005	<0.005	<0.005	**55.6**
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	**55.3**
	12/13/05	<0.005	<0.005	<0.005	<0.010	**75.3**
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	**69.7**
	12/19/06	<0.005	<0.005	<0.005	<0.001	**57.0**
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	**46**
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	**83.1**
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	**65.9**
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	**73**
RW-1	6/5/08	**0.0119**	<0.0039	<0.0042	<0.0035	**36.2**
RW-2	6/27/07	**0.00287**	<0.0025	<0.00250	**0.0303**	**60**
	6/5/08	<0.0037	<0.0039	<0.0042	<0.0035	**51.1**
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	**25.9**
	12/3/04	<0.001	<0.001	<0.001	<0.001	**36.6**
	6/27/07	**0.00855**	<0.00250	**0.0122**	**0.0270**	**130**
	6/5/08	<0.0037	<0.0039	<0.0042	**0.0129**	**90.6**

Notes:

1. Result shown in mg/L.
2. Data through June 6, 2005 provided by Larson & Associates, Inc.
3. Bold indicates detection above method detection limit.
4. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.

TestAmerica

ANALYTICAL REPORT

JOB NUMBER: 351184
Project ID: NM F STATE

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79703

Attention: Todd Wells

Date: 03/18/2008

Signature

03/18/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 18

S A M P L E I N F O R M A T I O N

Date: 03/18/2008

Job Number.: 351184
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: NM F STATE
Project Description....: NM F State

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
351184-1	MW-6	Water	03/06/2008	12:30	03/12/2008	09:12

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 351184 Date:03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN: Todd Wells

Customer Sample ID: MW-6
Date Sampled.....: 03/06/2008
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 351184-1
Date Received.....: 03/12/2008
Time Received.....: 09:12

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	195872		03/13/08 1654	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	88.8			1.5	5.0	10	mg/L	195625		03/12/08 1925	sur

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: mht
Method Description.: GC Volatile Organics Batch(s)...: 195872

LCS	Laboratory Control Sample	BXS030308B	195872-1		03/13/2008	1100

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	56.7396		50.000000		113.5		76-123	
Benzene, Water	50.8372		50.000000		101.7		72-134	
Toluene, Water	50.0202		50.000000		100.0		76-131	
Ethylbenzene, Water	48.7265		50.000000		97.5		75-131	
m,p-Xylene, Water	99.6225		100.000000		99.6		75-130	
o-Xylene, Water	49.3907		50.000000		98.8		74-129	
Xylenes (total), Water	152.5062		150.000000		101.7		70-130	
Total BTEX, Water	304.4532		300.000000		101.5		70-130	
Tert-Butyl Methyl Ether Column B, Water	47.4685		50.000000		94.9		76-123	
Benzene Column B, Water	49.7640		50.000000		99.5		72-134	
Toluene Column B, Water	51.1140		50.000000		102.2		76-131	
Ethylbenzene Column B, Water	49.9958		50.000000		100.0		75-131	
m,p-Xylene Column B, Water	101.213		100.000000		101.2		75-130	
o-Xylene Column B, Water	51.2932		50.000000		102.6		74-129	

LCS	Laboratory Control Sample	BXS030308B	195872-2		03/13/2008	2356

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	57.6808		50.000000		115.4		76-123	
Benzene, Water	47.6197		50.000000		95.2		72-134	
Toluene, Water	45.7468		50.000000		91.5		76-131	
Ethylbenzene, Water	41.7313		50.000000		83.5		75-131	
m,p-Xylene, Water	93.3938		100.000000		93.4		75-130	
o-Xylene, Water	45.5969		50.000000		91.2		74-129	
Xylenes (total), Water	138.9907		150.000000		92.7		70-130	
Total BTEX, Water	276.4859		300.000000		92.2		70-130	
Tert-Butyl Methyl Ether Column B, Water	52.0968		50.000000		104.2		76-123	
Benzene Column B, Water	46.7335		50.000000		93.5		72-134	
Toluene Column B, Water	45.2406		50.000000		90.5		76-131	
Ethylbenzene Column B, Water	44.1287		50.000000		88.3		75-131	
m,p-Xylene Column B, Water	90.3578		100.000000		90.4		75-130	
o-Xylene Column B, Water	45.0187		50.000000		90.0		74-129	

MB	Method Blank		195872-1		03/13/2008	1221

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	ND							
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		195872-1		03/13/2008	1221

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		195872-2		03/14/2008	0016

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	ND							
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS030308A	351057-1		03/13/2008	1734

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	40.2705		50.000000	ND	81		70-130	
Benzene, Water	45.0368		50.000000	ND	90		70-130	
Toluene, Water	44.0402		50.000000	ND	88		70-130	
Ethylbenzene, Water	42.5602		50.000000	ND	85		70-130	
m,p-Xylene, Water	87.9579		100.000000	ND	88		70-130	
o-Xylene, Water	44.4874		50.000000	ND	89		70-130	
Xylenes (total), Water	132.4453		150.000000	0.0000	88		70-130	
Total BTEX, Water	264.2206		300.000000	0.0000	88		70-130	
Tert-Butyl Methyl Ether Column B, Water	47.1122		50.000000	ND	94		70-130	
Benzene Column B, Water	44.0428		50.000000	ND	88		70-130	
Toluene Column B, Water	43.5263		50.000000	ND	87		70-130	
Ethylbenzene Column B, Water	42.6983		50.000000	ND	85		70-130	
m,p-Xylene Column B, Water	85.7569		100.000000	ND	86		70-130	
o-Xylene Column B, Water	43.5141		50.000000	ND	87		70-130	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS030308A	351245-15		03/14/2008	0036

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	54.5705		50.000000	ND	109		70-130	
Benzene, Water	48.8334		50.000000	ND	98		70-130	
Toluene, Water	47.3701		50.000000	ND	95		70-130	
Ethylbenzene, Water	44.5036		50.000000	ND	89		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	BXS030308A	351245-15		03/14/2008 0036

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
m,p-Xylene, Water	95.9658		100.000000	ND	96		70-130	
o-Xylene, Water	46.4686		50.000000	ND	93		70-130	
Xylenes (total), Water	142.9494		150.000000	0.0000	95		70-130	
Total BTEX, Water	285.4081		300.000000	0.0000	95		70-130	
Tert-Butyl Methyl Ether Column B, Water	49.5712		50.000000	ND	99		70-130	
Benzene Column B, Water	47.5684		50.000000	ND	95		70-130	
Toluene Column B, Water	46.8849		50.000000	ND	94		70-130	
Ethylbenzene Column B, Water	46.2552		50.000000	ND	93		70-130	
m,p-Xylene Column B, Water	94.1498		100.000000	ND	94		70-130	
o-Xylene Column B, Water	46.9836		50.000000	ND	94		70-130	

MSD	Matrix Spike Duplicate	BXS030308A	351057-1		03/13/2008 1754

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	53.2442	40.2705	50.000000	ND	106		70-130	
					27.7		20.0	r
Benzene, Water	48.1240	45.0368	50.000000	ND	96		70-130	
					6.6		20.0	
Toluene, Water	47.4418	44.0402	50.000000	ND	95		70-130	
					7.4		20.0	
Ethylbenzene, Water	46.2261	42.5602	50.000000	ND	92		70-130	
					8.3		20.0	
m,p-Xylene, Water	94.9128	87.9579	100.000000	ND	95		70-130	
					7.6		20.0	
o-Xylene, Water	47.3225	44.4874	50.000000	ND	95		70-130	
					6.2		20.0	
Xylenes (total), Water	143.8032	132.4453	150.000000	0.0000	96		70-130	
					8.2		20.0	
Total BTEX, Water	287.5778	264.2206	300.000000	0.0000	96		70-130	
					8.5		20.0	
Tert-Butyl Methyl Ether Column B, Water	50.2009	47.1122	50.000000	ND	100		70-130	
					6.3		20.0	
Benzene Column B, Water	47.8029	44.0428	50.000000	ND	96		70-130	
					8.2		20.0	
Toluene Column B, Water	47.8924	43.5263	50.000000	ND	96		70-130	
					9.6		20.0	
Ethylbenzene Column B, Water	47.7582	42.6983	50.000000	ND	96		70-130	
					11.2		20.0	
m,p-Xylene Column B, Water	95.5917	85.7569	100.000000	ND	96		70-130	
					10.8		20.0	
o-Xylene Column B, Water	48.2115	43.5141	50.000000	ND	96		70-130	
					10.2		20.0	

MSD	Matrix Spike Duplicate	BXS030308A	351245-16		03/14/2008 0056

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	57.6311	54.5705	50.000000	ND	115		70-130	
					5.5		20.0	
Benzene, Water	49.3972	48.8334	50.000000	ND	99		70-130	
					1.1		20.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	BXS030308A	351245-16		03/14/2008	0056

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene, Water	47.9773	47.3701	50.000000	ND	96		70-130	
					1.3		20.0	
Ethylbenzene, Water	44.6060	44.5036	50.000000	ND	89		70-130	
					0.2		20.0	
m,p-Xylene, Water	98.6693	95.9658	100.000000	ND	99		70-130	
					2.8		20.0	
o-Xylene, Water	48.4614	46.4686	50.000000	ND	97		70-130	
					4.2		20.0	
Xylenes (total), Water	147.1307	142.9494	150.000000	0.0000	98		70-130	
					2.9		20.0	
Total BTEX, Water	291.2918	285.4081	300.000000	0.0000	97		70-130	
					2.0		20.0	
Tert-Butyl Methyl Ether Column B, Water	50.1092	49.5712	50.000000	ND	100		70-130	
					1.1		20.0	
Benzene Column B, Water	48.0618	47.5684	50.000000	ND	96		70-130	
					1.0		20.0	
Toluene Column B, Water	47.4435	46.8849	50.000000	ND	95		70-130	
					1.2		20.0	
Ethylbenzene Column B, Water	46.7866	46.2552	50.000000	ND	94		70-130	
					1.1		20.0	
m,p-Xylene Column B, Water	95.3712	94.1498	100.000000	ND	95		70-130	
					1.3		20.0	
o-Xylene Column B, Water	47.5931	46.9836	50.000000	ND	95		70-130	
					1.3		20.0	

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 195625

CCB	Continuing Calibration Blank				03/12/2008	1956

Parameter/Test Description	QC Result
Bromide (Br)	0
Chloride	0
Fluoride (F)	0
Nitrogen, Nitrate as N (NO3-N)	0
Sulfate (SO4)	0
Nitrogen, Nitrite as N (NO2-N)	0
Nitrate + Nitrite as N	0.000

CCB	Continuing Calibration Blank				03/12/2008	2304

Parameter/Test Description	QC Result
Bromide (Br)	0
Chloride	0
Fluoride (F)	0.2081
Nitrogen, Nitrate as N (NO3-N)	0
Sulfate (SO4)	0
Nitrogen, Nitrite as N (NO2-N)	0
Nitrate + Nitrite as N	0.000

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCB	Continuing Calibration Blank				03/13/2008 0108

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0.1919							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS48345			03/12/2008 1941

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.357		20.00		101.8		90.0-110.0	
Chloride	20.466		20.00		102.3		90.0-110.0	
Fluoride (F)	9.8895		10.00		98.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.585		10.0		105.8		90.0-110.0	
Sulfate (SO4)	20.416		20.00		102.1		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7826		10.0		97.8		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS48345			03/12/2008 2248

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.480		20.00		102.4		90.0-110.0	
Chloride	20.515		20.00		102.6		90.0-110.0	
Fluoride (F)	9.8956		10.00		99.0		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.703		10.0		107.0		90.0-110.0	
Sulfate (SO4)	20.667		20.00		103.3		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7977		10.0		98.0		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS48345			03/13/2008 0053

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.593		20.00		103.0		90.0-110.0	
Chloride	20.600		20.00		103.0		90.0-110.0	
Fluoride (F)	10.403		10.00		104.0		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.658		10.0		106.6		90.0-110.0	
Sulfate (SO4)	20.318		20.00		101.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8252		10.0		98.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
DU	Method Duplicate		351226-1	10	03/12/2008 2217

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	20.737			20.946	1.0		20	
Fluoride (F), Water	0.2206			0.1912	0.0294		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	28.329			28.510	0.6		20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		351226-1	10	03/12/2008	2217

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	
Nitrate + Nitrite as N, Water	0.000			0.000	0.000		0.400	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		351229-1	10	03/12/2008	2350

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0.0805			0.0653	0.0152		0.6000	
Chloride, Water	21.118			21.130	0.1		20	
Fluoride (F), Water	0.2007			0.2000	0.0007		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	28.815			28.938	0.4		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	
Nitrate + Nitrite as N, Water	0.000			0.000	0.000		0.400	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				03/12/2008	1649

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS48345			03/12/2008	1634

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.745		20.00		98.7		90.0-110.0	
Chloride	19.843		20.00		99.2		90.0-110.0	
Fluoride (F)	9.2220		10.00		92.2		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.288		10.0		102.9		90.0-110.0	
Sulfate (SO4)	19.740		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.4498		10.0		94.5		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS48345			03/12/2008	1720

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.412		20.00		102.1		90.0-110.0	
Chloride	20.481		20.00		102.4		90.0-110.0	
Fluoride (F)	9.5418		10.00		95.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.662		10.0		106.6		90.0-110.0	
Sulfate (SO4)	20.771		20.00		103.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8204		10.0		98.2		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MB	Method Blank				03/12/2008 1705

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS47724	351226-1	10	03/12/2008 2233

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7280		10.000000	0	97.3		90-110	
Chloride, Water	30.586		10.000000	20.946	96.4		90-110	
Fluoride (F), Water	1.6201		2.000000	0.1912	71.4		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	1.9815		2.000000	0	99.1		90-110	
Sulfate (SO4), Water	37.103		10.000000	28.510	85.9		90-110	A
Nitrogen, Nitrite as N (NO2-N), Water	1.8747		2.000000	0	93.7		90-110	
Nitrate + Nitrite as N, Water	3.856		0.000000	0.000				

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS47724	351229-1	10	03/13/2008 0006

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7507		10.000000	0.0653	96.9		90-110	
Chloride, Water	30.454		10.000000	21.130	93.2		90-110	
Fluoride (F), Water	1.6713		2.000000	0.2000	73.6		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	1.9507		2.000000	0	97.5		90-110	
Sulfate (SO4), Water	36.978		10.000000	28.938	80.4		90-110	A
Nitrogen, Nitrite as N (NO2-N), Water	1.8292		2.000000	0	91.5		90-110	
Nitrate + Nitrite as N, Water	3.780		0.000000	0.000				

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 351184 Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN: Todd Wells

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 195872 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
195872- 1	LCS		03/13/2008	101.2	100.0	103.5	106.3
195872- 1	MB		03/13/2008	105.8	106.3	113.6	110.8
195872- 2	LCS		03/13/2008	89.1	88.2	92.1	87.6
195872- 2	MB		03/14/2008	92.8	92.7	94.4	91.0
351057- 1	MS	OUTFALL 001	03/13/2008	88.9	89.0	91.5	86.3
351057- 1	MSD	OUTFALL 001	03/13/2008	89.3	89.7	89.5	88.3
351184- 1		MW-6	03/13/2008	92.0	92.3	92.6	90.5
351245- 15	MS	OW-5 MS	03/14/2008	89.1	88.0	87.6	87.6
351245- 16	MSD	OW-5 MSD	03/14/2008	87.2	86.6	90.3	85.7

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/18/2008

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

L A B O R A T O R Y C H R O N I C L E

Job Number: 351184 Date: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: NM F STATE ATTN: Todd Wells

Lab ID: 351184-1 Client ID: MW-6 Date Recvd: 03/12/2008 Sample Date: 03/06/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8021B	GC Volatile Organics	1	195872		03/13/2008	1654	1.0000
EPA 300.0	Ion Chromatography Analysis	1	195625		03/12/2008	1925	10

#351184

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: CRA Client #: _____
Address: 2135 S. Loop 250 West
City/State/Zip Code: Midland, TX 79703
Project Manager: Todd Wells
Telephone Number: (432) 686-0286 Fax: (432) 686-0186
Sampler Name: (Print Name) Todd Wells
Sampler Signature: Todd Wells

Project Name: NM F State
Project #: 039122
Site/Location ID: Lea County State: NM
Report To: Todd Wells
Invoice To: Art Greeley
Quote #: _____ PO#: 4011413

TAT: 1 Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other
Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)
Analyze For: BTEX 8021B; Chloride 300
QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX 8021B	Chloride 300	REMARKS
MW-6	3/6/08	1230			GW		X				X		X	X	

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

	Date	Time		Date	Time
Relinquished By: Todd Wells	3/11/08	1645	Received By:	3/12/08	912
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TestAmerica

ANALYTICAL REPORT

JOB NUMBER: 355324
Project ID: F STATE NM 039122

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79707

Attention: Todd Wells

Date: 06/18/2008

Signature

06/18/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 18

S A M P L E I N F O R M A T I O N

Date: 06/18/2008

Job Number.: 355324
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: F STATE NM 039122
Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355324-1	RW-1 6508	Water	06/05/2008	15:40	06/10/2008	09:35

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355324

Date:06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: RW-1 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 355324-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	11.9			3.7	10.0	10.000	ug/L	400272		06/11/08 0842	mht
	Toluene, Water	3.9	U		3.9	10.0	10.000	ug/L	400272		06/11/08 0842	mht
	Ethylbenzene, Water	4.2	U		4.2	10.0	10.000	ug/L	400272		06/11/08 0842	mht
	Xylenes (total), Water	3.5	U		3.5	30.0	10.000	ug/L	400272		06/11/08 0842	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	36.2			1.5	5.0	10	mg/L	200312		06/10/08 2245	sur

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: mht
Method Description.: GC Volatile Organics Batch(s)...: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008	1232

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	52.9071		50.000000		105.8		72-134	
Toluene, Water	52.0171		50.000000		104.0		76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4		75-131	
m,p-Xylene, Water	106.131		100.000000		106.1		75-130	
o-Xylene, Water	53.0635		50.000000		106.1		74-129	
Xylenes (total), Water	163.4023		150.000000		108.9		70-130	
Total BTEX, Water	327.2999		300.000000		109.1		70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9		76-123	
Benzene Column B, Water	54.0116		50.000000		108.0		72-134	
Toluene Column B, Water	53.6952		50.000000		107.4		76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8		75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0		75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7		74-129	

MB	Method Blank				06/10/2008	1252

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	55.4717		50.000000	ND	111		70-130	
Toluene, Water	54.0173		50.000000	ND	108		70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111		70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113		70-130	
o-Xylene, Water	54.8266		50.000000	ND	110		70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112		70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111		70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102		70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110		70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109		70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109		70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008 1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108		70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1		06/10/2008 1631

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118		70-130	
					6.3		20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115		70-130	
					6.6		20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121		70-130	
					8.6		20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121		70-130	
					6.8		20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118		70-130	
					7.2		20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120		70-130	
					6.9		20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119		70-130	
					6.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104		70-130	
					2.3		20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116		70-130	
					5.1		20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116		70-130	
					5.8		20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116		70-130	
					6.4		20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115		70-130	
					5.3		20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114		70-130	
					5.2		20.0	

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 200312

CCB	Continuing Calibration Blank				06/10/2008 1716

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Q U A L I T Y C O N T R O L R E S U L T S

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2009

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.1956							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0240

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0516

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.092		20.00		100.5		90.0-110.0	
Chloride	19.980		20.00		99.9		90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008 1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.932		20.00		99.7		90.0-110.0	
Fluoride (F)	10.044		10.00		100.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/10/2008 2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.964		20.00		99.8		90.0-110.0	
Chloride	19.926		20.00		99.6		90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0224

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.956		20.00		99.8		90.0-110.0	
Chloride	19.811		20.00		99.1		90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1		90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0501

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.889		20.00		99.4		90.0-110.0	
Chloride	19.799		20.00		99.0		90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7		90.0-110.0	

DU	Method Duplicate		355303-2	10	06/10/2008 2158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.8915			3.9842	2.4		20	
Fluoride (F), Water	0.9210			0.9245	0.0035		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	5.7625			5.8532	1.6		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355325-3	10	06/11/2008	0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0435	0.0435		0.6000	
Chloride, Water	7.8773			7.8652	0.2		20	
Fluoride (F), Water	0.1402			0.1405	0.0003		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037		0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355328-1	10	06/11/2008	0342

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0393	0.0393		0.6000	
Chloride, Water	9.0189			9.0594	0.4		20	
Fluoride (F), Water	0.1389			0.1331	0.0058		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088		0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355201-1		06/11/2008	0429

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	0			0.0657	0.0657		0.6000	
Chloride, Soil	7.8755			8.0272	1.9		20	
Fluoride (F), Soil	0.7060			0.7115	0.0055		0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010		0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9		20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				06/10/2008	1424

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.547		20.00		97.7		90.0-110.0	
Chloride	19.512		20.00		97.6		90.0-110.0	
Fluoride (F)	10.166		10.00		101.7		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2		90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008 1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

LCS	Laboratory Control Sample	WCS49721			06/10/2008 2040

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.029		20.00		100.1		90.0-110.0	
Chloride	19.803		20.00		99.0		90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4		90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9		90.0-110.0	

MB	Method Blank				06/10/2008 1440

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MB	Method Blank				06/10/2008 2024

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2058							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MS	Matrix Spike	WCS49722	355303-2	10	06/10/2008 2214

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5		90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1		90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9		90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008 0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008 0358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355201-1		06/11/2008 0445

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 355324 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 400272 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355324- 1		RW-1 6508	06/11/2008	104.0	98.1	103.2	94.8
355325- 1	MS	MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1	MSD	MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

L A B O R A T O R Y C H R O N I C L E

Job Number: 355324 Date: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Lab ID: 355324-1 Client ID: RW-1 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/11/2008 0842	10.000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/10/2008 2245	10

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#355324

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
CRA	Todd Wells	6/9/08	084213
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page**
2135 S. Loop 250 West	(432) 686-0086 (432) 686-0186	Houston	1 of 1
City / State / Zip Code	**Site Contact / Lab Contact**	**Analysis (Attach list if more space is needed)**	
Midland / TX / 79703	Todd Wells / Sachin Kudchadar	BTEX 8021B; Chloride 300	
Project Name and Location (State)	**Carrier/Waybill Number**		
#03922 F-State NM			
Contract/Purchase Order/Quote No.			
4011413			

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	Ice	BTEX 8021B	Chloride 300
RW-1 6508	6/5/08	1540		X						X			X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Todd Wells	6/9/08	1630	Clark	6/10/08	9.35
2.						
3.						

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

ANALYTICAL REPORT

JOB NUMBER: 355325
Project ID: F STATE NM 039122

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79707

Attention: Todd Wells

Date: 06/18/2008

S Kudchadkar
Signature

06/18/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 26

S A M P L E I N F O R M A T I O N

Date: 06/24/2008

Job Number.: 355325
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: F STATE NM 039122
Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355325-1	MW-3 6508	Water	06/05/2008	13:27	06/10/2008	09:35
355325-2	MW-4 6508	Water	06/05/2008	12:05	06/10/2008	09:35
355325-3	MW-5 6508	Water	06/04/2008	15:10	06/10/2008	09:35
355325-4	MW-6 6508	Water	06/04/2008	14:45	06/10/2008	09:35
355325-5	MW-7 6508	Water	06/05/2008	12:45	06/10/2008	09:35
355325-6	MW-8 6508	Water	06/04/2008	15:30	06/10/2008	09:35
355325-7	WW-1 6508	Water	06/04/2008	13:45	06/10/2008	09:35
355325-8	WW-2 6508	Water	06/04/2008	14:00	06/10/2008	09:35
355325-9	DUP	Water	06/04/2008	00:00	06/10/2008	09:35

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325

Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-3 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 13:27
Sample Matrix.....: Water

Laboratory Sample ID: 355325-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1430	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1430	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1430	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1430	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	29.5			1.5	5.0	10	mg/L	200312		06/10/08 2301	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325

Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-4 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 355325-2
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1451	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	61.0			1.5	5.0	10	mg/L	200312		06/10/08 2316	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325

Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-5 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 15:10
Sample Matrix.....: Water

Laboratory Sample ID: 355325-3
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1511	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1511	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1511	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1511	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	78.7			1.5	5.0	10	mg/L	200312		06/11/08 0003	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325 Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Customer Sample ID: MW-6 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 14:45
Sample Matrix.....: Water

Laboratory Sample ID: 355325-4
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1531	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1531	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1531	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1531	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	117			1.5	5.0	10	mg/L	200312		06/11/08 0050	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325

Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-7 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 12:45
Sample Matrix.....: Water

Laboratory Sample ID: 355325-5
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1551	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1551	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1551	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1551	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	72.4			1.5	5.0	10	mg/L	200312		06/11/08 0106	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325

Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-8 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 15:30
Sample Matrix.....: Water

Laboratory Sample ID: 355325-6
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1711	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	54.9			1.5	5.0	10	mg/L	200312		06/11/08 0122	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325 Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Customer Sample ID: WW-1 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID: 355325-7
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1731	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	64.1			1.5	5.0	10	mg/L	200312		06/11/08 0137	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325 Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Customer Sample ID: WW-2 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 355325-8
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1751	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	65.9			1.5	5.0	10	mg/L	200312		06/11/08 0153	sur

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355325 Date:06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Customer Sample ID: DUP
Date Sampled.....: 06/04/2008
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 355325-9
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1811	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	64.4			1.5	5.0	10	mg/L	200312		06/11/08 0209	sur

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: mht
Method Description.: GC Volatile Organics Batch(s)...: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008 1232

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	52.9071		50.000000		105.8		72-134	
Toluene, Water	52.0171		50.000000		104.0		76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4		75-131	
m,p-Xylene, Water	106.131		100.000000		106.1		75-130	
o-Xylene, Water	53.0635		50.000000		106.1		74-129	
Xylenes (total), Water	163.4023		150.000000		108.9		70-130	
Total BTEX, Water	327.2999		300.000000		109.1		70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9		76-123	
Benzene Column B, Water	54.0116		50.000000		108.0		72-134	
Toluene Column B, Water	53.6952		50.000000		107.4		76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8		75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0		75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7		74-129	

MB	Method Blank				06/10/2008 1252

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008 1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	55.4717		50.000000	ND	111		70-130	
Toluene, Water	54.0173		50.000000	ND	108		70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111		70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113		70-130	
o-Xylene, Water	54.8266		50.000000	ND	110		70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112		70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111		70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102		70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110		70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109		70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109		70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008 1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108		70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1		06/10/2008 1631

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118		70-130	
					6.3		20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115		70-130	
					6.6		20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121		70-130	
					8.6		20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121		70-130	
					6.8		20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118		70-130	
					7.2		20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120		70-130	
					6.9		20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119		70-130	
					6.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104		70-130	
					2.3		20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116		70-130	
					5.1		20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116		70-130	
					5.8		20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116		70-130	
					6.4		20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115		70-130	
					5.3		20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114		70-130	
					5.2		20.0	

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 200312

CCB	Continuing Calibration Blank				06/10/2008 1716

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2009

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.1956							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0240

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0516

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.092		20.00		100.5		90.0-110.0	
Chloride	19.980		20.00		99.9		90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008 1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.932		20.00		99.7		90.0-110.0	
Fluoride (F)	10.044		10.00		100.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008 2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.964		20.00		99.8		90.0-110.0	
Chloride	19.926		20.00		99.6		90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0224

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.956		20.00		99.8		90.0-110.0	
Chloride	19.811		20.00		99.1		90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1		90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0501

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.889		20.00		99.4		90.0-110.0	
Chloride	19.799		20.00		99.0		90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
DU	Method Duplicate		355303-2	10	06/10/2008 2158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.8915			3.9842	2.4		20	
Fluoride (F), Water	0.9210			0.9245	0.0035		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	5.7625			5.8532	1.6		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355325-3	10	06/11/2008	0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0435	0.0435		0.6000	
Chloride, Water	7.8773			7.8652	0.2		20	
Fluoride (F), Water	0.1402			0.1405	0.0003		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037		0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355328-1	10	06/11/2008	0342

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0393	0.0393		0.6000	
Chloride, Water	9.0189			9.0594	0.4		20	
Fluoride (F), Water	0.1389			0.1331	0.0058		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088		0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355201-1		06/11/2008	0429

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	0			0.0657	0.0657		0.6000	
Chloride, Soil	7.8755			8.0272	1.9		20	
Fluoride (F), Soil	0.7060			0.7115	0.0055		0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010		0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9		20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				06/10/2008	1424

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.547		20.00		97.7		90.0-110.0	
Chloride	19.512		20.00		97.6		90.0-110.0	
Fluoride (F)	10.166		10.00		101.7		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2		90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008 1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

LCS	Laboratory Control Sample	WCS49721			06/10/2008 2040

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.029		20.00		100.1		90.0-110.0	
Chloride	19.803		20.00		99.0		90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4		90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9		90.0-110.0	

MB	Method Blank				06/10/2008 1440

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MB	Method Blank				06/10/2008 2024

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2058							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MS	Matrix Spike	WCS49722	355303-2	10	06/10/2008 2214

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5		90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1		90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9		90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008 0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008 0358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355201-1		06/11/2008 0445

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SURROGATE RECOVERIES REPORT

Job Number.: 355325 Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 400272 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355325- 1		MW-3 6508	06/10/2008	101.5	101.5	99.9	100.4
355325- 1 MS		MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1 MSD		MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9
355325- 2		MW-4 6508	06/10/2008	100.1	100.0	98.6	97.9
355325- 3		MW-5 6508	06/10/2008	100.6	100.2	101.9	100.4
355325- 4		MW-6 6508	06/10/2008	100.4	100.2	100.7	99.1
355325- 5		MW-7 6508	06/10/2008	100.2	99.9	99.9	98.8
355325- 6		MW-8 6508	06/10/2008	97.5	98.5	100.4	100.3
355325- 7		WW-1 6508	06/10/2008	99.8	100.8	100.8	100.3
355325- 8		WW-2 6508	06/10/2008	98.7	99.9	99.6	99.3
355325- 9		DUP	06/10/2008	100.3	101.2	101.2	100.7

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2008

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

L A B O R A T O R Y C H R O N I C L E

Job Number: 355325 Date: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Lab ID: 355325-1 Client ID: MW-3 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1430	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/10/2008 2301	10

Lab ID: 355325-2 Client ID: MW-4 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1451	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/10/2008 2316	10

Lab ID: 355325-3 Client ID: MW-5 6508 Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1511	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0003	10

Lab ID: 355325-4 Client ID: MW-6 6508 Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1531	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0050	10

Lab ID: 355325-5 Client ID: MW-7 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1551	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0106	10

Lab ID: 355325-6 Client ID: MW-8 6508 Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1711	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0122	10

Lab ID: 355325-7 Client ID: WW-1 6508 Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1731	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0137	10

Lab ID: 355325-8 Client ID: WW-2 6508 Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1751	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0153	10

Lab ID: 355325-9 Client ID: DUP Date Recvd: 06/10/2008 Sample Date: 06/04/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/10/2008 1811	1.0000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0209	10

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

555325

TAL-4124 (1007)

Client: CRA	Project Manager: Todd Wells	Date: 6/9/08	Chain of Custody Number: 077520
Address: 2135 S. Loop 250 West	Telephone Number (Area Code)/Fax Number: (432) 686-0086	Lab Number: Houston	Page 1 of 1
City: Midland / State: TX / Zip Code: 79703	Site Contact: T. Wells	Lab Contact: Sachin Kudchadar	Analysis (Attach list if more space is needed)
Project Name and Location (State): #039122 F-State NM	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 4011413			

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	Ice	BTEX 8021B	Chloride 300	Special Instructions/ Conditions of Receipt
MW-3 6508	6/5/08	1327		X						X			X	X	X	
MW-4 6508	6/5/08	1205		X						X			X	X	X	
MW-5 6408	6/4/08	1510		X						X			X	X	X	
MW-6 6408	6/4/08	1445		X						X			X	X	X	
MW-7 6508	6/5/08	1245		X						X			X	X	X	
MW-8 6408	6/4/08	1530		X						X			X	X	X	
WW-1 6408	6/4/08	1345		X						X			X	X	X	
WW-2 6408	6/4/08	1400		X						X			X	X	X	
Dup	6/4/08	—		X						X			X	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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Todd Wells	6-9-08	1630	1. Received By	6/10/08	930
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

TestAmerica

ANALYTICAL REPORT

JOB NUMBER: 355326
Project ID: F STATE NM 039122

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79707

Attention: Todd Wells

Date: 06/18/2008

Signature

06/18/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 18

S A M P L E I N F O R M A T I O N

Date: 06/18/2008

Job Number.: 355326
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: F STATE NM 039122
Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355326-1	RW-2 6508	Water	06/05/2008	14:15	06/10/2008	09:35

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 355326

Date:06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: RW-2 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 355326-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	3.7	U		3.7	10.0	10.000	ug/L	400272		06/11/08 0902	mht
	Toluene, Water	3.9	U		3.9	10.0	10.000	ug/L	400272		06/11/08 0902	mht
	Ethylbenzene, Water	4.2	U		4.2	10.0	10.000	ug/L	400272		06/11/08 0902	mht
	Xylenes (total), Water	3.5	U		3.5	30.0	10.000	ug/L	400272		06/11/08 0902	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	51.1			1.5	5.0	10	mg/L	200312		06/11/08 0255	sur

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: mht
Method Description.: GC Volatile Organics Batch(s)...: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008 1232

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	52.9071		50.000000		105.8		72-134	
Toluene, Water	52.0171		50.000000		104.0		76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4		75-131	
m,p-Xylene, Water	106.131		100.000000		106.1		75-130	
o-Xylene, Water	53.0635		50.000000		106.1		74-129	
Xylenes (total), Water	163.4023		150.000000		108.9		70-130	
Total BTEX, Water	327.2999		300.000000		109.1		70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9		76-123	
Benzene Column B, Water	54.0116		50.000000		108.0		72-134	
Toluene Column B, Water	53.6952		50.000000		107.4		76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8		75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0		75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7		74-129	

MB	Method Blank				06/10/2008 1252

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008 1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	55.4717		50.000000	ND	111		70-130	
Toluene, Water	54.0173		50.000000	ND	108		70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111		70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113		70-130	
o-Xylene, Water	54.8266		50.000000	ND	110		70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112		70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111		70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102		70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110		70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109		70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109		70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108		70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1		06/10/2008	1631

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118		70-130	
					6.3		20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115		70-130	
					6.6		20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121		70-130	
					8.6		20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121		70-130	
					6.8		20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118		70-130	
					7.2		20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120		70-130	
					6.9		20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119		70-130	
					6.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104		70-130	
					2.3		20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116		70-130	
					5.1		20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116		70-130	
					5.8		20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116		70-130	
					6.4		20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115		70-130	
					5.3		20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114		70-130	
					5.2		20.0	

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 200312

CCB	Continuing Calibration Blank				06/10/2008	1716

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Q U A L I T Y C O N T R O L R E S U L T S

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2009

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.1956							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0240

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0516

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.092		20.00		100.5		90.0-110.0	
Chloride	19.980		20.00		99.9		90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008 1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.932		20.00		99.7		90.0-110.0	
Fluoride (F)	10.044		10.00		100.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/10/2008 2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.964		20.00		99.8		90.0-110.0	
Chloride	19.926		20.00		99.6		90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0224

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.956		20.00		99.8		90.0-110.0	
Chloride	19.811		20.00		99.1		90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1		90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0501

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.889		20.00		99.4		90.0-110.0	
Chloride	19.799		20.00		99.0		90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7		90.0-110.0	

DU	Method Duplicate		355303-2	10	06/10/2008 2158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.8915			3.9842	2.4		20	
Fluoride (F), Water	0.9210			0.9245	0.0035		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	5.7625			5.8532	1.6		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355325-3	10	06/11/2008	0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0435	0.0435		0.6000	
Chloride, Water	7.8773			7.8652	0.2		20	
Fluoride (F), Water	0.1402			0.1405	0.0003		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037		0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355328-1	10	06/11/2008	0342

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0393	0.0393		0.6000	
Chloride, Water	9.0189			9.0594	0.4		20	
Fluoride (F), Water	0.1389			0.1331	0.0058		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088		0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355201-1		06/11/2008	0429

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	0			0.0657	0.0657		0.6000	
Chloride, Soil	7.8755			8.0272	1.9		20	
Fluoride (F), Soil	0.7060			0.7115	0.0055		0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010		0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9		20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				06/10/2008	1424

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.547		20.00		97.7		90.0-110.0	
Chloride	19.512		20.00		97.6		90.0-110.0	
Fluoride (F)	10.166		10.00		101.7		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2		90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008 1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

LCS	Laboratory Control Sample	WCS49721			06/10/2008 2040

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.029		20.00		100.1		90.0-110.0	
Chloride	19.803		20.00		99.0		90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4		90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9		90.0-110.0	

MB	Method Blank				06/10/2008 1440

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MB	Method Blank				06/10/2008 2024

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2058							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MS	Matrix Spike	WCS49722	355303-2	10	06/10/2008 2214

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5		90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1		90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9		90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008 0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008 0358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	WCS49722	355201-1		06/11/2008 0445

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 355326 Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 400272 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355325- 1	MS	MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1	MSD	MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9
355326- 1		RW-2 6508	06/11/2008	111.1	97.1	103.9	95.6

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

L A B O R A T O R Y C H R O N I C L E

Job Number: 355326 Date: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Lab ID: 355326-1 Client ID: RW-2 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/11/2008 0902	10.000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0255	10

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#355326

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client: CRA	Project Manager: Todd Wells	Date: 6/9/08	Chain of Custody Number: 084214
Address: 2135 S. Loop 250 West	Telephone Number (Area Code)/Fax Number: (432) 686-0086	Lab Number: Houston	Page 1 of 1
City: Midland / State: TX / Zip Code: 79703	Site Contact: T. Wells	Lab Contact: Sachin Kudchadar	
Project Name and Location (State): #039122 F-State NM	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 4011413			

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	Ice	Analysis: BTEX 8021B	Chloride 300	Special Instructions/ Conditions of Receipt
RW-2 6508	6/5/08	1415		X						X			X	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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Todd Wells	6/9/08	1630	1. Received By	6/10/08	9:35
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

#039122
CEMC
F-State
Lea County, NM

TestAmerica

ANALYTICAL REPORT

JOB NUMBER: 355328
Project ID: F STATE NM 039122

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79707

Attention: Todd Wells

Date: 06/25/2008

Signature

06/25/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 13

S A M P L E I N F O R M A T I O N

Date: 06/25/2008

Job Number.: 355328
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: F STATE NM 039122
Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355328-1	RW-3 6508	Water	06/05/2008	15:05	06/10/2008	09:35

LABORATORY TEST RESULTS

Job Number: 355328

Date:06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: RW-3 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 355328-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	3.7	U		3.7	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Toluene, Water	3.9	U		3.9	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Ethylbenzene, Water	4.2	U		4.2	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Xylenes (total), Water	12.9	J		3.5	30.0	10.000	ug/L	400275		06/11/08 1656	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	90.6			1.5	5.0	10	mg/L	200312		06/11/08 0327	sur

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: mht
Method Description.: GC Volatile Organics Batch(s)...: 400275

LCS	Laboratory Control Sample	BXS060308B			06/11/2008 1616

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	51.8903		50.000000		103.8		72-134	
Toluene, Water	49.7478		50.000000		99.5		76-131	
Ethylbenzene, Water	46.5604		50.000000		93.1		75-131	
m,p-Xylene, Water	99.9842		100.000000		100.0		75-130	
o-Xylene, Water	49.3855		50.000000		98.8		74-129	
Xylenes (total), Water	149.370		150.000000		99.6		70-130	
Tert-Butyl Methyl Ether Column B, Water	43.1904		50.000000		86.4		76-123	
Benzene Column B, Water	49.5873		50.000000		99.2		72-134	
Toluene Column B, Water	49.2154		50.000000		98.4		76-131	
Ethylbenzene Column B, Water	48.1761		50.000000		96.4		75-131	
m,p-Xylene Column B, Water	99.1782		100.000000		99.2		75-130	
o-Xylene Column B, Water	49.0803		50.000000		98.2		74-129	

MB	Method Blank				06/11/2008 1636

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	ND							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS060308A	355328-1	10.000	06/11/2008 1857

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	54.6798		50.000000	ND	109		70-130	
Toluene, Water	53.2574		50.000000	ND	107		70-130	
Ethylbenzene, Water	45.6111		50.000000	ND	91		70-130	
m,p-Xylene, Water	106.830		100.000000	1.29407	106		70-130	
o-Xylene, Water	51.0168		50.000000	ND	102		70-130	
Xylenes (total), Water	157.846		150.000000	1.29407	104		70-130	
Benzene Column B, Water	51.4058		50.000000	ND	103		70-130	
Toluene Column B, Water	51.0677		50.000000	ND	102		70-130	
Ethylbenzene Column B, Water	49.9320		50.000000	ND	100		70-130	
m,p-Xylene Column B, Water	98.9509		100.000000	0.68723	98		70-130	
o-Xylene Column B, Water	50.4224		50.000000	ND	101		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	BXS060308A	355328-1	10.000	06/11/2008 1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	51.2580	54.6798	50.000000	ND	103		70-130	
					6.5		20.0	
Toluene, Water	49.0201	53.2574	50.000000	ND	98		70-130	
					8.3		20.0	
Ethylbenzene, Water	45.7610	45.6111	50.000000	ND	92		70-130	
					0.3		20.0	
m,p-Xylene, Water	98.9852	106.830	100.000000	1.29407	98		70-130	
					7.6		20.0	
o-Xylene, Water	48.8750	51.0168	50.000000	ND	98		70-130	
					4.3		20.0	
Xylenes (total), Water	147.860	157.846	150.000000	1.29407	98		70-130	
					6.5		20.0	
Benzene Column B, Water	48.3778	51.4058	50.000000	ND	97		70-130	
					6.1		20.0	
Toluene Column B, Water	47.6423	51.0677	50.000000	ND	95		70-130	
					6.9		20.0	
Ethylbenzene Column B, Water	47.0909	49.9320	50.000000	ND	94		70-130	
					5.9		20.0	
m,p-Xylene Column B, Water	93.3735	98.9509	100.000000	0.68723	93		70-130	
					5.8		20.0	
o-Xylene Column B, Water	47.7621	50.4224	50.000000	ND	96		70-130	
					5.4		20.0	

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 200312

CCB	Continuing Calibration Blank				06/10/2008 1716

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCB	Continuing Calibration Blank				06/10/2008 2009

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.1956							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0240

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/11/2008	0516

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.092		20.00		100.5		90.0-110.0	
Chloride	19.980		20.00		99.9		90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.932		20.00		99.7		90.0-110.0	
Fluoride (F)	10.044		10.00		100.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008 2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.964		20.00		99.8		90.0-110.0	
Chloride	19.926		20.00		99.6		90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0224

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.956		20.00		99.8		90.0-110.0	
Chloride	19.811		20.00		99.1		90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1		90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	WCS49721			06/11/2008 0501

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.889		20.00		99.4		90.0-110.0	
Chloride	19.799		20.00		99.0		90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
DU	Method Duplicate		355303-2	10	06/10/2008 2158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.8915			3.9842	2.4		20	
Fluoride (F), Water	0.9210			0.9245	0.0035		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Sulfate (SO4), Water	5.7625			5.8532	1.6		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
DU	Method Duplicate		355325-3	10	06/11/2008 0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0435	0.0435		0.6000	
Chloride, Water	7.8773			7.8652	0.2		20	
Fluoride (F), Water	0.1402			0.1405	0.0003		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037		0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355328-1	10	06/11/2008	0342

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0393	0.0393		0.6000	
Chloride, Water	9.0189			9.0594	0.4		20	
Fluoride (F), Water	0.1389			0.1331	0.0058		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088		0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355201-1		06/11/2008	0429

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	0			0.0657	0.0657		0.6000	
Chloride, Soil	7.8755			8.0272	1.9		20	
Fluoride (F), Soil	0.7060			0.7115	0.0055		0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010		0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9		20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				06/10/2008	1424

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.547		20.00		97.7		90.0-110.0	
Chloride	19.512		20.00		97.6		90.0-110.0	
Fluoride (F)	10.166		10.00		101.7		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2		90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008	1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008 2040

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.029		20.00		100.1		90.0-110.0	
Chloride	19.803		20.00		99.0		90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4		90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9		90.0-110.0	

MB	Method Blank				06/10/2008 1440

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MB	Method Blank				06/10/2008 2024

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2058							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MS	Matrix Spike	WCS49722	355303-2	10	06/10/2008 2214

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5		90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1		90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9		90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0		90-110	

MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008 0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008	0358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

MS	Matrix Spike	WCS49722	355201-1		06/11/2008	0445

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 355328 Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 400275 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/11/2008	99.4	99.2	92.9	93.9
MB			06/11/2008	101.4	100.1	97.8	93.4
355328- 1		RW-3 6508	06/11/2008	105.8	98.5	96.8	97.7
355328- 1 MS		RW-3 6508	06/11/2008	100.0	95.0	95.7	94.4
355328- 1 MSD		RW-3 6508	06/11/2008	100.1	95.2	99.1	92.1

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/25/2008

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

L A B O R A T O R Y C H R O N I C L E

Job Number: 355328 Date: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: F STATE NM 039122 ATTN: Todd Wells

Lab ID: 355328-1 Client ID: RW-3 6508 Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400275		06/11/2008 1656	10.000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0327	10

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#355.328

TAL-4124 (1007)

Client: CRA	Project Manager: Todd Wells	Date: 6/9/08	Chain of Custody Number: 084215
Address: 2135 S. Loop 250 West	Telephone Number (Area Code)/Fax Number: (432) 686-0086	Lab Number: Houston	Page 1 of 1
City: Midland / State: TX / Zip Code: 79703	Site Contact: T. Wells	Lab Contact: Sachin Kudchadar	Analysis (Attach list if more space is needed)
Project Name and Location (State): #039122 F-State NM	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 4011413			

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	Ice	BTEX 8021B	Chloride 300	Special Instructions/ Conditions of Receipt
RW-3 6508	6/5/08	1505		X						X			X	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 _____

QC Requirements (Specify)

1. Relinquished By: Todd Wells	Date: 6/9/08	Time: 1630	1. Received By:	Date: 6/10/08	Time: 9:35
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-1097-1

Job Description: F State Lea County NM

For:
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Attention: Mr. Todd Weels

Approved for release.
Sachin G Kudchadkar
Project Manager II
10/20/2008 3:19 PM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
10/20/2008

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
600-1097-1	**MW-6**				
Chloride		130	4.0	mg/L	300.0

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC)	TAL HOU	SW846 8021B	
Purge and Trap	TAL HOU		SW846 5030B
Anions, Ion Chromatography	TAL HOU	MCAWW 300.0	

Lab References:

TAL HOU = TestAmerica Houston

Method 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.

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Method	Analyst	Analyst ID
SW846 8021B	Tobias, Merlin H	MHT
MCAWW 300.0	Puranik, Surendra U	SUP

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-1097-1	MW-6	Water	09/04/2008 1045	09/05/2008 0950

SAMPLE RESULTS

Mr. Todd Weels
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-1097-1

Client Sample ID: MW-6
Lab Sample ID: 600-1097-1

Date Sampled: 09/04/2008 1045
Date Received: 09/05/2008 0950
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:	09/10/2008 1107		
Prep Method: 5030B			Date Prepared:	09/10/2008 1107		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	101		%		64 - 136	
a,a,a-Trifluorotoluene	107		%		70 - 135	
Method: 300.0			Date Analyzed:	09/08/2008 2302		
Chloride	130		mg/L	0.92	4.0	10

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Lab Section	Qualifier	Description
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:600-3100					
LCS 600-3100/1	Lab Control Spike	T	Water	8021B	
MB 600-3100/2	Method Blank	T	Water	8021B	
600-1097-1	MW-6	T	Water	8021B	

Report Basis
T = Total

General Chemistry					
Analysis Batch:600-2723					
LCS 600-2723/4	Lab Control Spike	T	Water	300.0	
MB 600-2723/3	Method Blank	T	Water	300.0	
600-1097-1	MW-6	T	Water	300.0	
600-1097-1DU	Duplicate	T	Water	300.0	
600-1097-1MS	Matrix Spike	T	Water	300.0	

Report Basis
T = Total

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Surrogate Recovery Report

8021B Volatile Organic Compounds (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB1 %Rec	TFT1 %Rec
600-1097-1	MW-6	101	107
MB 600-3100/2		101	106
LCS 600-3100/1		98	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	64-136
TFT = a,a,a-Trifluorotoluene	70-135

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Method Blank - Batch: 600-3100

Method: 8021B
Preparation: 5030B

Lab Sample ID: MB 600-3100/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2008 2241
Date Prepared: 09/09/2008 2241

Analysis Batch: 600-3100
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: A090808_061.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Benzene	0.37	U	0.37	1.0
Benzene	0.37	U	0.37	1.0
Toluene	0.39	U	0.39	1.0
Toluene	0.39	U	0.39	1.0
Ethylbenzene	0.42	U	0.42	1.0
Ethylbenzene	0.42	U	0.42	1.0
Xylenes, Total	0.35	U	0.35	1.0
Xylenes, Total	0.35	U	0.35	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	64 - 136
a,a,a-Trifluorotoluene	106	70 - 135

Lab Control Spike - Batch: 600-3100

Method: 8021B
Preparation: 5030B

Lab Sample ID: LCS 600-3100/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2008 2220
Date Prepared: 09/09/2008 2220

Analysis Batch: 600-3100
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: B090808_060.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	44.9	90	72 - 134	
Benzene	50.0	47.4	95	72 - 134	
Toluene	50.0	45.2	90	76 - 131	
Toluene	50.0	45.6	91	76 - 131	
Ethylbenzene	50.0	46.0	92	75 - 131	
Ethylbenzene	50.0	47.5	95	75 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	64 - 136
a,a,a-Trifluorotoluene	102	70 - 135

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

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Method Blank - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 600-2723/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/08/2008 1308
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	0.092	U	0.092	0.40

Lab Control Spike - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 600-2723/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/08/2008 1324
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	20.0	20.2	101	90 - 110	

Matrix Spike - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-1097-1
Client Matrix: Water
Dilution: 10
Date Analyzed: 09/08/2008 2333
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	130	100	229	98	90 - 110	

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

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Duplicate - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-1097-1
Client Matrix: Water
Dilution: 10
Date Analyzed: 09/08/2008 2318
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	130	127	3	20	

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

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-1097-1

Login Number: 1097 **List Source: TestAmerica Houston**
Creator: Trenery, Michael J
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1097

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
CRA	Todd Wells	9-4-08	070841
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2135 S. Loop 250 West	432-686-0086 / 432-686-0186	Houston	
City / State / Zip Code	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Midland / Tx / 79703	Todd Wells	Sachin Kuddhadkar	
Project Name and Location (State)	**Carrier/Waybill Number**		
#039122 / E-State / Lea County, NM	141114735		
Contract/Purchase Order/Quote No.			
4011413			

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	None	BTEX 8021B	Chloride 300	Special Instructions/ Conditions of Receipt
MW-6	9-4-08	1045				X				X			X	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 _____

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
	9-4-08	1345			
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-3921-1

Job Description: New Mexico F State /Lea County

For:
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Attention: Mr. Todd Wells

Approved for release.
Sachin G Kudchadkar
Project Manager II
11/25/2008 10:51 AM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
11/25/2008

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
600-3921-1	**MW 3111408**				
Chloride		32	0.40	mg/L	300.0
600-3921-2	**MW 4111408**				
Chloride		52	4.0	mg/L	300.0
600-3921-3	**MW 5111408**				
Chloride		100	4.0	mg/L	300.0
600-3921-4	**MW 6111408**				
Chloride		130	4.0	mg/L	300.0
600-3921-5	**MW 7111408**				
Chloride		66	4.0	mg/L	300.0
600-3921-6	**MW 8111408**				
Chloride		47	0.40	mg/L	300.0
600-3921-7	**WW 111408**				
Chloride		73	4.0	mg/L	300.0
600-3921-8	**WW 2111408**				
Chloride		73	4.0	mg/L	300.0
600-3921-9	**DUP 111408**				
Chloride		32	0.40	mg/L	300.0

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC)	TAL HOU	SW846 8021B	
Purge and Trap	TAL HOU		SW846 5030B
Anions, Ion Chromatography	TAL HOU	MCAWW 300.0	

Lab References:

TAL HOU = TestAmerica Houston

Method 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.

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Method	Analyst	Analyst ID
SW846 8021B	Tobias, Merlin H	MHT
MCAWW 300.0	Puranik, Surendra U	SUP

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-3921-1	MW 3111408	Water	11/14/2008 1345	11/18/2008 0920
600-3921-2	MW 4111408	Water	11/14/2008 1305	11/18/2008 0920
600-3921-3	MW 5111408	Water	11/14/2008 1320	11/18/2008 0920
600-3921-4	MW 6111408	Water	11/14/2008 1400	11/18/2008 0920
600-3921-5	MW 7111408	Water	11/14/2008 1335	11/18/2008 0920
600-3921-6	MW 8111408	Water	11/14/2008 1245	11/18/2008 0920
600-3921-7	WW 111408	Water	11/14/2008 1215	11/18/2008 0920
600-3921-8	WW 2111408	Water	11/14/2008 1225	11/18/2008 0920
600-3921-9	DUP 111408	Water	11/14/2008 0000	11/18/2008 0920
600-3921-10TB	TRIP BLANK	Water	11/14/2008 0000	11/18/2008 0920

SAMPLE RESULTS

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 3111408**
Lab Sample ID: **600-3921-1**

Date Sampled: 11/14/2008 1345
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0232	
Prep Method: 5030B			Date Prepared:		11/20/2008 0232	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	94		%		64 - 136	
4-Bromofluorobenzene	90		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0119	
Chloride	32		mg/L	0.10	0.40	1.0

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 4111408**
Lab Sample ID: **600-3921-2**

Date Sampled: 11/14/2008 1305
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0252	
Prep Method: 5030B			Date Prepared:		11/20/2008 0252	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	94		%		64 - 136	
4-Bromofluorobenzene	92		%		64 - 136	
a,a,a-Trifluorotoluene	95		%		70 - 135	
a,a,a-Trifluorotoluene	97		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0219	
Chloride	52		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 5111408**
Lab Sample ID: **600-3921-3**

Date Sampled: 11/14/2008 1320
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0312	
Prep Method: 5030B			Date Prepared:		11/20/2008 0312	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	104		%		64 - 136	
4-Bromofluorobenzene	104		%		64 - 136	
a,a,a-Trifluorotoluene	106		%		70 - 135	
a,a,a-Trifluorotoluene	109		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0339	
Chloride	100		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 6111408**
Lab Sample ID: **600-3921-4**

Date Sampled: 11/14/2008 1400
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0332	
Prep Method: 5030B			Date Prepared:		11/20/2008 0332	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	99		%		64 - 136	
4-Bromofluorobenzene	99		%		64 - 136	
a,a,a-Trifluorotoluene	103		%		70 - 135	
a,a,a-Trifluorotoluene	106		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0419	
Chloride	130		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 7111408**
Lab Sample ID: **600-3921-5**

Date Sampled: 11/14/2008 1335
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0452	
Prep Method: 5030B			Date Prepared:		11/20/2008 0452	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	91		%		64 - 136	
4-Bromofluorobenzene	91		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0539	
Chloride	66		mg/L	1.0	4.0	10

Mr. Todd Wells
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Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **MW 8111408**
Lab Sample ID: **600-3921-6**

Date Sampled: 11/14/2008 1245
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0512	
Prep Method: 5030B			Date Prepared:		11/20/2008 0512	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	90		%		64 - 136	
4-Bromofluorobenzene	90		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0559	
Chloride	47		mg/L	0.10	0.40	1.0

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Job Number: 600-3921-1

Client Sample ID: **WW 111408**
Lab Sample ID: **600-3921-7**

Date Sampled: 11/14/2008 1215
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0532	
Prep Method: 5030B			Date Prepared:		11/20/2008 0532	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	96		%		64 - 136	
4-Bromofluorobenzene	96		%		64 - 136	
a,a,a-Trifluorotoluene	99		%		70 - 135	
a,a,a-Trifluorotoluene	102		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0739	
Chloride	73		mg/L	1.0	4.0	10

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Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **WW 2111408**
Lab Sample ID: **600-3921-8**

Date Sampled: 11/14/2008 1225
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0552	
Prep Method: 5030B			Date Prepared:		11/20/2008 0552	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	91		%		64 - 136	
4-Bromofluorobenzene	91		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	95		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0819	
Chloride	73		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **DUP 111408**
Lab Sample ID: **600-3921-9**

Date Sampled: 11/14/2008 0000
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0611	
Prep Method: 5030B			Date Prepared:		11/20/2008 0611	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	95		%		64 - 136	
a,a,a-Trifluorotoluene	97		%		70 - 135	
Method: 300.0			Date Analyzed:		11/20/2008 0839	
Chloride	32		mg/L	0.10	0.40	1.0

Mr. Todd Wells
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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: **TRIP BLANK**
Lab Sample ID: **600-3921-10**

Date Sampled: 11/14/2008 0000
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		11/20/2008 0632	
Prep Method: 5030B			Date Prepared:		11/20/2008 0632	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	90	%	64 - 136
4-Bromofluorobenzene	90	%	64 - 136
a,a,a-Trifluorotoluene	93	%	70 - 135
a,a,a-Trifluorotoluene	96	%	70 - 135

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Lab Section	Qualifier	Description
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:600-6121					
LCS 600-6121/1	Lab Control Spike	T	Water	8021B	
MB 600-6121/2	Method Blank	T	Water	8021B	
600-3921-1	MW 3111408	T	Water	8021B	
600-3921-2	MW 4111408	T	Water	8021B	
600-3921-3	MW 5111408	T	Water	8021B	
600-3921-4	MW 6111408	T	Water	8021B	
600-3921-4MS	Matrix Spike	T	Water	8021B	
600-3921-4MSD	Matrix Spike Duplicate	T	Water	8021B	
600-3921-5	MW 7111408	T	Water	8021B	
600-3921-6	MW 8111408	T	Water	8021B	
600-3921-7	WW 111408	T	Water	8021B	
600-3921-8	WW 2111408	T	Water	8021B	
600-3921-9	DUP 111408	T	Water	8021B	
600-3921-10TB	TRIP BLANK	T	Water	8021B	

Report Basis
T = Total

General Chemistry

Analysis Batch:600-6091					
LCS 600-6091/49	Lab Control Spike	T	Water	300.0	
MB 600-6091/50	Method Blank	T	Water	300.0	
600-3921-1	MW 3111408	T	Water	300.0	
600-3921-2	MW 4111408	T	Water	300.0	
600-3921-3	MW 5111408	T	Water	300.0	
600-3921-4	MW 6111408	T	Water	300.0	
600-3921-4DU	Duplicate	T	Water	300.0	
600-3921-4MS	Matrix Spike	T	Water	300.0	
600-3921-5	MW 7111408	T	Water	300.0	
600-3921-6	MW 8111408	T	Water	300.0	
600-3921-7	WW 111408	T	Water	300.0	
600-3921-8	WW 2111408	T	Water	300.0	
600-3921-9	DUP 111408	T	Water	300.0	

Report Basis
T = Total

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Surrogate Recovery Report

8021B Volatile Organic Compounds (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB1 %Rec	BFB2 %Rec	TFT1 %Rec	TFT2 %Rec
600-3921-1	MW 3111408	94	90	93	96
600-3921-2	MW 4111408	94	92	95	97
600-3921-3	MW 5111408	104	104	106	109
600-3921-4	MW 6111408	99	99	103	106
600-3921-5	MW 7111408	91	91	93	96
600-3921-6	MW 8111408	90	90	93	96
600-3921-7	WW 111408	96	96	99	102
600-3921-8	WW 2111408	91	91	93	95
600-3921-9	DUP 111408	95		97	
600-3921-10	TRIP BLANK	90	90	93	96
MB 600-6121/2		89	89	91	94
LCS 600-6121/1		100	102	104	108
600-3921-4 MS	MW 6111408 MS		99		103
600-3921-4 MSD	MW 6111408 MSD		106		110

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	64-136
TFT = a,a,a-Trifluorotoluene	70-135

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Method Blank - Batch: 600-6121

Method: 8021B
Preparation: 5030B

Lab Sample ID: MB 600-6121/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0132
Date Prepared: 11/20/2008 0132

Analysis Batch: 600-6121
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: A111908_033.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Benzene	0.37	U	0.37	1.0
Toluene	0.39	U	0.39	1.0
Ethylbenzene	0.42	U	0.42	1.0
Xylenes, Total	0.35	U	0.35	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	89	64 - 136
4-Bromofluorobenzene	89	64 - 136
a,a,a-Trifluorotoluene	91	70 - 135
a,a,a-Trifluorotoluene	94	70 - 135

Lab Control Spike - Batch: 600-6121

Method: 8021B
Preparation: 5030B

Lab Sample ID: LCS 600-6121/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0112
Date Prepared: 11/20/2008 0112

Analysis Batch: 600-6121
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: B111908_032.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	61.4	123	72 - 134	
Toluene	50.0	63.2	126	76 - 131	
Ethylbenzene	50.0	62.0	124	75 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	64 - 136
4-Bromofluorobenzene	102	64 - 136
a,a,a-Trifluorotoluene	104	70 - 135
a,a,a-Trifluorotoluene	108	70 - 135

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

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-6121

Method: 8021B
Preparation: 5030B

MS Lab Sample ID:	600-3921-4	Analysis Batch: 600-6121	Instrument ID: GCVOA-02
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: B111908_040.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	11/20/2008 0352		Final Weight/Volume: 5 mL
Date Prepared:	11/20/2008 0352		Injection Volume:
			Column ID: PRIMARY

MSD Lab Sample ID:	600-3921-4	Analysis Batch: 600-6121	Instrument ID: GCVOA-02
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: B111908_041.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	11/20/2008 0412		Final Weight/Volume: 5 mL
Date Prepared:	11/20/2008 0412		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	120	126	39 - 150	5	20		
Toluene	124	129	46 - 148	4	20		
Ethylbenzene	120	128	32 - 160	6	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	106	64 - 136
a,a,a-Trifluorotoluene	103	110	70 - 135

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

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Method Blank - Batch: 600-6091

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 600-6091/50
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2008 1618
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	0.10	U	0.10	0.40

Lab Control Spike - Batch: 600-6091

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 600-6091/49
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2008 1638
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	20.0	19.3	96	90 - 110	

Matrix Spike - Batch: 600-6091

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-3921-4
Client Matrix: Water
Dilution: 10
Date Analyzed: 11/20/2008 0459
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	130	100	217	91	90 - 110	

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

Client: Conestoga-Rovers & Associates, Inc. Job Number: 600-3921-1

Duplicate - Batch: 600-6091

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-3921-4
Client Matrix: Water
Dilution: 10
Date Analyzed: 11/20/2008 0439
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	130	127	1	20	

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 600
3921
#10

TAL-4124 (1007)

600-3921-A-10

Client	Project Manager	Date	Chain of Custody Number
C. R. A.	Todd Wells	11-17-08	090892

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
2135 S. Loop 250 W.	432-686-0086/686-0186		Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Midland	TX	79703	Matt Hudson CEMC	Sackin Kudchadker

Project Name and Location (State)	Carrier/Waybill Number
New Mexico "F" State / Lea County, NM 03917Z	

Contract/Purchase Order/Quote No.: 039122

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	Ice	Analysis: BTEX 8021B	Chloride 300.0	Temp	Special Instructions/ Conditions of Receipt
MW3 111408	11-14-08	1345		X						X			X	X	X		
MW4 111408	11-14-08	1305		X						X			X	X	X		
MW5 111408	11-14-08	1320		X						X			X	X	X		
MW6 111408	11-14-08	1400		X						X			X	X	X		
MW7 111408	11-14-08	1335		X						X			X	X	X		
MW8 111408	11-14-08	1245		X						X			X	X	X		
WW1 111408	11-14-08	1215		X						X			X	X	X		
WW2 111408	11-14-08	1225		X						X			X	X	X		
DUP 111408	11-14-08	—		X						X			X	X	X		
Trip	—	—		X						X			X	X			
Temp	—	—		X									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

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Joe Mireles	11/17/08	1130	T Claunch	11/18/08	9:00
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Page 2 of 2

11/25/2008

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Login Number: 3921

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	