

1R – 289

2008 AGWMR

10/12/2009



Matthew P. Hudson
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Manager

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October 12, 2009

Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: 2008 Annual Groundwater Monitoring Reports

Dear Madam/Sir:

Please find enclosed one hard-copy and one electronic copy of the 2008 Groundwater Monitoring Reports for the following sites:

Mark Owen #9 Reserve Pit; AP-57; Lea County, NM

Former New Mexico State "F" Tank Battery; 1R-258; Lea County, NM

J.R. Philips Tank Battery No. 2; 1R-255; Lea County, NM

G.L. Erwin "A &B" Federal NCT-2 Tank Battery; 1R-254; Lea County, NM

Cooper-Jal Unit South Injection Station; 1R-289; Lea County, NM

Should you have any questions concerning these reports or the on-going work, please call me at (432) 687-7561.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew P. Hudson".

Matthew P. Hudson

Enclosure

2008 ANNUAL GROUNDWATER MONITORING REPORT

**COOPER-JAL UNIT SOUTH INJECTION STATION
CASE NO. 1R289
OGRID NO. 4323
NW/4, NW/4, SE/4, SECTION 24, T-24-S, R-36-E
LATITUDE: N 32° 12' 7.3" LONGITUDE: W 103° 12' 59.9"
LEA COUNTY, NEW MEXICO**

2008 ANNUAL GROUNDWATER MONITORING REPORT

COOPER-JAL UNIT SOUTH INJECTION STATION

CASE NO. 1R289

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LEA COUNTY, NEW MEXICO

Prepared For:

Mr. Matt Hudson

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Upstream Business Unit

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JULY 23, 2009

REF. NO. 039123 (5)

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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 Cooper-Jal Unit South Injection Station (hereafter referred to as the "Site"). Groundwater sampling events were performed on May 14-15, 2008 and on November 3-6 and 12, 2008.

The Site is located on Lea County Road J7, approximately 5.5 miles northwest of Jal, New Mexico and situated in Unit Letter J, northwest quarter (NW/4) of the northwest quarter (NW/4) of the southeast quarter (SE/4), Section 24, Township 24 South, Range 36 East, Lea County, New Mexico. The Site is relatively flat and improved with bermed above-ground storage tanks (ASTs), hardened caliche roadways, and oil and gas production equipment that includes four production wells. Land use in the vicinity of the Site is undeveloped rangeland vegetated with indigenous grass, livestock ranching and oil and gas production. The topography slopes southeast toward Monument Draw located approximately 7.5 miles southeast of the Site. A Site Location Map is presented as FIGURE 1.

Site assessment activities were initiated in 1993 when Environmental Spill Control, Inc. (ESCI) of Hobbs, New Mexico performed a subsurface assessment of an unlined earthen emergency produced water overflow pit that was located adjacent to the west edge of the Site. During the investigation, five boreholes were installed to depths ranging from 15 feet to 100 feet below ground surface (bgs). The investigation revealed the presence of hydrocarbon-affected soil. In 1996, Texaco Exploration and Production, Inc. (Texaco) filed a notice of intent to close the pit with the New Mexico Oil Conservation Division (NMOCD). Approximately 1,248 cubic yards of hydrocarbon-affected material were removed from the pit. During the closure activities, the excavation was lined with approximately 1,091 cubic yards of imported clay and backfilled with 3,360 cubic yards of imported caliche. Texaco submitted the pit closure report to the NMOCD in December 1996.

In 1997, the NMOCD requested additional assessment activities to define the vertical extent of affected soil beneath the pit. Assessment activities performed by Highlander Environmental Corporation revealed elevated soil chloride concentrations. In October 1997, monitor well MW-1 was installed near the former pit. Groundwater samples collected from the well contained chloride concentrations above the New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards for Groundwater. Subsequent assessment activities through May 1998 included the installation of 14 monitor wells. In 1998, electromagnetic (EM-34) terrain conductivity surveys were performed to identify areas of elevated soil chloride concentrations.

In June 1998, Texaco prepared a groundwater corrective action plan to mitigate chloride concentrations and to provide plume containment by extracting groundwater from the affected groundwater-bearing unit. Subsequent assessment activities performed in 1999 included the installation of wells MW-11, RW-1 and RW-2. Wells MW-12 and MW-13 were installed in 2001. Semi-annual groundwater monitoring activities have been performed by CRA since 2005 along with annual reporting to the NMOCD for this Site.

2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the NMWQCC regulations. In addition, the NMWQCC regulations present the Human Health Standards for Groundwater. The constituent of concern in affected groundwater at the Site is chloride. In this report, groundwater analytical results for chloride and four additional analytes are compared to the NMWQCC standards as shown in the following table:

| Analyte | NMWQCC Standard for Groundwater (mg/L) |
|--------------------------------|--|
| Chloride | 250 |
| Fluoride | 1.6 |
| Nitrate (NO ₃ as N) | 10 |
| Sulfate (SO ₄) | 600 |
| Total Dissolved Solids (TDS) | 1,000 |

3.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater at the Site is monitored with a network of 17 monitor wells and two recovery wells in accordance with the *Work Plan for Plume Delineation and Modification to Proposed Groundwater Monitoring Schedule* (Larson & Associates, November 18, 1998). Wells MW-8, MW-9, MW-9A, MW-10 and MW-11 are the only wells sampled during the first semi-annual monitoring event. The remaining 14 wells are sampled annually during the second semi-annual monitoring event. A Site Details Map is presented as FIGURE 2. Groundwater sampling events were performed on May 14-15, 2008 and on November 3-6 and 12, 2008.

The stratification of chloride-impacted groundwater is monitored with selectively screened wells in the affected groundwater-bearing unit. Wells MW-1 through MW-5 and MW-7 through MW-13 are screened across the basal 10 feet to 20 feet of the groundwater-bearing unit. These wells were drilled and completed to the Chinle Formation "Red Beds" underlying the Ogallala Aquifer and are referred to as the "deep wells" in this report. Wells MW-2A, MW-4A, MW-5A and MW-9A are screened across the water table interface with approximately five feet of screen above the water table and 15 feet of screen below the water table. These wells are referenced as the "shallow wells." Wells MW-6, MW-11, RW-1 and RW-2 are screened across the entire saturated zone of the groundwater-bearing unit and are referred to as "fully penetrating" wells.

Prior to purging the monitor wells, static fluid levels were measured 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 well was 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.

Groundwater samples were placed on ice in insulated coolers 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 (TestAmerica Laboratories, Inc. located in Houston, Texas) for analysis of major cations, anions and TDS by various Environmental Protection Agency (EPA) Methods. The fluids recovered and generated during the sampling event were containerized in a dedicated polyethylene tank located onsite and subsequently managed at an NMOCD-permitted salt water disposal (SWD) facility by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE AND GRADIENT

Groundwater elevation data are presented in TABLE I. Groundwater gradient maps for May 2008 and November 2008 are presented on FIGURES 3 and 4, respectively. Depth to groundwater ranged from 130.46 feet to 144.45 feet below top of casing on May 14, 2008 and from 130.41 feet to 144.36 feet below top of casing on November 3, 2008.

Although the Site's network of wells is completed at various intervals (shallow, deep and fully penetrating), the groundwater elevations appear to be consistent with historical levels with groundwater flow to the southeast. The gradient observed in 2008 was 0.003 feet/foot for both May and November events.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. An isoconcentration map of the chloride concentration for the May 2008 groundwater monitoring event is presented as FIGURE 5. Chloride isoconcentration maps for the shallow and deep wells for November 2008 are presented as FIGURES 6 and 7, respectively.

The analytical results generally fall within historical ranges. During the May 2008 sampling event, two monitor wells (MW-9A and MW-10) exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, two monitor wells (MW-9 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. In November 2008, eight wells (MW-2, MW-4, MW-4A, MW-5, MW-7, MW-9A, MW-13 and RW-2) exceeded the NMWQCC groundwater standards for chloride and TDS. Recovery well RW-1 exceeded the NMWQCC groundwater standard for chloride. In addition, two wells (MW-1 and MW-9) exceeded the NMWQCC groundwater standard for fluoride. Two wells (MW-4 and MW-5) also exceeded the NMWQCC groundwater standard for sulfate. Nitrate concentrations were below NMWQCC groundwater standards during the 2008 sampling events. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX A.

4.0 PLANNED ACTIVITIES

The semi-annual 2009 groundwater monitoring events are scheduled for May and November 2009. On October 1, 1999, Texaco Exploration and Production, Inc. filed applications with the New Mexico Office of the State Engineer (NMOSE) to Divert Underground Waters for proposed recovery wells RW-1 (CP-884) and RW-2 (CP-885). The objective for the application to divert underground water was to remove chloride-impacted groundwater as a corrective action. On June 16, 2008 the NMOSE approved both permits (CP-884 and CP-885) to Divert Underground Waters with allocations limited to a maximum of 32.5 acre-feet per annum consumptive use for each permit for the purpose of environmental remediation. Copies of the NMOSE approval letters for permits (CP-884 and CP-885), dated June 18, 2008, specific conditions of approval and permit applications are attached as Appendix B.

A pump test and well conductivity profiling are scheduled during the second quarter of 2009 to further evaluate the aquifer at the Site. Following the aquifer evaluation, groundwater remediation methods and system design will be evaluated and a choice of remedial action for the Site will be made at that time, as appropriate, to achieve the NMWQCC cleanup standards and meet regulatory obligations.

5.0 SUMMARY OF FINDINGS

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

- Groundwater at the Site is monitored with a network of 17 monitor wells and two recovery wells. Wells MW-8, MW-9, MW-9A, MW-10 and MW-11 are sampled semi-annually. The remaining 14 wells are sampled annually during the second semi-annual sampling event.
- Depth to groundwater ranged from 130.46 feet to 144.45 feet below top of casing on May 14, 2008 and from 130.41 feet to 144.36 feet below top of casing on November 3, 2008. Groundwater flow at the Site is to the southeast at a gradient of 0.003 feet/foot.
- The analytical results generally fall within historical ranges with higher chloride concentrations in the basal portion of the Ogallala aquifer. During the May 2008 sampling event, two monitor wells (MW-9A and MW-10) exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, two monitor wells (MW-9 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. In November 2008, eight wells (MW-2, MW-4, MW-4A, MW-5, MW-7, MW-9A, MW-13 and RW-2) exceeded the NMWQCC groundwater standards for chloride and TDS. Recovery well RW-1 exceeded the NMWQCC groundwater standard for chloride. In addition, two wells (MW-1 and MW-9) exceeded the NMWQCC groundwater standard for fluoride. Two wells (MW-4 and MW-5) also exceeded the NMWQCC groundwater standard for sulfate. Nitrate concentrations were below NMWQCC groundwater standards during the 2008 sampling events.
- The semi-annual 2009 groundwater monitoring events are scheduled for May and November 2009. A pump test is scheduled for the second quarter of 2009 to further evaluate the aquifer at the Site. Following the pump test, groundwater remediation methods will be evaluated and a choice of remedial action for the chloride impacted Site will be made at that time, as appropriate, to achieve the NMWQCC cleanup standards and meet regulatory obligations.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

- Todd Wells

Todd Wells
Project Manager

Thomas Larson

Thomas C. Larson
Senior Project Manager



SOURCE: USGS 7.5 MINUTE QUADRANGLE;
JAL NW, NEW MEXICO (1977)

32°12' 7.13" N, 103°13' 4.36" W

figure 1

**SITE LOCATION MAP
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO
*Chevron Environmental Management Company***

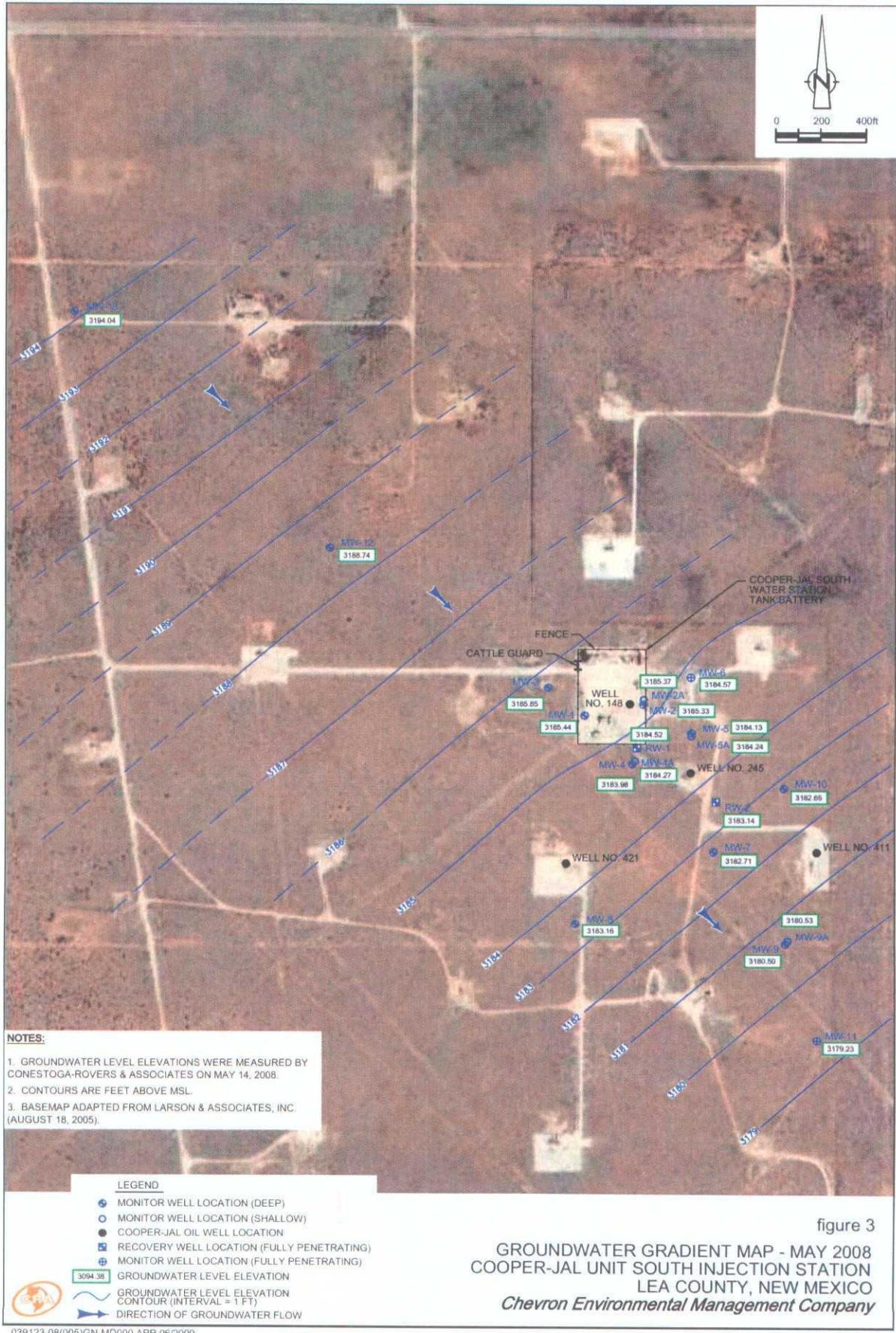


039123-08(005)GN-MD000 MAR 24/2009



figure 2
SITE DETAILS MAP
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





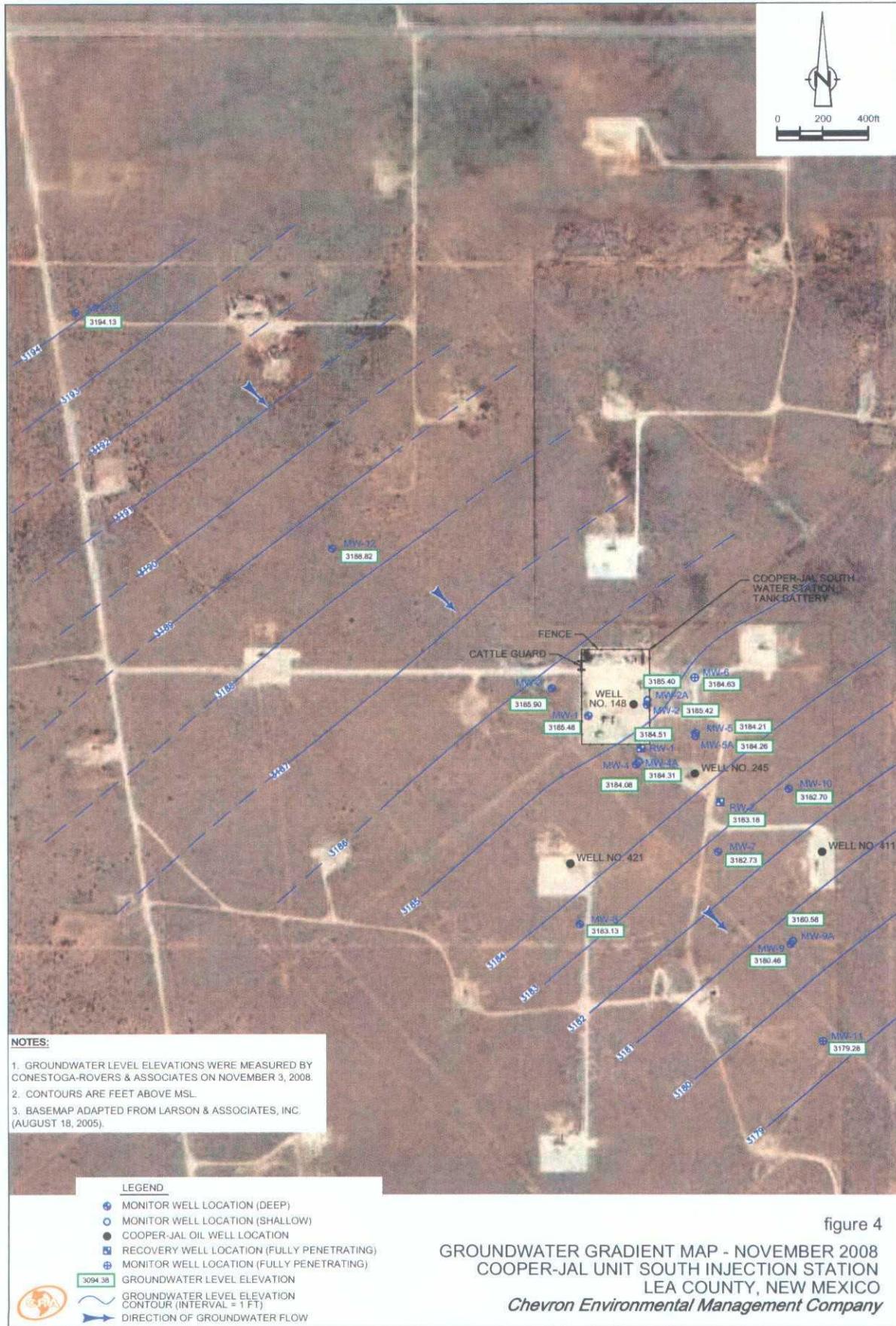


figure 4
GROUNDWATER GRADIENT MAP - NOVEMBER 2008
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





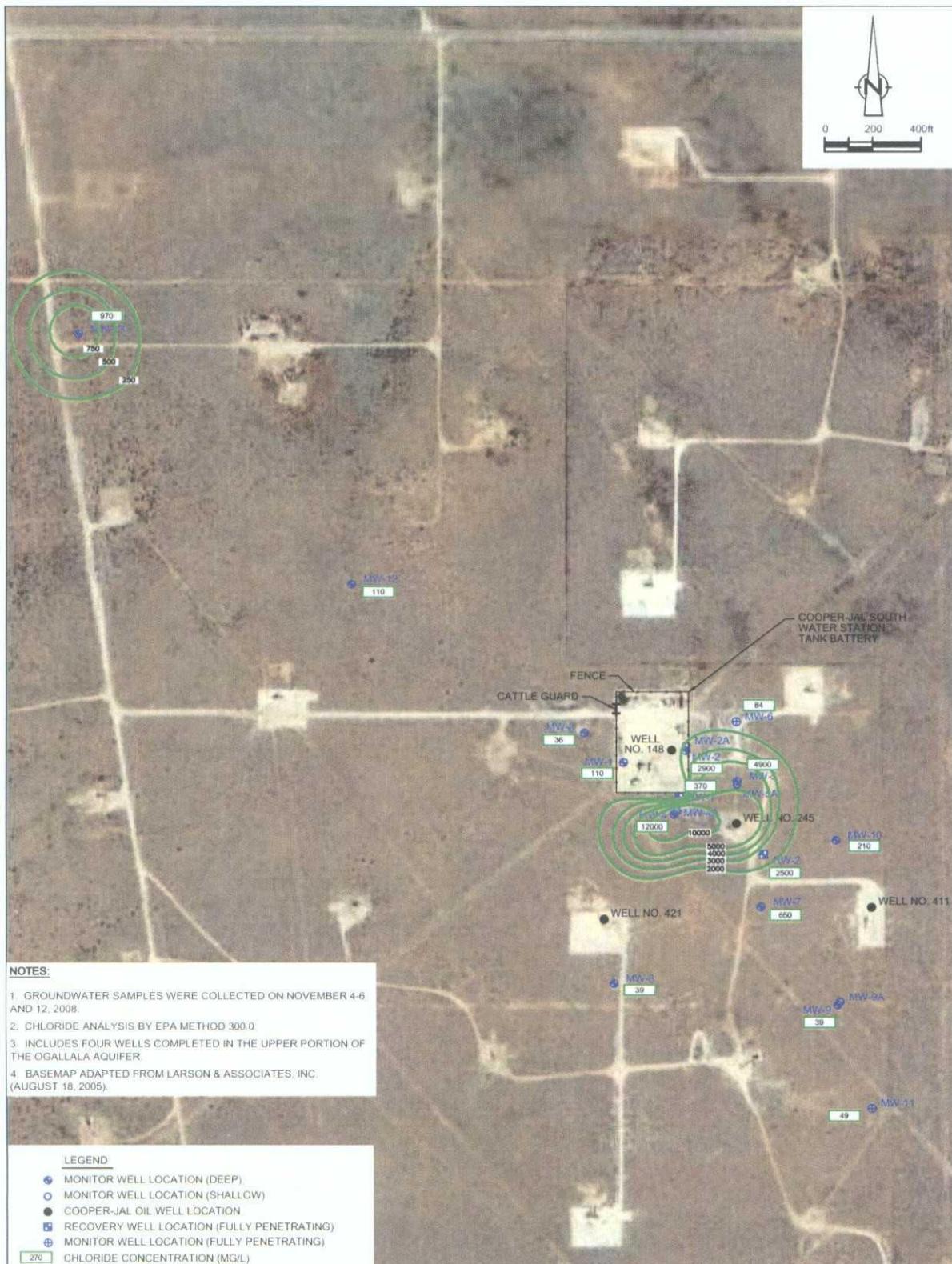


figure 7
DEEP GROUNDWATER CHLORIDE ISOCONCENTRATION MAP - NOVEMBER 2008
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-1 3320.17 | 05/18/98 | 135.05 | 2 | 3185.12 | 172.38 | 153-173 |
| | 05/25/99 | 134.93 | --- | 3185.24 | --- | --- |
| | 02/08/01 | 134.80 | --- | 3185.37 | --- | --- |
| | 05/10/02 | 134.77 | --- | 3185.40 | --- | --- |
| | 10/22/02 | 134.89 | --- | 3185.28 | --- | --- |
| | 05/20/03 | 135.17 | --- | 3185.00 | --- | --- |
| | 11/24/03 | 134.70 | --- | 3185.47 | --- | --- |
| | 05/11/04 | 134.75 | --- | 3185.42 | --- | --- |
| | 11/15/04 | 134.76 | --- | 3185.41 | --- | --- |
| | 05/17/05 | 134.29 | --- | 3185.88 | --- | --- |
| | 11/15/05 | 134.93 | --- | 3185.24 | --- | --- |
| | 05/08/06 | 134.68 | --- | 3185.49 | --- | --- |
| | 11/13/06 | 134.62 | --- | 3185.55 | --- | --- |
| | 05/29/07 | 134.71 | --- | 3185.46 | --- | --- |
| | 11/16/07 | 134.70 | --- | 3185.47 | --- | --- |
| | 05/14/08 | 134.73 | --- | 3185.44 | --- | --- |
| | 11/03/08 | 134.69 | --- | 3185.48 | --- | --- |
| MW-2 3319.86 | 05/18/98 | 135.00 | 2 | 3184.86 | 170.60 | 163-173 |
| | 05/25/99 | 134.79 | --- | 3185.07 | --- | --- |
| | 02/08/01 | 134.63 | --- | 3185.23 | --- | --- |
| | 05/10/02 | 134.65 | --- | 3185.21 | --- | --- |
| | 10/22/02 | 134.72 | --- | 3185.14 | --- | --- |
| | 05/20/03 | 134.95 | --- | 3184.91 | --- | --- |
| | 11/24/03 | 134.56 | --- | 3185.30 | --- | --- |
| | 05/11/04 | 134.55 | --- | 3185.31 | --- | --- |
| | 11/15/04 | 134.53 | --- | 3185.33 | --- | --- |
| | 05/17/05 | 134.39 | --- | 3185.47 | --- | --- |
| | 11/15/05 | 134.77 | --- | 3185.09 | --- | --- |
| | 05/08/06 | 134.52 | --- | 3185.34 | --- | --- |
| | 11/13/06 | 134.44 | --- | 3185.42 | --- | --- |
| | 05/29/07 | 134.54 | --- | 3185.32 | --- | --- |
| | 11/14/07 | 134.52 | --- | 3185.34 | --- | --- |
| | 05/14/08 | 134.53 | --- | 3185.33 | --- | --- |
| | 11/03/08 | 134.44 | --- | 3185.42 | --- | --- |
| MW-2A 3319.86 | 05/18/98 | 134.80 | 2 | 3185.06 | 142.30 | 130-145 |
| | 05/25/99 | 134.73 | --- | 3185.13 | --- | --- |
| | 02/08/01 | 134.58 | --- | 3185.28 | --- | --- |
| | 05/10/02 | 134.50 | --- | 3185.36 | --- | --- |
| | 10/22/02 | 134.66 | --- | 3185.20 | --- | --- |
| | 05/20/03 | 135.80 | --- | 3184.06 | --- | --- |
| | 11/24/03 | 134.60 | --- | 3185.26 | --- | --- |
| | 05/11/04 | 134.53 | --- | 3185.33 | --- | --- |
| | 11/15/04 | 134.58 | --- | 3185.28 | --- | --- |
| | 05/17/05 | 134.47 | --- | 3185.39 | --- | --- |
| | 11/15/05 | 134.74 | --- | 3185.12 | --- | --- |
| | 05/08/06 | 134.46 | --- | 3185.40 | --- | --- |
| | 11/13/06 | 134.39 | --- | 3185.47 | --- | --- |
| | 05/29/07 | 134.50 | --- | 3185.36 | --- | --- |
| | 11/14/07 | 134.48 | --- | 3185.38 | --- | --- |
| | 05/14/08 | 134.49 | --- | 3185.37 | --- | --- |
| | 11/03/08 | 134.46 | --- | 3185.40 | --- | --- |

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GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-3 3318.21 | 05/18/98 | 132.65 | 2 | 3185.56 | 171.93 | 161-171 |
| | 05/25/99 | 132.52 | --- | 3185.69 | --- | --- |
| | 02/08/01 | 132.40 | --- | 3185.81 | --- | --- |
| | 05/10/02 | 132.40 | --- | 3185.81 | --- | --- |
| | 10/22/02 | 132.49 | --- | 3185.72 | --- | --- |
| | 05/20/03 | 132.75 | --- | 3185.46 | --- | --- |
| | 11/24/03 | 132.29 | --- | 3185.92 | --- | --- |
| | 05/11/04 | 132.38 | --- | 3185.83 | --- | --- |
| | 11/15/04 | 132.46 | --- | 3185.75 | --- | --- |
| | 05/17/05 | 132.32 | --- | 3185.89 | --- | --- |
| | 11/15/05 | 132.55 | --- | 3185.66 | --- | --- |
| | 05/08/06 | 132.32 | --- | 3185.89 | --- | --- |
| | 11/13/06 | 132.27 | --- | 3185.94 | --- | --- |
| | 05/29/07 | 132.36 | --- | 3185.85 | --- | --- |
| | 11/16/07 | 132.34 | --- | 3185.87 | --- | --- |
| | 05/14/08 | 132.36 | --- | 3185.85 | --- | --- |
| | 11/03/08 | 132.31 | --- | 3185.90 | --- | --- |
| MW-4 3319.74 | 05/18/98 | 136.01 | 2 | 3183.73 | 171.41 | 161-171 |
| | 05/25/99 | 135.57 | --- | 3184.17 | --- | --- |
| | 02/08/01 | 135.87 | --- | 3183.87 | --- | --- |
| | 05/10/02 | 135.67 | --- | 3184.07 | --- | --- |
| | 10/22/02 | 135.90 | --- | 3183.84 | --- | --- |
| | 05/20/03 | 136.00 | --- | 3183.74 | --- | --- |
| | 11/24/03 | 135.70 | --- | 3184.04 | --- | --- |
| | 05/11/04 | 135.34 | --- | 3184.40 | --- | --- |
| | 11/15/04 | 135.76 | --- | 3183.98 | --- | --- |
| | 05/17/05 | 135.69 | --- | 3184.05 | --- | --- |
| | 11/15/05 | 135.85 | --- | 3183.89 | --- | --- |
| | 05/08/06 | 135.60 | --- | 3184.14 | --- | --- |
| | 11/13/06 | 135.59 | --- | 3184.15 | --- | --- |
| | 05/29/07 | 135.75 | --- | 3183.99 | --- | --- |
| | 11/14/07 | 135.62 | --- | 3184.12 | --- | --- |
| | 05/14/08 | 135.76 | --- | 3183.98 | --- | --- |
| | 11/03/08 | 135.66 | --- | 3184.08 | --- | --- |
| MW-4A 3319.58 | 05/18/98 | 135.68 | 2 | 3183.90 | 146.00 | 128-143 |
| | 05/21/99 | 135.65 | --- | 3183.93 | --- | --- |
| | 05/25/99 | 135.90 | --- | 3183.68 | --- | --- |
| | 02/08/01 | 135.34 | --- | 3184.24 | --- | --- |
| | 05/10/02 | 135.30 | --- | 3184.28 | --- | --- |
| | 10/22/02 | 135.51 | --- | 3184.07 | --- | --- |
| | 05/20/03 | 135.55 | --- | 3184.03 | --- | --- |
| | 11/24/03 | 135.31 | --- | 3184.27 | --- | --- |
| | 05/11/04 | 135.72 | --- | 3183.86 | --- | --- |
| | 11/15/04 | 135.38 | --- | 3184.20 | --- | --- |
| | 05/17/05 | 135.32 | --- | 3184.26 | --- | --- |
| | 11/15/05 | 135.52 | --- | 3184.06 | --- | --- |
| | 05/08/06 | 135.26 | --- | 3184.32 | --- | --- |
| | 11/13/06 | 135.20 | --- | 3184.38 | --- | --- |
| | 05/29/07 | 135.32 | --- | 3184.26 | --- | --- |
| | 11/14/07 | 135.20 | --- | 3184.38 | --- | --- |
| | 05/14/08 | 135.31 | --- | 3184.27 | --- | --- |
| | 11/03/08 | 135.27 | --- | 3184.31 | --- | --- |

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GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-5 3321.10 | 05/18/98 | 137.42 | 2 | 3183.68 | 173.65 | 161-171 |
| | 05/25/99 | 137.28 | --- | 3183.82 | --- | --- |
| | 02/08/01 | 137.18 | --- | 3183.92 | --- | --- |
| | 05/10/02 | 137.10 | --- | 3184.00 | --- | --- |
| | 10/22/02 | 137.04 | --- | 3184.06 | --- | --- |
| | 05/20/03 | 137.45 | --- | 3183.65 | --- | --- |
| | 11/24/03 | 137.01 | --- | 3184.09 | --- | --- |
| | 05/11/04 | 137.01 | --- | 3184.09 | --- | --- |
| | 11/15/04 | 137.08 | --- | 3184.02 | --- | --- |
| | 05/17/05 | 137.00 | --- | 3184.10 | --- | --- |
| | 11/15/05 | 137.18 | --- | 3183.92 | --- | --- |
| | 05/08/06 | 136.90 | --- | 3184.20 | --- | --- |
| | 11/13/06 | 136.81 | --- | 3184.29 | --- | --- |
| | 05/29/07 | 136.92 | --- | 3184.18 | --- | --- |
| | 11/14/07 | 136.85 | --- | 3184.25 | --- | --- |
| | 05/14/08 | 136.97 | --- | 3184.13 | --- | --- |
| | 11/03/08 | 136.89 | --- | 3184.21 | --- | --- |
| MW-5A 3321.07 | 05/18/98 | 137.20 | 2 | 3183.87 | 143.85 | 126-141 |
| | 05/25/99 | 137.11 | --- | 3183.96 | --- | --- |
| | 02/08/01 | 136.99 | --- | 3184.08 | --- | --- |
| | 05/10/02 | 136.90 | --- | 3184.17 | --- | --- |
| | 10/22/02 | 137.17 | --- | 3183.90 | --- | --- |
| | 05/20/03 | 137.24 | --- | 3183.83 | --- | --- |
| | 11/24/03 | 136.91 | --- | 3184.16 | --- | --- |
| | 05/11/04 | 136.88 | --- | 3184.19 | --- | --- |
| | 11/15/04 | 136.92 | --- | 3184.15 | --- | --- |
| | 05/17/05 | 136.83 | --- | 3184.24 | --- | --- |
| | 11/15/05 | 137.06 | --- | 3184.01 | --- | --- |
| | 05/08/06 | 136.80 | --- | 3184.27 | --- | --- |
| | 11/13/06 | 136.74 | --- | 3184.33 | --- | --- |
| | 05/29/07 | 136.82 | --- | 3184.25 | --- | --- |
| | 11/14/07 | 136.88 | --- | 3184.19 | --- | --- |
| | 05/14/08 | 136.83 | --- | 3184.24 | --- | --- |
| | 11/03/08 | 136.81 | --- | 3184.26 | --- | --- |
| MW-6 3321.15 | 05/18/98 | 136.73 | 2 | 3184.42 | 169.25 | 120-170 |
| | 05/25/99 | 136.61 | --- | 3184.54 | --- | --- |
| | 02/08/01 | 136.50 | --- | 3184.65 | --- | --- |
| | 05/10/02 | 136.40 | --- | 3184.75 | --- | --- |
| | 10/22/02 | 136.57 | --- | 3184.58 | --- | --- |
| | 05/20/03 | 136.85 | --- | 3184.30 | --- | --- |
| | 11/24/03 | 136.38 | --- | 3184.77 | --- | --- |
| | 05/11/04 | 136.41 | --- | 3184.74 | --- | --- |
| | 11/15/04 | 136.08 | --- | 3185.07 | --- | --- |
| | 05/17/05 | 136.58 | --- | 3184.57 | --- | --- |
| | 11/15/05 | 136.82 | --- | 3184.33 | --- | --- |
| | 05/08/06 | 136.58 | --- | 3184.57 | --- | --- |
| | 11/13/06 | 136.49 | --- | 3184.66 | --- | --- |
| | 05/29/07 | 136.61 | --- | 3184.54 | --- | --- |
| | 11/15/07 | 136.59 | --- | 3184.56 | --- | --- |
| | 05/14/08 | 136.58 | --- | 3184.57 | --- | --- |
| | 11/03/08 | 136.52 | --- | 3184.63 | --- | --- |

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-7 3318.39 | 05/18/98 | 136.19 | 2 | 3182.20 | 166.15 | 151-166 |
| | 05/25/99 | 135.98 | --- | 3182.41 | --- | --- |
| | 02/08/01 | 135.87 | --- | 3182.52 | --- | --- |
| | 05/10/02 | 135.67 | --- | 3182.72 | --- | --- |
| | 10/22/02 | 135.89 | --- | 3182.50 | --- | --- |
| | 05/20/03 | 136.12 | --- | 3182.27 | --- | --- |
| | 11/24/03 | 135.71 | --- | 3182.68 | --- | --- |
| | 05/11/04 | 135.74 | --- | 3182.65 | --- | --- |
| | 11/15/04 | 135.78 | --- | 3182.61 | --- | --- |
| | 05/17/05 | 135.68 | --- | 3182.71 | --- | --- |
| | 11/15/05 | 135.90 | --- | 3182.49 | --- | --- |
| | 05/08/06 | 135.64 | --- | 3182.75 | --- | --- |
| | 11/13/06 | 135.58 | --- | 3182.81 | --- | --- |
| | 05/29/07 | 135.73 | --- | 3182.66 | --- | --- |
| | 11/15/07 | 135.64 | --- | 3182.75 | --- | --- |
| | 05/14/08 | 135.68 | --- | 3182.71 | --- | --- |
| | 11/03/08 | 135.66 | --- | 3182.73 | --- | --- |
| MW-8 3317.14 | 05/18/98 | 134.36 | 2 | 3182.78 | 171.92 | 155-170 |
| | 05/25/99 | 134.21 | --- | 3182.93 | --- | --- |
| | 02/08/01 | 134.08 | --- | 3183.06 | --- | --- |
| | 05/10/02 | 133.95 | --- | 3183.19 | --- | --- |
| | 10/22/02 | 134.18 | --- | 3182.96 | --- | --- |
| | 05/20/03 | 134.38 | --- | 3182.76 | --- | --- |
| | 11/24/03 | 133.99 | --- | 3183.15 | --- | --- |
| | 05/11/04 | 134.02 | --- | 3183.12 | --- | --- |
| | 11/15/04 | 134.11 | --- | 3183.03 | --- | --- |
| | 05/17/05 | 133.97 | --- | 3183.17 | --- | --- |
| | 11/15/05 | 134.21 | --- | 3182.93 | --- | --- |
| | 05/08/06 | 133.94 | --- | 3183.20 | --- | --- |
| | 11/13/06 | 133.9 | --- | 3183.24 | --- | --- |
| | 05/29/07 | 134.02 | --- | 3183.12 | --- | --- |
| | 11/15/07 | 133.76 | --- | 3183.38 | --- | --- |
| | 05/15/08 | 133.98 | --- | 3183.16 | --- | --- |
| | 11/03/08 | 134.01 | --- | 3183.13 | --- | --- |
| MW-9 3312.79 | 05/18/98 | 132.89 | 2 | 3179.90 | 161.40 | 149-164 |
| | 05/25/99 | 132.68 | --- | 3180.11 | --- | --- |
| | 02/08/01 | 132.52 | --- | 3180.27 | --- | --- |
| | 05/10/02 | 137.20 | --- | 3175.59 | --- | --- |
| | 10/22/02 | 132.56 | --- | 3180.23 | --- | --- |
| | 05/20/03 | 132.75 | --- | 3180.04 | --- | --- |
| | 11/24/03 | 132.35 | --- | 3180.44 | --- | --- |
| | 05/11/04 | 132.39 | --- | 3180.40 | --- | --- |
| | 11/15/04 | 132.43 | --- | 3180.36 | --- | --- |
| | 05/17/05 | 132.26 | --- | 3180.53 | --- | --- |
| | 11/15/05 | 132.60 | --- | 3180.19 | --- | --- |
| | 05/08/06 | 132.26 | --- | 3180.53 | --- | --- |
| | 11/13/06 | 132.19 | --- | 3180.60 | --- | --- |
| | 05/29/07 | 132.32 | --- | 3180.47 | --- | --- |
| | 11/14/07 | 132.34 | --- | 3180.45 | --- | --- |
| | 05/15/08 | 132.29 | --- | 3180.50 | --- | --- |
| | 11/03/08 | 132.33 | --- | 3180.46 | --- | --- |

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-9A 3312.56 | 05/18/98 | 132.65 | 2 | 3179.91 | 144.15 | 127-142 |
| | 05/25/99 | 132.43 | --- | 3180.13 | --- | --- |
| | 02/08/01 | 132.37 | --- | 3180.19 | --- | --- |
| | 05/10/02 | 137.20 | --- | 3175.36 | --- | --- |
| | 10/22/02 | 132.35 | --- | 3180.21 | --- | --- |
| | 05/20/03 | 132.55 | --- | 3180.01 | --- | --- |
| | 11/24/03 | 132.10 | --- | 3180.46 | --- | --- |
| | 05/11/04 | 132.14 | --- | 3180.42 | --- | --- |
| | 11/15/04 | 132.19 | --- | 3180.37 | --- | --- |
| | 05/17/05 | 132.06 | --- | 3180.50 | --- | --- |
| | 11/15/05 | 132.35 | --- | 3180.21 | --- | --- |
| | 05/08/06 | 132.02 | --- | 3180.54 | --- | --- |
| | 11/13/06 | 131.09 | --- | 3181.47 | --- | --- |
| | 05/29/07 | 132.08 | --- | 3180.48 | --- | --- |
| | 11/14/07 | 132.06 | --- | 3180.50 | --- | --- |
| | 05/15/08 | 132.03 | --- | 3180.53 | --- | --- |
| | 11/03/08 | 131.98 | --- | 3180.58 | --- | --- |
| MW-10 3319.30 | 05/18/98 | 137.18 | 2 | 3182.12 | 164.15 | 151-166 |
| | 05/25/99 | 137.04 | --- | 3182.26 | --- | --- |
| | 02/08/01 | 136.88 | --- | 3182.42 | --- | --- |
| | 05/10/02 | 136.80 | --- | 3182.50 | --- | --- |
| | 10/22/02 | 136.91 | --- | 3182.39 | --- | --- |
| | 05/20/03 | 137.13 | --- | 3182.17 | --- | --- |
| | 11/24/03 | 136.71 | --- | 3182.59 | --- | --- |
| | 05/11/04 | 136.77 | --- | 3182.53 | --- | --- |
| | 11/15/04 | 136.82 | --- | 3182.48 | --- | --- |
| | 05/17/05 | 136.34 | --- | 3182.96 | --- | --- |
| | 11/15/05 | 136.95 | --- | 3182.35 | --- | --- |
| | 05/08/06 | 136.65 | --- | 3182.65 | --- | --- |
| | 11/13/06 | 136.59 | --- | 3182.71 | --- | --- |
| | 05/29/07 | 136.68 | --- | 3182.62 | --- | --- |
| | 11/15/07 | 136.61 | --- | 3182.69 | --- | --- |
| | 05/15/08 | 136.65 | --- | 3182.65 | --- | --- |
| | 11/03/08 | 136.6 | --- | 3182.70 | --- | --- |
| MW-11 3309.69 | 03/23/99 | 131.12 | 4 | 3178.57 | 165.71 | 125-165 |
| | 05/25/99 | 130.91 | --- | 3178.78 | --- | --- |
| | 02/08/01 | 130.11 | --- | 3179.58 | --- | --- |
| | 05/10/02 | 135.60 | --- | 3174.09 | --- | --- |
| | 10/22/02 | 130.76 | --- | 3178.93 | --- | --- |
| | 05/20/03 | 131.03 | --- | 3178.66 | --- | --- |
| | 11/24/03 | 130.57 | --- | 3179.12 | --- | --- |
| | 05/11/04 | 130.61 | --- | 3179.08 | --- | --- |
| | 11/15/04 | 130.65 | --- | 3179.04 | --- | --- |
| | 05/17/05 | 131.56 | --- | 3178.13 | --- | --- |
| | 11/15/05 | 130.70 | --- | 3178.99 | --- | --- |
| | 05/08/06 | 130.41 | --- | 3179.28 | --- | --- |
| | 11/13/06 | 130.42 | --- | 3179.27 | --- | --- |
| | 05/29/07 | 130.52 | --- | 3179.17 | --- | --- |
| | 11/14/07 | 130.42 | --- | 3179.27 | --- | --- |
| | 05/15/08 | 130.46 | --- | 3179.23 | --- | --- |
| | 11/03/08 | 130.41 | --- | 3179.28 | --- | --- |

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| MW-12 3328.43 | 05/10/02 | 139.57 | 2 | 3188.86 | 165.50 | 156.68-171.65 |
| | 10/22/02 | 139.73 | --- | 3188.70 | --- | --- |
| | 05/20/03 | 139.72 | --- | 3188.71 | --- | --- |
| | 11/24/03 | 139.69 | --- | 3188.74 | --- | --- |
| | 05/11/04 | 139.64 | --- | 3188.79 | --- | --- |
| | 11/15/04 | 139.68 | --- | 3188.75 | --- | --- |
| | 05/17/05 | 139.58 | --- | 3188.85 | --- | --- |
| | 11/15/05 | 139.83 | --- | 3188.60 | --- | --- |
| | 05/08/06 | 139.55 | --- | 3188.88 | --- | --- |
| | 11/13/06 | 139.53 | --- | 3188.90 | --- | --- |
| | 05/29/07 | 139.65 | --- | 3188.78 | --- | --- |
| | 11/16/07 | 139.05 | --- | 3189.38 | --- | --- |
| | 05/14/08 | 139.69 | --- | 3188.74 | --- | --- |
| | 11/03/08 | 139.61 | --- | 3188.82 | --- | --- |
| MW-13 3338.49 | 05/10/02 | 144.45 | 2 | 3194.04 | 167.40 | 156.68-171.65 |
| | 10/22/02 | 144.49 | --- | 3194.00 | --- | --- |
| | 05/20/03 | 144.9 | --- | 3193.59 | --- | --- |
| | 11/24/03 | 144.37 | --- | 3194.12 | --- | --- |
| | 05/11/04 | 144.47 | --- | 3194.02 | --- | --- |
| | 11/15/04 | 144.56 | --- | 3193.93 | --- | --- |
| | 05/17/05 | 144.36 | --- | 3194.13 | --- | --- |
| | 11/15/05 | 144.60 | --- | 3193.89 | --- | --- |
| | 05/08/06 | 144.29 | --- | 3194.20 | --- | --- |
| | 11/13/06 | 144.38 | --- | 3194.11 | --- | --- |
| | 05/29/07 | 144.54 | --- | 3193.95 | --- | --- |
| | 11/16/07 | 144.54 | --- | 3193.95 | --- | --- |
| | 05/14/08 | 144.45 | --- | 3194.04 | --- | --- |
| | 11/03/08 | 144.36 | --- | 3194.13 | --- | --- |
| RW-1 3318.50 | 05/21/99 | 134.32 | 5 | 3184.18 | 171.25 | 130.41-174.37 |
| | 05/25/99 | 134.24 | --- | 3184.26 | --- | --- |
| | 02/08/01 | 134.15 | --- | 3184.35 | --- | --- |
| | 05/10/02 | 134.00 | --- | 3184.50 | --- | --- |
| | 10/22/02 | 134.17 | --- | 3184.33 | --- | --- |
| | 05/20/03 | 134.40 | --- | 3184.10 | --- | --- |
| | 11/24/03 | 134.02 | --- | 3184.48 | --- | --- |
| | 05/11/04 | 134.01 | --- | 3184.49 | --- | --- |
| | 11/15/04 | 134.06 | --- | 3184.44 | --- | --- |
| | 05/17/05 | 133.97 | --- | 3184.53 | --- | --- |
| | 11/15/05 | 134.20 | --- | 3184.30 | --- | --- |
| | 05/08/06 | 133.93 | --- | 3184.57 | --- | --- |
| | 11/13/06 | 133.92 | --- | 3184.58 | --- | --- |
| | 05/29/07 | 134.00 | --- | 3184.50 | --- | --- |
| | 11/15/07 | 133.88 | --- | 3184.62 | --- | --- |
| | 05/14/08 | 133.98 | --- | 3184.52 | --- | --- |
| | 11/03/08 | 133.99 | --- | 3184.51 | --- | --- |

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC</i> <i>Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|--------------------|-------------------------------------|----------------------------|----------------------------------|------------------------|-------------------------------------|
| RW-2 3318.62 | 02/08/01 | 135.58 | 5 | 3183.04 | 154.63 | 134.22-172.73 |
| | 05/10/02 | 135.55 | --- | 3183.07 | --- | --- |
| | 10/22/02 | 135.55 | --- | 3183.07 | --- | --- |
| | 05/20/03 | 135.58 | --- | 3183.04 | --- | --- |
| | 11/24/03 | 135.54 | --- | 3183.08 | --- | --- |
| | 05/11/04 | 135.48 | --- | 3183.14 | --- | --- |
| | 11/15/04 | 135.43 | --- | 3183.19 | --- | --- |
| | 05/17/05 | 135.46 | --- | 3183.16 | --- | --- |
| | 11/15/05 | 135.65 | --- | 3182.97 | --- | --- |
| | 05/08/06 | 135.42 | --- | 3183.20 | --- | --- |
| | 11/13/06 | 135.47 | --- | 3183.15 | --- | --- |
| | 05/29/07 | 135.54 | --- | 3183.08 | --- | --- |
| | 11/15/07 | 135.48 | --- | 3183.14 | --- | --- |
| | 05/14/08 | 135.48 | --- | 3183.14 | --- | --- |
| | 11/03/08 | 135.44 | --- | 3183.18 | --- | --- |

Notes:

1. TOC - Top of Casing.
2. bgs - below ground surface.
3. A - Indicates shallow groundwater monitor well.

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate | Bicarbonate | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS |
|---|-------------|------------|-------------|------------------|----------|----------|-------------|---------|---------|-----------|-----------|-------------|----------|
| | | Alkalinity | Alkalinity | Alkalinity | 250 | 1,600 | 1,000 | 600 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| New Mexico Water Quality Control Commission Groundwater Standard | | | | | | | | | | | | | |
| MW-1 | 9/16/97 | -- | -- | 280 | 8,500 | -- | 1,100 | 520.0 | 630.0 | 50.0 | 4,300.0 | 15,000 | |
| | 2/25/98 | -- | -- | 280 | 5,600 | -- | 570 | 285.0 | 520.0 | 116.00 | 2,900.0 | 9,300 | |
| | 2/14/01 | <1.0 | 306 | 306 | 11,000 | 4.40 | 7.70 | 1,000 | 324.0 | 780.0 | 236.00 | 5,236.0 | 20,000 |
| | 5/17/02 | <1.0 | 208 | 208 | 237 | 5.83 | 3.28 | 86.9 | 45.7 | 20.1 | 11.90 | 184.0 | 784 |
| | 10/23/02 | -- | -- | 168 | -- | -- | 96.8 | -- | -- | -- | -- | -- | 6.96 |
| | 5/21/03 | <1.0 | 290 | 290 | 6,600 | <8.00 | 10.90 | 875 | 238.0 | 475.0 | 96.50 | 3,410.0 | 13,200 |
| | 11/25/03 | <1.0 | 250 | 250 | 402 | 7.03 | 2.72 | 125 | 19.2 | 22.0 | 18.50 | 294.0 | 1,158 |
| | 5/12/04 | <1.00 | 264 | 264 | 504 | 7.31 | 2.70 | 136 | 17.2 | 23.1 | 22.40 | 355.0 | 1,328 |
| | 11/16/04 | <1.00 | 252 | 252 | 384 | 4.94 | 3.30 | 103 | 29.2 | 22.7 | 25.10 | 373.0 | 952 |
| | 11/16/05 | <1.00 | 262 | 262 | 1,210 D1 | 3.0 | 2.4 | 215 D1 | 85.400 | 92,600 | 23,000 | 847,000 | 2,640 N |
| | 11/14/06 | <1.0 | 200 | 200 | 96 | 4.2 | 2.0 | 76 | 13.200 | 6,490 | 15,600 | 172,000 | 624 |
| | 11/16/07 | <1.00 | 255 | 255 | 4,250 D1 | 3.7 | 3.90 D1 | 602 D1 | 154,000 | 187,000 | 54,000 | 2100,000 D1 | 10,900 |
| | 11/4/08 | <5.0 | 190 | 190 | 110 | 6.3 | 1.6 | 83 | 10 | 5.8 | 7.9 | 180 | 590 |
| MW-2 | 2/25/98 | -- | -- | 210 | 5,900 | -- | -- | 760 | 840.0 | 380.0 | 30.00 | 2,650.0 | 9,400 |
| | 4/9/98 | -- | -- | 290 | 8,200 | -- | -- | 990 | 4,100.0 | 490.0 | 29.00 | 3,630.0 | 15,000 |
| | 2/14/01 | <1.0 | 184 | 184 | 7,400 | 2.30 | 4.10 | 870 | 4,025.0 | 488.0 | 48.50 | 3,189.0 | 15,000 |
| | 5/17/02 | <1.0 | 160 | 160 | 3,200 | 1.72 | 3.18 | 483 | 567.0 | 239.0 | 35.60 | 1,160.0 | 6,040 |
| | 10/23/02 | -- | -- | 2,920 | -- | -- | 451 | -- | -- | -- | -- | -- | 6,770 |
| | 5/22/03 | <1.0 | 158 | 158 | 2,550 | 2.04 | 3.87 | 386 | 448.0 | 176.0 | 20.00 | 1,020.0 | 5,880 |
| | 11/25/03 | <1.0 | 160 | 160 | 3,330 | <4.00 | 5.63 | 446 | 555.0 | 227.0 | 32.00 | 1,120.0 | 6,760 |
| | 5/12/04 | <1.00 | 146 | 146 | 1,750 | <2.00 | 2.78 | 246 | 308.0 | 112.0 | 27.70 | 549.0 | 3,965 |
| | 11/16/04 | <1.00 | 120 | 120 | 430 | <1.00 | 2.13 | 56.9 | 104.0 | 29.4 | 22.40 | 158.0 | 832 |
| | 11/16/05 | <1.00 | 171 | 171 | 4,720 D1 | 0.72 | 2.6 | 645 D1 | 594,000 | 209,000 | 20,800 | 3,290,000 | 10,000 N |
| | 11/14/06 | <1.0 | 160 | 160 | 3,500 | 0.78 N | 2.1 | 470 | 535,000 | 212,000 | 21,000 | 1,540,000 | 8,260 |
| | 11/14/07 | <1.00 | 178 | 178 | 3,280 D1 | 0.76 | 1.93 | 462 D1 | 449,000 | 152,000 | 16,200 | 1310,000 D1 | 9,110 |
| | 11/4/08 | <5.0 | 150 | 150 | 2,900 | <1.0 | 1.1 | 430 | 380 | 160 | 26 | 1,200 | 5,600 |
| MW-2A | 2/26/98 | -- | -- | 190 | 280 | -- | -- | 330 | 144.0 | 36.0 | 5.70 | 215.0 | 1,200 |
| | 2/14/01 | <1.0 | 162 | 162 | 44 | 1.30 | 2.30 | 76 | 64.4 | 16.7 | 7.02 | 45.5 | 390 |
| | 5/15/02 | <1.0 | 176 | 176 | 36.6 | <1.00 | 2.34 | 79.1 | 57.6 | 13.9 | 4.35 | 43.8 | 435 |
| | 10/23/02 | -- | -- | 44.3 | -- | -- | 97 | -- | -- | -- | -- | -- | 425 |
| | 5/22/03 | <1.0 | 168 | 168 | 40.5 | <1.00 | 2.18 | 75.5 | 67.2 | 14.3 | 3.76 | 47.9 | 418 |
| | 11/25/03 | <1.0 | 166 | 166 | 43.1 | 1.00 | 2.23 | 77.4 | 51.7 | 14.4 | 3.98 | 43.8 | 452 |
| | 5/12/04 | <1.00 | 176 | 176 | 44.8 | <1.00 | 2.24 | 76.5 | 62.9 | 15.0 | 3.66 | 43.6 | 440 |
| | 11/16/04 | <1.00 | 164 | 164 | 52.5 | 1.22 | 2.78 | 75.4 | 68.8 | 15.3 | 3.98 | 49.1 | 428 |
| | 11/16/05 | <1.00 | 151 | 151 | 56.8 | 0.60 | 2.3 | 75.1 D1 | 157,000 | 18,000 | 4,200 | 49,800 | 630 N |
| | 11/14/06 | <1.0 | 180 | 180 | 49 | 0.55 | 1.6 | 76 | 69,800 | 15,600 | 3,470 | 49,900 | 488 |
| | 11/14/07 | <1.00 | 170 | 170 | 74.6 | 0.58 | 1.51 | 66.8 D1 | 666,000 | 15,300 | <5,000 | 45,400 | 504 |
| | 11/4/08 | <5.0 | 220 | 220 | 68 | 0.49 | 1.4 | 74 | 67 | 15 | 3.2 | 42 | 470 |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate | Bicarbonate | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS |
|--|-------------|------------|-------------|------------------|-----------|----------|-------------|----------|-----------|-----------|-----------|--------------|----------|
| | | Alkalinity | Alkalinity | Alkalinity | 250 | 1,600 | 10 | 600 | | | | | 1,000 |
| New Mexico Water Quality Control Commission Groundwater Standard | | | | | | | | | | | | | |
| MW-3 | 2/27/98 | -- | -- | 190 | 452 | -- | -- | 406 | 200.0 | 50.0 | 11.00 | 237.0 | 1,500 |
| | 2/14/01 | <1.0 | 158 | 158 | 34 | 1.60 | 2.40 | 100 | 54.5 | 19.0 | 7.61 | 48.6 | 440 |
| | 5/17/02 | <1.0 | 158 | 158 | 30.6 | 1.56 | 2.35 | 102 | 55.6 | 18.4 | 5.04 | 50.0 | 433 |
| | 10/23/02 | -- | -- | 35.4 | -- | -- | 104 | -- | -- | -- | -- | -- | 419 |
| | 5/22/03 | <1.0 | 156 | 156 | 30.6 | 1.17 | 2.25 | 96.3 | 53.2 | 17.8 | 5.39 | 54.6 | 435 |
| | 11/25/03 | <1.0 | 160 | 160 | 31.4 | 1.35 | 2.30 | 103 | 46.5 | 18.0 | 5.19 | 51.7 | 440 |
| | 5/12/04 | <1.00 | 164 | 164 | 32.3 | 1.20 | 2.38 | 101 | 52.2 | 16.8 | 4.77 | 47.5 | 448 |
| | 11/16/04 | <1.00 | 166 | 166 | 35.1 | 1.53 | 2.77 | 95.4 | 56.3 | 23.6 | 12.70 | 58.9 | 424 |
| | 11/17/05 | <10.0 | 171 | 171 | 96.3 | 0.97 | 2.2 | 108 D1 | 89.200 | 22,100 | 8.870 | 93,400 | 840 N |
| | 11/15/06 | <10 | 170 | 170 | 30 | 0.92 N | 1.7 | 96 | 51,300 | 17,300 | 4,300 | 57,200 | 505 |
| | 11/16/07 | <10.0 | 170 | 170 | 38.7 | 0.93 | 1.58 | 88.2 D1 | 50,800 | 16,300 | <5.00 | 50,600 | 570 |
| | 11/6/08 | <5.0 | 150 | 150 | 36 | 1.1 | 1.4 | 97 | 50 | 17 | 4.0 | 48 | 430 |
| MW-4 | 2/27/98 | -- | -- | 230 | 12,000 | -- | -- | 1,300 | 1,700.0 | 880.0 | 48.00 | 5,300.0 | 22,000 |
| | 4/19/98 | -- | -- | 240 | 13,000 | -- | -- | 1,500 | 1,740.0 | 840.0 | 42.00 | 5,400.0 | 23,000 |
| | 2/14/01 | <1.0 | 232 | 232 | 15,000 | 1.80 | 6.80 | 1,500 | -- | -- | -- | -- | 29,000 |
| | 5/17/02 | <1.0 | 232 | 232 | 11,300 | 2.01 | 6.09 | 1,380 | 1,610.0 | 814.0 | 60.90 | 4,310.0 | 22,600 |
| | 10/23/02 | -- | -- | 11,300 | -- | -- | 1,320 | -- | -- | -- | -- | -- | 23,200 |
| | 5/22/03 | <1.0 | 220 | 220 | 11,300 | <10.00 | 12.30 | 1,370 | 1,450.0 | 639.0 | 47.30 | 4,140.0 | 62,500 |
| | 11/26/03 | <1.0 | 218 | 218 | 12,100 | <8.00 | 12.30 | 1,400 | 1,830.0 | 889.0 | 62.00 | 4,620.0 | 54,450 |
| | 5/11/04 | <1.00 | 214 | 214 | 14,200 | <8.00 | 8.97 | 1,560 | 1,800.0 | 829.0 | 60.70 | 4,850.0 | 65,450 |
| | 11/17/04 | <1.00 | 222 | 222 | 13,600 | <20.00 | 31.50 | 1,410 | 20,010 | 972.0 | 73.60 | 5,900.0 | 25,200 |
| | 11/17/05 | <10.0 | 181 | 181 | 9,440 D1 | 0.82 | 0.20 | 45.8 D1 | 849,000 | 387,000 | 28,100 | 3,880,000 | 24,300 N |
| | 11/15/06 | <10 | 260 | 260 | 14,000 | <5.0 C | 5.2 | 1,400 | 1,750,000 | 897,000 | 58,800 | 6,150,000 | 28,700 |
| | 11/14/07 | <10.0 | 255 | 255 | 14,800 D1 | 0.54 | 715 D1 | 1,410 D1 | 1,170,000 | 382,000 | 48,000 | 4,760,000 D1 | 36,300 |
| | 11/12/08 | <5.0 | 200 | 200 | 12,000 | 1.2 | 0.33 | 1,390 | 1,500 | 840 | 82 | 4,800 | 22,000 |
| MW-4A | 2/27/98 | -- | -- | 180 | 1,600 | -- | -- | 410 | 470.0 | 130.0 | 11.00 | 620.0 | 3,300 |
| | 2/14/01 | <1.0 | 154 | 154 | 1,600 | 1.40 | 2.80 | 210 | -- | -- | -- | -- | 4,000 |
| | 5/15/02 | <1.0 | 156 | 156 | 577 | <1.00 | 2.23 | 121 | 200.0 | 49.5 | 10.30 | 125.0 | 1,610 |
| | 10/23/02 | -- | -- | 478 | -- | -- | 114 | -- | -- | -- | -- | -- | 1,430 |
| | 5/22/03 | <1.0 | 154 | 154 | 844 | <1.00 | 2.43 | 160 | 279.0 | 58.9 | 10.10 | 248.0 | 2,200 |
| | 11/26/03 | <1.0 | 158 | 158 | 1,060 | <4.00 | 5.82 | 182 | 337.0 | 79.3 | 15.20 | 329.0 | 2,585 |
| | 5/11/04 | <1.00 | 156 | 156 | 984 | <2.00 | 3.30 | 179 | 297.0 | 66.5 | 11.50 | 279.0 | 2,300 |
| | 11/17/04 | <1.00 | 164 | 164 | 1,110 | <2.00 | 4.62 | 186 | 369.0 | 75.4 | 14.90 | 413.0 | 2,235 |
| | 11/16/05 | <10.0 | 181 | 181 | 827 D1 | <0.5 | 2.2 | 160 D1 | 335,000 | 64,400 | 9,230 | 382,000 | 2,340 N |
| | 11/15/06 | <10 | 620 | 620 | 960 | <0.50 | 2.6 | 170 | 227,000 | 53,500 | 8,100 | 406,600 | 2,870 |
| | 11/14/07 | <10.0 | 311 | 311 | 845 D1 | 0.35 | 3,60 D1 | 167 D1 | 205,000 | 44,900 | 7,330 | 334,000 | 2,650 |
| | 11/12/08 | <5.0 | 640 | 640 | 650 | 0.32 | 2.2 | 170 | 160 | 37 | 9.9 | 290 | 1,700 |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate Alkalinity | Bicarbonate Alkalinity | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS | New Mexico Water Quality Control Commission Groundwater Standard | | | | |
|-----------|-------------|----------------------|------------------------|------------------|----------|----------|-------------|---------|---------|-----------|-----------|-------------|---------|--|--------|--------|--------|--------|
| | | | | | | | | | | | | | | 250 | 1,600 | 10 | 600 | |
| MW-5 | 2/26/98 | -- | -- | 180 | 6,600 | -- | 910 | 4,400.0 | 470.0 | 31.00 | 2,400.0 | 12,000 | 12,000 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 |
| | 2/14/01 | <1.0 | 166 | 166 | 7700 | 1,80 | 4.10 | 910 | -- | -- | 60.90 | 1,260.0 | 8,340 | 422 | 422 | 422 | 422 | 422 |
| | 5/17/02 | <1.0 | 156 | 156 | 4,040 | 1.53 | 4.56 | 586 | 757.0 | 319.0 | 60.90 | 1,260.0 | 8,340 | 422 | 422 | 422 | 422 | 422 |
| | 10/23/02 | -- | -- | -- | 3,900 | -- | -- | 94.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/22/03 | <1.0 | 158 | 158 | 3,170 | <4.00 | 6.52 | 550 | 644.0 | 215.0 | 49.90 | 1,240.0 | 7,860 | 422 | 422 | 422 | 422 | 422 |
| | 11/25/03 | <1.0 | 168 | 168 | 5,120 | <4.00 | 6.77 | 739 | 978.0 | 365.0 | 54.90 | 1,680.0 | 11,940 | 422 | 422 | 422 | 422 | 422 |
| | 5/11/04 | <1.00 | 160 | 160 | 6,760 | <3.00 | 4.65 | 1,030 | 4,180.0 | 417.0 | 40.30 | 2,120.0 | 20,380 | 422 | 422 | 422 | 422 | 422 |
| | 11/17/04 | <1.00 | 172 | 172 | 6,750 | <10 | 16.60 | 786 | 2,120.0 | 486.0 | 40.60 | 2,300.0 | 11,980 | 422 | 422 | 422 | 422 | 422 |
| | 11/17/05 | <10.0 | 161 | 161 | 2,440 D1 | 0.79 | 0.16 | 334 D1 | 339,000 | 126,000 | 10.800 | 791,000 | 7,120 N | 422 | 422 | 422 | 422 | 422 |
| | 11/14/06 | <10 | 160 | 160 | 2,000 | 0.60 | 1.5 | 300 | 437,000 | 173,000 | 14.200 | 918,000 | 4,420 | 422 | 422 | 422 | 422 | 422 |
| | 11/14/07 | <10.0 | 161 | 161 | 5,790 D1 | 0.37 | 4,01 D1 | 668 D1 | 812,000 | 240,000 | 23,300 | 1850,000 D1 | 16,300 | 422 | 422 | 422 | 422 | 422 |
| | 11/6/08 | <5.0 | 160 | 160 | 4,900 | 0.78 | 0.32 | 540 | 660 | 310 | 35 | 1,600 | 9,700 | 422 | 422 | 422 | 422 | 422 |
| MW-5A | 2/26/98 | -- | -- | 170 | 190 | -- | -- | 180 | 107.0 | 23.0 | 3.50 | 117.0 | 740 | 422 | 422 | 422 | 422 | 422 |
| | 2/15/01 | <1.0 | 164 | 164 | 140 | 1.20 | 2.10 | 130 | 90.2 | 27.9 | 8.70 | 74.6 | 670 | 422 | 422 | 422 | 422 | 422 |
| | 5/15/02 | <1.0 | 182 | 182 | 53.5 | <1.00 | 2.23 | 84.4 | 63.2 | 16.1 | 4.69 | 43.6 | 475 | 475 | 475 | 475 | 475 | 475 |
| | 10/23/02 | -- | -- | -- | 50 | -- | -- | 616 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/22/03 | <1.0 | 158 | 158 | 32.5 | <1.00 | 2.10 | 69.9 | 55.5 | 13.8 | 3.41 | 41.5 | 416 | 416 | 416 | 416 | 416 | 416 |
| | 11/25/03 | <1.0 | 332 | 332 | 34.1 | 1.05 | 2.20 | 75.5 | 60.9 | 14.6 | 4.08 | 45.0 | 422 | 422 | 422 | 422 | 422 | 422 |
| | 5/11/04 | <1.00 | 164 | 164 | 38.8 | <1.00 | 2.25 | 75.8 | 60.9 | 15.0 | 3.40 | 43.2 | 484 | 484 | 484 | 484 | 484 | 484 |
| | 11/17/04 | <1.00 | 152 | 152 | 39.6 | 1.37 | 2.66 | 74.3 | 58.1 | 13.6 | 3.83 | 48.5 | 430 | 430 | 430 | 430 | 430 | 430 |
| | 11/16/05 | <10.0 | 191 | 191 | 40.2 | 0.82 | 2.1 | 75.2 D1 | 176,000 | 17,800 | 4,220 | 45,300 | 570 N | 422 | 422 | 422 | 422 | 422 |
| | 11/14/06 | <10 | 240 | 240 | 47 | 0.64 | 1.5 | 79 | 90,400 | 16,100 | 3,580 | 51,400 | 588 | 422 | 422 | 422 | 422 | 422 |
| | 11/14/07 | <10.0 | 227 | 227 | 54.4 | 0.66 | 1.45 | 68.7 D1 | 73,700 | 14,000 | <5,000 | 44,200 | 528 | 422 | 422 | 422 | 422 | 422 |
| | 11/6/08 | <5.0 | 350 | 53 | 0.70 | 1.3 | 72 | 76 | 15 | 3.4 | 43 | 43 | 450 | 450 | 450 | 450 | 450 | 450 |
| MW-6 | 2/26/98 | -- | -- | 200 | 260 | -- | -- | 400 | 180.0 | 44.0 | 6.20 | 205.0 | 1,200 | 422 | 422 | 422 | 422 | 422 |
| | 2/14/01 | <1.0 | 158 | 158 | 59 | 1.70 | 2.20 | 99 | 67.5 | 22.1 | 7.67 | 52.3 | 470 | 422 | 422 | 422 | 422 | 422 |
| | 5/17/02 | <1.0 | 162 | 162 | 37.8 | 1.62 | 2.14 | 90.3 | 63.1 | 19.6 | 5.12 | 48.6 | 427 | 427 | 427 | 427 | 427 | 427 |
| | 10/23/02 | -- | -- | -- | 46.1 | -- | -- | 109 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/22/03 | <1.0 | 162 | 162 | 40.3 | 1.24 | 2.13 | 94.4 | 61.7 | 17.4 | 4.23 | 51.9 | 464 | 464 | 464 | 464 | 464 | 464 |
| | 11/25/03 | <1.0 | 154 | 154 | 53.6 | 1.40 | 2.18 | 98 | 53.6 | 18.7 | 4.97 | 51.7 | 482 | 482 | 482 | 482 | 482 | 482 |
| | 5/11/04 | <1.00 | 156 | 156 | 54.4 | 1.23 | 2.19 | 97 | 59.0 | 18.1 | 4.22 | 47.8 | 506 | 506 | 506 | 506 | 506 | 506 |
| | 11/16/04 | <1.00 | 162 | 162 | 57.9 | 1.64 | 2.68 | 99.8 | 66.6 | 19.6 | 5.16 | 57.0 | 464 | 464 | 464 | 464 | 464 | 464 |
| | 11/17/05 | <10.0 | 201 | 201 | 101 | 0.97 | 0.35 | 97.8 D1 | 103,000 | 20,200 | 4,100 | 59,100 | 730 N | 422 | 422 | 422 | 422 | 422 |
| | 11/15/06 | <10 | 750 | 68 | 0.99 | 1.5 | 93 | 64,600 | 20,400 | 4,230 | 57,100 | 507 | 422 | 422 | 422 | 422 | 422 | 422 |
| | 11/15/07 | <10.0 | 284 | 284 | 162 | 51 | 1.35 | 96.3 D1 | 84,100 | 25,200 | <5,000 | 62,100 | 630 | 422 | 422 | 422 | 422 | 422 |
| | 11/6/08 | <5.0 | 220 | 84 | 1.2 | 1.2 | 95 | 67 | 21 | 4.3 | 53 | 53 | 490 | 490 | 490 | 490 | 490 | 490 |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate | Bicarbonate | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS |
|---|-------------|------------|-------------|------------------|----------|----------|-------------|---------|---------|-----------|-----------|---------|-------|
| | | Alkalinity | Alkalinity | Alkalinity | 250 | 1,600 | 10 | 600 | | | | | 1,000 |
| New Mexico Water Quality Control Commission Groundwater Standard | | | | | | | | | | | | | |
| MW-7 | 5/14/98 | -- | -- | 230 | 430 | -- | 340 | 214.0 | 66.0 | 13.00 | 165.0 | 1,200 | |
| | 2/14/01 | <1.0 | 150 | 510 | 1.70 | 2.40 | 150 | 68.6 | 23.2 | 6.63 | 54.3 | 1,500 | |
| | 5/16/02 | <1.0 | 150 | 75.7 | 1.59 | 2.27 | 109 | -- | -- | -- | -- | 501 | |
| | 10/22/02 | -- | -- | 88.6 | -- | -- | 88.9 | 85.5 | 28.2 | 6.18 | 64.6 | 490 | |
| | 5/22/03 | <1.0 | 140 | 173 | 1.17 | 2.14 | 223 | 93.5 | 31.0 | 7.91 | 63.6 | 631 | |
| | 11/26/03 | <1.0 | 136 | 189 | 1.29 | 2.18 | 94.7 | 107.0 | 34.7 | 6.59 | 62.9 | 704 | |
| | 5/13/04 | <1.00 | 130 | 267 | 1.11 | 2.18 | 97.3 | 142.0 | 49.3 | 8.61 | 87.9 | 914 | |
| | 11/16/04 | <1.00 | 130 | 367 | 1.49 | 2.72 | 106 D1 | 412.000 | 64.700 | 12.100 | 100.000 | 1,440 N | |
| | 11/17/05 | <10.0 | 121 | 456 D1 | 0.53 | 0.28 | 110 | 202.000 | 70.300 | 7.400 | 102.000 | 2,100 | |
| | 11/15/06 | <10 | 240 | 550 | 0.63 | 1.5 | 139 | 144.000 | 59.500 | 9.950 | 148.000 | 1,880 | |
| | 11/15/07 | <10.0 | 189 | 458 D1 | 1.20 | 1.39 | 176 D1 | 210 | 76 | 12 | 120 | 1,600 | |
| | 11/12/08 | <5.0 | 110 | 650 | 0.84 | 1.2 | 140 | -- | -- | -- | -- | -- | |
| MW-8 | 5/13/98 | -- | -- | 200 | 270 | -- | 390 | 190.0 | 60.0 | 12.00 | 170.0 | 1,200 | |
| | 2/14/01 | <1.0 | 156 | 49 | 1.80 | 2.50 | 100 | 59.9 | 21.5 | 7.84 | 52.9 | 400 | |
| | 5/16/02 | <1.0 | 158 | 32.9 | 1.57 | 2.33 | 101 | 56.6 | 19.2 | 5.20 | 49.5 | 432 | |
| | 10/22/02 | -- | -- | 40.8 | -- | -- | 104 | -- | -- | -- | -- | 392 | |
| | 5/22/03 | 8 | 160 | 168 | 33.2 | 1.40 | 2.32 | 98.3 | 53.9 | 18.3 | 9.31 | 46.4 | |
| | 11/26/03 | <1.0 | 142 | 31.7 | 1.59 | 2.38 | 95.6 | 55.3 | 18.2 | 5.31 | 50.2 | 443 | |
| | 5/12/04 | <1.00 | 154 | 36.3 | 1.39 | 2.38 | 101 | 53.0 | 17.3 | 4.56 | 48.1 | 435 | |
| | 11/16/04 | <1.00 | 170 | 39.8 | 1.94 | 2.94 | 103 | 57.8 | 18.6 | 5.63 | 56.4 | 435 | |
| | 5/17/05 | 4 | 152 | 41 | 1.64 | 2.94 | 105 | 61.0 | 18.6 | 5.78 | 47.3 | 434 | |
| | 11/17/05 | <10.0 | 171 | 113 | 1.1 | <0.05 | 115 D1 | 83.400 | 21.700 | 5.740 | 102.000 | 750 N | |
| | 5/9/06 | <10 | 160 | 210 | 0.89 | 1.4 | 200 | 72.700 | 33.300 | 7.120 | 125.000 | 896 | |
| | 11/14/06 | <10 | 150 | 230 | 1.1 | 1.2 | 200 | 74.200 | 38.300 | 9.610 | 162.000 | 912 | |
| | 5/30/07 | <10 | 141 | 62 | 1.2 | 1.74 | 120 | 54.100 | 19.100 | <5 | 59.300 | 500 | |
| | 11/15/07 | <10.0 | 159 | 43.1 | 1.33 | 1.56 | 94.2 D1 | 52.100 | 17.200 | <5.000 | 49.800 | 540 | |
| | 5/15/08 | <1.53 | 151 | 40.7 | 1.40 | 1.78 | 99.6 D1 | 51.7 | 16.8 | 4.10 | 54.8 D1 | 427 | |
| | 11/12/08 | <5.0 | 140 | 39 | 1.4 | 1.5 | 97 | 52 | 17 | <2.6 | 46 | 350 | |
| MW-9 | 5/14/98 | -- | -- | 190 | 350 | -- | 470 | 207.0 | 61.0 | 12.00 | 200.0 | 1,300 | |
| | 2/15/01 | <1.0 | 156 | 35 | 2.60 | 2.40 | 110 | 60.4 | 19.8 | 7.47 | 47.0 | 430 | |
| | 5/16/02 | <1.0 | 160 | 31.7 | 2.22 | 2.28 | 99.4 | 60.8 | 17.6 | 5.32 | 50.1 | 440 | |
| | 10/23/02 | -- | -- | 39 | -- | -- | 102 | -- | -- | -- | -- | 436 | |
| | 5/22/03 | <1.0 | 160 | 31 | 1.75 | 2.19 | 93.3 | 52.2 | 15.8 | 4.75 | 50.2 | 455 | |
| | 11/26/03 | <1.0 | 150 | 31.8 | 1.99 | 2.34 | 99.8 | 57.7 | 16.6 | 4.69 | 46.3 | 452 | |
| | 5/12/04 | <1.00 | 164 | 33.6 | 1.79 | 2.29 | 99.2 | 54.8 | 16.0 | 4.27 | 43.5 | 467 | |
| | 11/16/04 | 8 | 154 | 162 | 367 | 1.49 | 2.72 | 97.3 | 63.2 | 17.8 | 5.59 | 55.5 | 433 |
| | 5/17/05 | 4 | 154 | 44.2 | 2.43 | 3.05 | 117 | 58.8 | 16.7 | 5.94 | 44.1 | 434 | |
| | 11/17/05 | <10.0 | 161 | 83.5 | 1.3 | 0.14 | 111 D1 | 149.000 | 26.200 | 7.430 | 80.400 | 790 N | |
| | 5/9/06 | <10 | 170 | 37 | 1.8 | 1.8 | 99 | 52.700 | 15.000 | 3.210 | 45.500 | 428 | |
| | 11/15/06 | <10 | 150 | 210 | 1.1 | 1.2 | 190 | 70.500 | 35.800 | 8.640 | 152.000 | 905 | |
| | 5/30/07 | <10 | 153 | 35 | 2.1 | 1.69 | 110 | 52.200 | 15.800 | <5 | 44.700 | 464 | |
| | 11/14/07 | <10.0 | 151 | 186 | 1.49 | 1.48 | 156 D1 | 74.100 | 39.400 | 8.730 | 141.000 | 808 | |
| | 5/15/08 | <1.53 | 174 | 42.5 | 2.38 | 1.72 | 105 D1 | 55.6 | 17.0 | 3.99 | 54.1 D1 | 467 | |
| | 11/4/08 | <5.0 | 160 | 39 | 2.1 | 1.4 | 98 | 54 | 16 | 3.7 | 47 | 440 | |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate Alkalinity | Bicarbonate Alkalinity | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS | New Mexico Water Quality Control Commission Groundwater Standard | | | | |
|-----------|-------------|----------------------|------------------------|------------------|----------|----------|-------------|---------|---------|-----------|-----------|--------|---------|--|-------|-------|-----|-----|
| | | | | | | | | | | | | | | 250 | 1,600 | 10 | 600 | |
| MW-9A | 5/14/98 | -- | -- | 280 | 600 | -- | -- | 770 | 338.0 | 96.0 | 12.00 | 334.0 | 46.0 | 400 | 334.0 | 2,200 | | |
| | 2/15/01 | <1.0 | 142 | 85 | 140 | 2.20 | 71 | 71.6 | 6.94 | 4.62 | 4.62 | 46.8 | 445 | | | | | |
| | 5/15/02 | <1.0 | 136 | 136 | 148 | <100 | 2.18 | 65.3 | 62.9 | 16.1 | 16.1 | 4.62 | | | | | | |
| | 10/23/02 | -- | -- | 168 | -- | -- | 75.5 | -- | -- | -- | -- | -- | | | | | | 651 |
| | 5/22/03 | <1.0 | 126 | 126 | 207 | <100 | 2.09 | 62.1 | 102.0 | 25.2 | 4.80 | 4.80 | 55.7 | 672 | | | | |
| | 11/26/03 | <1.0 | 118 | 118 | 216 | 1.14 | 2.26 | 62.7 | 107.0 | 25.1 | 5.31 | 5.31 | 53.2 | 648 | | | | |
| | 5/12/04 | <1.00 | 122 | 122 | 242 | <1.00 | 2.10 | 64.7 | 105.0 | 26.2 | 5.11 | 5.11 | 26.2 | 950 | | | | |
| | 11/16/04 | <1.00 | 114 | 114 | 296 | 1.24 | 2.74 | 67.5 | 130.0 | 33.1 | 6.24 | 6.24 | 70.3 | 826 | | | | |
| | 5/17/05 | <1.00 | 112 | 112 | 354 | 1.04 | 2.85 | 77.1 | 131.0 | 31.7 | 6.39 | 6.39 | 60.5 | 828 | | | | |
| | 11/17/05 | <1.00 | 121 | 121 | 310 D1 | 0.82 | 0.31 | 74.7 D1 | 337.000 | 41.400 | 8.080 | 8.080 | 74.500 | 1,520 N | | | | |
| | 5/9/06 | <1.0 | 670 | 670 | 270 | 0.67 | 1.6 | 78 | 111.000 | 27.100 | 3.880 | 3.880 | 56.700 | 992 | | | | |
| | 11/15/06 | <1.0 | 1,600 | 1,600 | 290 | 0.62 | 1.6 | 72 | 126.000 | 33.400 | 4.740 | 4.740 | 68.400 | 1,280 | | | | |
| | 5/30/07 | <1.0 | 586 | 400 | 400 | 0.7 | 1.69 | 83 | 153.000 | 36.900 | <5 | <5 | 71.800 | 1,450 | | | | |
| | 11/14/07 | <10.0 | 605 | 605 | 285 D1 | 0.62 | 1.52 | 64.7 D1 | 153.000 | 35.400 | 5.030 | 5.030 | 70.700 | 1,430 | | | | |
| | 5/15/08 | <1.53 | 738 | 738 | 380 D1 | 0.45 | 1.62 | 86.8 D1 | 146 | 35.5 | 5.45 | 5.45 | 77.2 D1 | 1,390 | | | | |
| | 11/4/08 | <5.0 | 370 | 370 | 330 | <1.0 | 1.2 | 84 | 150 | 32 | 5.1 | 66 | 66 | 1,000 | | | | |
| MW-10 | 5/14/98 | -- | -- | 240 | 360 | -- | -- | 450 | 211.0 | 62.0 | 11.00 | 11.00 | 190.0 | 1,400 | | | | |
| | 2/15/01 | <1.0 | 140 | 140 | 190 | 2.00 | 2.30 | 97 | 108.0 | 32.3 | 8.20 | 8.20 | 61.0 | 660 | | | | |
| | 5/17/02 | <1.0 | 152 | 152 | 204 | 1.93 | 2.19 | 99.1 | 109.0 | 31.7 | 7.60 | 7.60 | 62.4 | 713 | | | | |
| | 10/22/02 | -- | -- | 213 | -- | -- | 108 | -- | -- | -- | -- | -- | -- | 758 | | | | |
| | 5/22/03 | <1.0 | 152 | 152 | 213 | 1.45 | 2.17 | 96.6 | 109.0 | 29.9 | 8.65 | 8.65 | 74.2 | 764 | | | | |
| | 11/26/03 | <1.0 | 152 | 152 | 220 | 1.54 | 2.26 | 103 | 120.0 | 35.7 | 6.96 | 6.96 | 64.0 | 752 | | | | |
| | 5/13/04 | <1.00 | 158 | 158 | 232 | 1.39 | 2.23 | 102 | 114.0 | 31.6 | 5.95 | 5.95 | 57.2 | 802 | | | | |
| | 11/17/04 | <1.00 | 170 | 170 | 245 | 1.73 | 2.78 | 104 | 121.0 | 35.7 | 7.07 | 7.07 | 70.3 | 764 | | | | |
| | 5/17/05 | <1.00 | 150 | 150 | 233 | 1.77 | 2.80 | 106 | 113.0 | 32.3 | 6.83 | 6.83 | 60.2 | 776 | | | | |
| | 11/17/05 | <10.0 | 151 | 151 | 205 D1 | 1.2 | 0.26 | 111 D1 | 482.000 | 47.400 | 13.100 | 13.100 | 82.400 | 970 N | | | | |
| | 5/9/06 | <1.0 | 190 | 180 | 140 | 1.4 | 1.6 | 98 | 93.300 | 27.100 | 4.310 | 4.310 | 60.400 | 724 | | | | |
| | 11/16/06 | <1.0 | 320 | 320 | 190 | 1.2 | 1.6 | 92 | 101.000 | 30.000 | 4.750 | 4.750 | 64.100 | 900 | | | | |
| | 5/30/07 | <1.0 | 340 | 340 | 200 | 1.4 | 1.68 | 110 | 101.000 | 28.600 | <5 | <5 | 62.400 | 820 | | | | |
| | 11/15/07 | <10.0 | 189 | 189 | 251 D1 | 1.44 | 1.44 | 152 D1 | 104.000 | 33.400 | 6.010 | 6.010 | 84.700 | 1,010 | | | | |
| | 5/15/08 | <1.53 | 374 | 374 | 342 D1 | 1.47 | 1.28 | 257 D1 | 106 | 52.9 | 11.7 | 11.7 | 165 D1 | 1,140 | | | | |
| | 11/6/08 | <5.0 | 150 | 150 | 210 | 1.5 | 1.3 | 89 | 110 | 32 | 5.4 | 64 | 64 | 730 | | | | |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate Alkalinity | Bicarbonate Alkalinity | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS | New Mexico Water Quality Control Commission Groundwater Standard | | | |
|-----------|-------------|----------------------|------------------------|------------------|----------|----------|-------------|---------|---------|-----------|------------|---------|-------|--|-------|----|-----|
| | | | | | | | | | | | | | | 250 | 1,600 | 10 | 600 |
| MW-11 | 1/22/99 | 30 | <1.0 | 30 | 46 | 2.30 | 4.20 | 94 | 33.0 | 7.0 | 9.10 | 58.0 | 370 | | | | |
| | 2/15/01 | <1.0 | 156 | 156 | 37 | 2.40 | 2.40 | 120 | 64.0 | 19.1 | 7.83 | 50.1 | 360 | | | | |
| | 5/16/02 | <1.0 | 160 | 160 | 31.9 | 2.13 | 2.33 | 98.8 | 63.5 | 17.2 | 4.83 | 47.0 | 444 | | | | |
| | 10/23/02 | -- | -- | -- | 37.2 | -- | -- | 102 | -- | -- | -- | -- | -- | | | | |
| | 5/22/03 | 12 | 154 | 166 | 32.3 | 1.74 | 2.28 | 96.7 | 62.3 | 0.0 | 4.63 | 47.6 | 437 | | | | |
| | 11/26/03 | <1.0 | 160 | 160 | 32.4 | 1.83 | 2.23 | 96.4 | 59.2 | 16.6 | 4.67 | 48.6 | 448 | | | | |
| | 5/12/04 | <1.00 | 164 | 164 | 34.6 | 1.71 | 2.38 | 97.7 | 54.8 | 15.7 | 4.28 | 46.2 | 457 | | | | |
| | 11/16/04 | <1.00 | 160 | 160 | 39 | 2.17 | 1.00 | 100 | 65.2 | 16.8 | 5.14 | 54.3 | 454 | | | | |
| | 4 | 158 | 162 | 43.1 | 1.87 | 2.82 | 94.6 | 68.4 | 16.9 | 6.45 | 44.0 | 429 | | | | | |
| | 11/17/05 | <10.0 | 161 | 58.1 | 1.5 | 2.1 | 91.3 D1 | 75.000 | 17.700 | 4.550 | 64.700 | 700 N | | | | | |
| | 5/9/06 | <1.0 | 180 | 180 | 37 | 1.8 | 1.7 | 100 | 54.100 | 16.200 | 3.260 | 46.900 | 456 | | | | |
| | 11/14/06 | <1.0 | 170 | 170 | 34 | 1.8 | 1.8 | 110 | 58.000 | 18.200 | 4.130 | 53.400 | 532 | | | | |
| | 5/30/07 | <1.0 | 142 | 142 | 36 | 1.9 | 1.79 | 120 | 54.000 | 16.700 | <5 | 50.800 | 456 | | | | |
| | 11/14/07 | <10.0 | 189 | 189 | 42.3 | 1.88 | 1.54 | 95.6 D1 | 57.200 | 17.400 | <5.000 | 52.400 | 452 | | | | |
| | 5/15/08 | <1.53 | 177 | 177 | 724 D1 | 1.86 | 1.71 | 141 | 58.0 | 19.4 | 4.93 | 66.5 D1 | 544 | | | | |
| | 11/4/08 | <5.0 | 170 | 170 | 49 | 1.5 | 1.3 | 90 | 60 | 16 | 3.6 | 47 | 440 | | | | |
| MW-12 | 5/15/02 | <1.0 | 160 | 160 | 58.3 | 1.09 | 2.44 | 91.3 | 53.5 | 15.9 | 5.52 | 50.3 | 462 | | | | |
| | 10/23/02 | -- | -- | -- | 65 | -- | -- | 102 | -- | -- | -- | -- | -- | | | | |
| | 5/22/03 | <1.0 | 148 | 148 | 91.1 | 1.04 | 2.30 | 87.7 | 74.2 | 21.0 | 4.89 | 57.6 | 516 | | | | |
| | 11/25/03 | <1.0 | 142 | 142 | 93.1 | 1.18 | 2.36 | 90.9 | 74.7 | 20.9 | 5.41 | 52.5 | 548 | | | | |
| | 5/12/04 | <1.00 | 458 | 458 | 72.9 | 1.04 | 2.35 | 86.7 | 58.1 | 19.0 | 5.92 | 51.8 | 489 | | | | |
| | 11/15/04 | <1.00 | 184 | 184 | 79.8 | 1.39 | 2.83 | 88.8 | 59.7 | 21.5 | 16.50 | 77.4 | 512 | | | | |
| | 11/17/05 | <10.0 | 151 | 151 | 109 | 0.93 | 0.12 | 94.6 D1 | 193.000 | 26.600 | 13.400 | 87.500 | 700 N | | | | |
| | 11/16/06 | <1.0 | 270 | 270 | 120 | 0.71 | 1.7 | 84 | 82.300 | 27.000 | 4.820 | 62.200 | 620 | | | | |
| | 11/16/07 | <10.0 | 170 | 170 | 288 D1 | 1.21 | 1.55 | 191 D1 | 77.200 | 42.700 | 11.000 | 154.000 | 1,270 | | | | |
| | 11/6/08 | <5.0 | 130 | 130 | 110 | 0.89 | 1.4 | 79 | 61 | 20 | 4.5 | 52 | 460 | | | | |
| MW-13 | 5/13/02 | <1.0 | 100 | 100 | 517 | <1.00 | 1.61 | 437 | 116.0 | 76.0 | 19.40 | 269.0 | 1,596 | | | | |
| | 10/23/02 | -- | -- | -- | 549 | -- | -- | 370 | -- | -- | -- | -- | -- | | | | |
| | 5/22/03 | <1.0 | 186 | 944 | <2.00 | 2.33 | 361 | 289.0 | 101.0 | 15.30 | 458.0 | 3,060 | | | | | |
| | 11/25/03 | <1.0 | 226 | 1,460 | <2.00 | 2.22 | 372 | 369.0 | 117.0 | 20.00 | 478.0 | 3,445 | | | | | |
| | 5/12/04 | <1.00 | 234 | 1,550 | <4.00 | 4.58 | 369 | 384.0 | 114.0 | 18.60 | 485.0 | 4,240 | | | | | |
| | 11/15/04 | <1.00 | 226 | 1,870 | <2.00 | 4.92 | 384 | 510.0 | 164.0 | 16.50 | 627.0 | 3,600 | | | | | |
| | 11/17/05 | <10.0 | 201 | 722 D1 | 1.0 | 2.5 | 266 D1 | 786.000 | 91.600 | 19.700 | 276.000 | 2,550 N | | | | | |
| | 11/16/06 | <1.0 | 1,500 | 2,000 | <0.50 N | 2.7 | 500 N | 529.000 | 176.000 | 14.200 | 493.000 | 5,060 | | | | | |
| | 11/16/07 | <10.0 | 236 | 2,000 D1 | 0.33 | 3.05 D1 | 312 D1 | 361.000 | 103.000 | 11.400 | 553.000 D1 | 6,320 | | | | | |
| | 11/6/08 | <5.0 | 180 | 970 | 0.98 | 1.8 | 280 | 240 | 96 | 17 | 370 | 2,400 | | | | | |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Carbonate Alkalinity | Bicarbonate Alkalinity | Total Alkalinity | Chloride | Fluoride | Nitrate - N | Sulfate | Calcium | Magnesium | Potassium | Sodium | TDS | 1,000 |
|-----------|-------------|----------------------|------------------------|------------------|----------|----------|-------------|---------|---------|-----------|-----------|-------------|---------|-------|
| | | | | | | | | | | | | | | |
| RW-1 | 5/27/99 | 0 | 224 | 224 | 8,700 | 2.70 | 7.00 | 840 | 679.0 | 521.0 | 34.00 | 3,290 | 14,000 | |
| | 5/22/03 | <1.0 | 190 | 190 | 2,410 | 2.46 | 4.23 | 345 | 162.0 | 145.0 | 25.40 | 1,180.0 | 5,260 | |
| | 11/26/03 | <1.0 | 184 | 184 | 1,990 | <4.00 | 20.00 | 324 | 199.0 | 147.0 | 38.60 | 1,080.0 | 5,080 | |
| | 5/11/04 | <1.00 | 148 | 148 | 491 | 1.32 | 2.65 | 109 | 66.3 | 23.4 | 11.20 | 252.0 | 1,224 | |
| | 11/17/04 | <1.00 | 160 | 160 | 633 | 1.65 | 3.23 | 121 | 89.7 | 43.5 | 18.00 | 382.0 | 1,314 | |
| | 11/17/05 | <10.0 | 221 | 221 | 895 D1 | 1.0 | 1.4 | 166 D1 | 122.000 | 70.900 | 8.40 | 493.000 | 2,280 N | |
| | 11/16/06 | <10 | 380 | 380 | 11,000 | <0.50 | <20 HC | 1,100 | 539,000 | 694,000 | 43.300 | 5,580,000 | 22,000 | |
| | 11/15/07 | <10.0 | 359 | 359 | 2,380 D1 | 1.26 | 3.74 D1 | 252 D1 | 141,000 | 137,000 | 16,000 | 1100,000 D1 | 5,280 | |
| | DUP | <10.0 | 208 | 208 | 2,420 D1 | 1.24 | 3.85 D1 | 316 D1 | 136,000 | 133,000 | 15,500 | 1010,000 D1 | 5,360 | |
| | 11/12/08 | <5.0 | 210 | 210 | 370 | 0.82 | 1.9 | 97 | 66 | 34 | 5.0 | 190 | 920 | |
| RW-2 | 5/22/03 | 324 | <4.00 | 780 | 1,580 | <2.00 | 2.43 | 23.9 | 1,060.0 | <0.500 | 20.20 | 258.0 | 4,310 | |
| | 11/26/03 | 64 | <4.00 | 794 | 1,480 | <5.00 | 5.81 | 38.3 | 988.0 | <0.500 | 23.80 | 240.0 | 3,555 | |
| | 5/13/04 | 36.0 | <4.00 | 578 | 1,770 | <3.00 | 3.19 | 67 | 898.0 | <0.500 | 21.60 | 260.0 | 4,175 | |
| | 11/17/04 | 104.0 | <4.00 | 692 | 2,280 | <10.0 | <10.0 | 116 | 1180.0 | <0.500 | 18.50 | 415.0 | 3,915 | |
| | 11/17/05 | 281 | <10.0 | 422 | 1,770 D1 | 0.89 | 0.60 | 175 D1 | 861,000 | 16,600 | 13,100 | 361,000 | 7,350 N | |
| | 11/16/06 | 49 | 150 | 199 | 2,500 | 0.57 | 1.9 | 370 | 978,000 | 48,800 | 18,000 | 437,000 | 5,270 | |
| | 11/15/07 | 170 | 37.8 | 208 | 1,680 D1 | 0.49 | 1.52 | 166 D1 | 586,000 | <5,000 | 11,200 | 245,000 | 5,590 | |
| | 11/12/08 | 150 | <5.0 | 390 | 2,500 | <0.50 | 0.24 | 250 | 1,200 | <0.38 | 6.0 | 400 | 4,800 | |

Notes:

1. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQC) exceedance.

2. Results shown in mg/L.

3. N - See narrative in laboratory report for a detailed explanation.

4. D1 - The analysis was performed at a dilution due to the high analyte concentration.

5. H - The analysis was performed past holding time.

6. C - Elevated detection limit due to matrix effect.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

JOB NUMBER: 354242
Project ID: COOPER JAIL LEA COUNTY NM

Prepared For:

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

Attention: Todd Wells

Date: 06/03/2008

Sachin G. Kudchadkar
Signature

06/03/08
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 1

S A M P L E I N F O R M A T I O N
Date: 06/03/2008

Job Number.: 354242
 Customer...: Conestoga-Rovers and Associates
 Attn.....: Todd Wells

Project Number.....: 99007835
 Customer Project ID....: COOPER JAL LEA COUNTY NM
 Project Description....: Chevron

| Laboratory Sample ID | Customer Sample ID | Sample Matrix | Date Sampled | Time Sampled | Date Received | Time Received |
|----------------------|--------------------|---------------|--------------|--------------|---------------|---------------|
| 354242-1 | MW-8 | Water | 05/15/2008 | 14:40 | 05/16/2008 | 09:29 |
| 354242-2 | MW-9 | Water | 05/15/2008 | 13:50 | 05/16/2008 | 09:29 |
| 354242-3 | MW-9A | Water | 05/15/2008 | 13:35 | 05/16/2008 | 09:29 |
| 354242-4 | MW-10 | Water | 05/15/2008 | 14:10 | 05/16/2008 | 09:29 |
| 354242-5 | MW-11 | Water | 05/15/2008 | 12:40 | 05/16/2008 | 09:29 |
| 354242-6 | DUPE | Water | 05/15/2008 | 00:00 | 05/16/2008 | 09:29 |

| L A B O R A T O R Y T E S T R E S U L T S | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|-------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | PROJECT: COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 51.7 | | 0.02185 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1017 | STP | |
| | Magnesium (Mg), Diss. | 16.8 | | 0.01604 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1017 | STP | |
| | Potassium (K), Diss. | 4.10 | | 0.08121 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1017 | STP | |
| | Potassium (Na), Diss. | 54.8 | | 0.20000 | 20.00 | 10 | ng/L | 199712 | 05/29/08 1240 | STP | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 151 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 151 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 427 | | 1.533 | 10 | 1 | mg/L | 199101 | 05/16/08 1600 | daw | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 40.7 | | 0.15 | 0.50 | 1 | ng/L | 199085 | 05/16/08 1407 | sur | |
| | Fluoride (F), Water | 1.40 | | 0.10 | 0.30 | 1 | ng/L | 199085 | 05/16/08 1407 | sur | |
| | Sulfate (SO ₄), Water | 99.6 | | 3.4 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1422 | sur | |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | 1.78 | | 0.19 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1407 | sur | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 0.065 | U | 0.065 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1407 | 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 | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|-------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | PROJECT: COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 55.6 | | 0.02185 | 2.000 | 1 | | | | | |
| | Magnesium (Mg), Diss. | 17.0 | | 0.01604 | 2.000 | 1 | | | | | |
| | Potassium (K), Diss. | 3.99 | | 0.08121 | 2.000 | 1 | | | | | |
| | Sodium (Na), Diss. | 54.1 | | 0.2000 | 20.00 | 10 | | | | | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 174 | | 1.53 | 5.0 | 1 | | | | | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 174 | | 1.53 | 5.0 | 1 | | | | | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | | | | | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 467 | | 1.533 | 10 | 1 | | | | | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 42.5 | | 0.15 | 0.50 | 1 | | | | | |
| | Fluoride (F), Water | 2.38 | | 0.10 | 0.30 | 1 | | | | | |
| | Sulfate (SO ₄), Water | 105 | | 3.4 | 5.0 | 10 | | | | | |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | 1.72 | | 0.19 | 0.20 | 1 | | | | | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 0.065 | U | 0.065 | 0.20 | 1 | | | | | |

* 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 | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|--------------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | P R O J E C T : COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 146 | | 0.02185 | 2.000 | 1 | | | | | |
| | Magnesium (Mg), Diss. | 35.5 | | 0.01604 | 2.000 | 1 | | | | | |
| | Potassium (K), Diss. | 5.45 | | 0.08121 | 2.000 | 1 | | | | | |
| | Sodium (Na), Diss. | 77.2 | | 0.20000 | 20.00 | 10 | | | | | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 738 | | 1.53 | 5.0 | 1 | | | | | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 738 | | 1.53 | 5.0 | 1 | | | | | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | | | | | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 1390 | | 1.533 | 10 | 1 | | | | | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 380 | | 1.5 | 5.0 | 10 | | | | | |
| | Fluoride (F), Water | 0.45 | | 0.10 | 0.30 | 1 | | | | | |
| | Sulfate (SO ₄), Water | 86.8 | | 3.4 | 5.0 | 10 | | | | | |
| EPA 300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | 1.62 | | 0.19 | 0.20 | 1 | | | | | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 0.065 | U | 0.065 | 0.20 | 1 | | | | | |

* 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 | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|-------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | PROJECT: COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 106 | | 0.02185 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1100 | STP | |
| | Magnesium (Mg), Diss. | 52.9 | | 0.01604 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1100 | STP | |
| | Potassium (K), Diss. | 11.7 | | 0.08121 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1100 | STP | |
| | Potassium (Na), Diss. | 165 | | 0.20000 | 20.00 | 10 | ng/L | 199712 | 05/29/08 1318 | STP | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 374 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 374 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 1140 | | 1.533 | 10 | 1 | mg/L | 199101 | 05/16/08 1600 | daw | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 342 | | 1.5 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1556 | sur | |
| | Fluoride (F), Water | 1.47 | | 0.10 | 0.30 | 1 | ng/L | 199085 | 05/16/08 1540 | sur | |
| | Sulfate (SO ₄), Water | 257 | | 3.4 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1556 | sur | |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | | | | | | | | | | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 1.28 | | 0.19 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1540 | sur | |
| | | 0.065 | U | 0.065 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1540 | 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 | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|-------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | PROJECT: COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 58.0 | | 0.02185 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1104 | STP | |
| | Magnesium (Mg), Diss. | 19.4 | | 0.01604 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1104 | STP | |
| | Potassium (K), Diss. | 4.93 | | 0.08121 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1104 | STP | |
| | Potassium (Na), Diss. | 66.5 | | 0.2000 | 20.00 | 10 | ng/L | 199712 | 05/29/08 1331 | STP | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 177 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 177 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 544 | | 1.533 | 10 | 1 | mg/L | 199101 | 05/16/08 1600 | daw | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 72.4 | | 1.5 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1659 | sur | |
| | Fluoride (F), Water | 1.86 | | 0.10 | 0.30 | 1 | ng/L | 199085 | 05/16/08 1643 | sur | |
| | Sulfate (SO ₄), Water | 141 | | 3.4 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1659 | sur | |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | 1.71 | | 0.19 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1643 | sur | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 0.065 | U | 0.065 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1643 | 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 | | | | | | Date: 06/03/2008 | | | | | |
|---|--|---------------|--------------------------------------|---------|-------|------------------|-------|--------|---------------|-----------|------|
| C U S T O M E R : Conestoga-Rovers and Associates | | | P R O J E C T : COOPER JAL LEA COUNT | | | ATTN: Todd Wells | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
| SM-846 3005A | Acid Digestion, Diss. | Complete | | | | 1 | | 199632 | 05/28/08 1550 | rim | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | |
| | Calcium (Ca), Diss. | 51.3 | | 0.02185 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1107 | STP | |
| | Magnesium (Mg), Diss. | 16.8 | | 0.01604 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1107 | STP | |
| | Potassium (K), Diss. | 4.19 | | 0.08121 | 2.000 | 1 | ng/L | 199712 | 05/29/08 1107 | STP | |
| | Sodium (Na), Diss. | 55.3 | | 0.20000 | 20.00 | 10 | ng/L | 199712 | 05/29/08 1335 | STP | |
| SM 2320 B | Alkalinity, Total as CaCO ₃ , Water | 151 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Bicarbonate (HCO ₃), Water | 151 | | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2320 B | Carbonate (CO ₃), Water | 1.53 | U | 1.53 | 5.0 | 1 | mg/L | 199280 | 05/21/08 1425 | sng | |
| SM 2540C | Solids, Total Dissolved (TDS), Water | 443 | | 1.533 | 10 | 1 | mg/L | 199101 | 05/16/08 1600 | daw | |
| EPA 300.0 | Ion Chromatography Analysis | | | | | | | | | | |
| | Chloride, Water | 41.6 | | 0.15 | 0.50 | 1 | ng/L | 199085 | 05/16/08 1714 | sur | |
| | Fluoride (F), Water | 1.44 | | 0.10 | 0.30 | 1 | ng/L | 199085 | 05/16/08 1714 | sur | |
| | Sulfate (SO ₄), Water | 102 | | 3.4 | 5.0 | 10 | ng/L | 199085 | 05/16/08 1730 | sur | |
| EPA 300.0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO ₃ -N), Water | 1.75 | | 0.19 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1714 | sur | |
| | Nitrogen, Nitrite as N (NO ₂ -N), Water | 0.065 | U | 0.065 | 0.20 | 1 | ng/L | 199085 | 05/16/08 1714 | sur | |

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN: Todd Wells

Test Method.....: SM 2320 B
 Method Description.: Alkalinity
 Parameter.....: Alkalinity, Total as CaCO₃

Units.....: mg/L CaCO₃
 Batch(s)....: 199280

Analyst...: sng
 Test Code.: ALK

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|-----|------------|---------|-----------|-----------|-------------|-------------|----------------|-----------|---|------------|------|
| DU | 354238-12 | | 4112.41 | | | 4112.41 | 0.0 | 20 | | 05/21/2008 | 1425 |
| MS | 354438-6 | WC4081A | 396.32 | | 250.000000 | 181.18 | 86.1 | 75-125 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| DU | 354242-5 | | 179.29 | | | 177.40 | 1.1 | 20 | | 05/21/2008 | 1425 |
| MS | 354238-12 | WC4081A | 6598.98 | | 2500.000000 | 4112.41 | 99.5 | 75-125 | | 05/21/2008 | 1425 |
| DU | 354438-6 | | 181.18 | | | 181.18 | 0.0 | 20 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| LCS | 199280--21 | WC4050 | 943.62 | | 1000.0 | | 94.4 | 90.0-110. | | 05/21/2008 | 1425 |
| DU | 354100-1 | | 535.98 | | | 534.09 | 0.4 | 20 | | 05/21/2008 | 1425 |
| MS | 354100-1 | WC4081A | 764.33 | | 250.000000 | 534.09 | 92.1 | 75-125 | | 05/21/2008 | 1425 |
| LCS | 199280--21 | WC4050 | 943.62 | | 1000.0 | | 94.4 | 90.0-110. | | 05/21/2008 | 1425 |
| MS | 354242-5 | WC4081A | 407.64 | | 250.000000 | 177.40 | 92.1 | 75-125 | | 05/21/2008 | 1425 |

Test Method.....: SM 2320 B
 Method Description.: Alkalinity
 Parameter.....: Bicarbonate (HCO₃)

Units.....: mg/L CaCO₃
 Batch(s)....: 199280

Analyst...: sng
 Test Code.: HCO₃

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|----|------------|---------|-----------|-----------|------------|-------------|----------------|--------|---|------------|------|
| DU | 354242-5 | | 179.29 | | | 177.40 | 1.1 | 20 | | 05/21/2008 | 1425 |
| DU | 354438-6 | | 181.18 | | | 181.18 | 0.0 | 20 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| DU | 354100-1 | | 535.98 | | | 534.09 | 0.4 | 20 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |

Test Method.....: SM 2320 B
 Method Description.: Alkalinity
 Parameter.....: Carbonate (CO₃)

Units.....: mg/L CaCO₃
 Batch(s)....: 199280

Analyst...: sng
 Test Code.: CO₃

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|----|------------|---------|-----------|-----------|------------|-------------|----------------|--------|---|------------|------|
| DU | 354100-1 | | 0 | | | 0 | 0 | 5 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 0 | | | | | | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 0 | | | | | | | 05/21/2008 | 1425 |
| DU | 354242-5 | | 0 | | | 0 | 0 | 5 | | 05/21/2008 | 1425 |
| DU | 354438-6 | | 0 | | | 0 | 0 | 5 | | 05/21/2008 | 1425 |

Test Method.....: SM 2540C
 Method Description.: Solids, Total Dissolved (TDS)
 Parameter.....: Solids, Total Dissolved (TDS)

Units.....: mg/L
 Batch(s)....: 199101

Analyst...: daw
 Test Code.: TDS

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|-----|------------|----------|-----------|-----------|------------|-------------|----------------|-----------|---|------------|------|
| DU | 354200-1 | | 473.00 | | | 452.00 | 4.5 | 10.0 | | 05/16/2008 | 1600 |
| LCS | 199101--21 | WCS49472 | 1749.00 | | 1800 | | 97.2 | 90.0-110. | | 05/16/2008 | 1600 |
| MB | 199101--21 | | 1.00 | | | | | | | 05/16/2008 | 1600 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN: Todd Wells

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

Test Method.....: EPA300.0 Rev2.1

Units.....: mg/L

Method Description.: Ion Chromatography Analysis - Short Hold Batch(s)....: 199085

Analyst...: sur

| CCB | Continuing Calibration Blank | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Chloride | 0 | | | | | | | | |
| Fluoride (F) | 0 | | | | | | | | |
| Bromide (Br) | 0 | | | | | | | | |
| Sulfate (SO4) | 0 | | | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | | |

| CCB | Continuing Calibration Blank | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Fluoride (F) | 0 | | | | | | | | |
| Chloride | 0.2136 | | | | | | | | |
| Bromide (Br) | 0 | | | | | | | | |
| Sulfate (SO4) | 0 | | | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | | |

| CCB | Continuing Calibration Blank | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Fluoride (F) | 0 | | | | | | | | |
| Chloride | 0 | | | | | | | | |
| Bromide (Br) | 0 | | | | | | | | |
| Sulfate (SO4) | 0 | | | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | | |

| CCB | Continuing Calibration Blank | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Fluoride (F) | 0 | | | | | | | | |
| Sulfate (SO4) | 0 | | | | | | | | |
| Bromide (Br) | 0 | | | | | | | | |
| Chloride | 0 | | | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN: Todd Wells

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

| | | | | | | |
|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/17/2008 | 0355 |
|-----|------------------------------|--|--|--|------------|------|

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

| | | | | | | | |
|-----|-------------------------------------|----------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | WCS49460 | | | | 05/16/2008 | 1612 |
|-----|-------------------------------------|----------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Fluoride (F) | 9.9246 | | 10.00 | | 99.2 | | 90.0-110.0 | |
| Chloride | 19.951 | | 20.00 | | 99.8 | | 90.0-110.0 | |
| Sulfate (SO4) | 19.586 | | 20.00 | | 97.9 | | 90.0-110.0 | |
| Bromide (Br) | 20.048 | | 20.00 | | 100.2 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO3-N) | 10.479 | | 10.0 | | 104.8 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO2-N) | 9.7887 | | 10.0 | | 97.9 | | 90.0-110.0 | |
| Nitrate + Nitrite as N | 20.268 | | | | | | | |

| | | | | | | | |
|-----|-------------------------------------|----------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | WCS49460 | | | | 05/16/2008 | 1848 |
|-----|-------------------------------------|----------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Fluoride (F) | 10.281 | | 10.00 | | 102.8 | | 90.0-110.0 | |
| Chloride | 19.881 | | 20.00 | | 99.4 | | 90.0-110.0 | |
| Sulfate (SO4) | 19.568 | | 20.00 | | 97.8 | | 90.0-110.0 | |
| Bromide (Br) | 19.967 | | 20.00 | | 99.8 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO3-N) | 10.426 | | 10.0 | | 104.3 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO2-N) | 9.7738 | | 10.0 | | 97.7 | | 90.0-110.0 | |

| | | | | | | | |
|-----|-------------------------------------|----------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | WCS49460 | | | | 05/16/2008 | 2156 |
|-----|-------------------------------------|----------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Sulfate (SO4) | 19.831 | | 20.00 | | 99.2 | | 90.0-110.0 | |
| Chloride | 19.931 | | 20.00 | | 99.7 | | 90.0-110.0 | |
| Fluoride (F) | 10.297 | | 10.00 | | 103.0 | | 90.0-110.0 | |
| Bromide (Br) | 19.973 | | 20.00 | | 99.9 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO3-N) | 10.457 | | 10.0 | | 104.6 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO2-N) | 9.7878 | | 10.0 | | 97.9 | | 90.0-110.0 | |

| | | | | | | | |
|-----|-------------------------------------|----------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | WCS49460 | | | | 05/17/2008 | 0048 |
|-----|-------------------------------------|----------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Fluoride (F) | 10.205 | | 10.00 | | 102.0 | | 90.0-110.0 | |
| Chloride | 19.880 | | 20.00 | | 99.4 | | 90.0-110.0 | |
| Bromide (Br) | 19.995 | | 20.00 | | 100.0 | | 90.0-110.0 | |
| Sulfate (SO4) | 19.498 | | 20.00 | | 97.5 | | 90.0-110.0 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN: Todd Wells

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------------------------------|------------|--------|-----------------|------------|------|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/17/2008 | 0048 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Nitrogen, Nitrate as N (NO3-N) | 10.448 | | 10.0 | | 104.5 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO2-N) | 9.7654 | | 10.0 | | 97.7 | | 90.0-110.0 | |

| CCV | Continuing Calibration Verification | WCS49460 | | | | 05/17/2008 | 0339 | |
|--------------------------------|-------------------------------------|-----------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Sulfate (SO4) | 19.930 | | 20.00 | | 99.7 | | 90.0-110.0 | |
| Bromide (Br) | 20.112 | | 20.00 | | 100.6 | | 90.0-110.0 | |
| Fluoride (F) | 10.472 | | 10.00 | | 104.7 | | 90.0-110.0 | |
| Chloride | 20.096 | | 20.00 | | 100.5 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO3-N) | 10.503 | | 10.0 | | 105.0 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO2-N) | 9.8444 | | 10.0 | | 98.4 | | 90.0-110.0 | |

| DU | Method Duplicate | | 354242-3 | 10 | | 05/16/2008 | 1509 | |
|---------------------------------------|------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Fluoride (F), Water | 0.1289 | | | 0.1160 | 0.0129 | | 0.3000 | |
| Sulfate (SO4), Water | 8.5416 | | | 8.6775 | 1.6 | | 20 | |
| Chloride, Water | 38.038 | | | 37.983 | 0.1 | | 20 | |
| Bromide (Br), Water | 0.1382 | | | 0.1747 | 0.0365 | | 0.6000 | |
| Nitrogen, Nitrate as N (NO3-N), Water | 0.2309 | | | 0.2222 | 0.0087 | | 0.2500 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 0 | | | 0 | 0 | | 0 | |
| Nitrate + Nitrite as N, Water | 0.231 | | | 0.222 | 0.009 | | 0.400 | |

| DU | Method Duplicate | | 354208-1 | 10 | | 05/16/2008 | 2022 | |
|---------------------------------------|------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Chloride, Water | 3.4258 | | | 3.3398 | 2.5 | | 20 | |
| Sulfate (SO4), Water | 1.3804 | | | 1.4406 | 0.0602 | | 0.5000 | |
| Bromide (Br), Water | 0 | | | 0 | 0 | | 1 | |
| Fluoride (F), Water | 0 | | | 0 | 0 | | 0 | |
| Nitrogen, Nitrate as N (NO3-N), Water | 0.1030 | | | 0.1048 | 0.0018 | | 0.2500 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 0 | | | 0 | 0 | | 0 | |
| Nitrate + Nitrite as N, Water | 0.103 | | | 0.105 | 0.002 | | 0.400 | |

| DU | Method Duplicate | | 354161-1 | 1000 | | 05/17/2008 | 0016 | |
|---------------------------------------|------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Sulfate (SO4), Water | 24.787 | | | 24.911 | 0.5 | | 20 | |
| Fluoride (F), Water | 0.1467 | | | 0.1425 | 0.0042 | | 0.3000 | |
| Bromide (Br), Water | 0 | | | 0 | 0 | | 1 | |
| Chloride, Water | 1.2257 | | | 1.1918 | 0.0339 | | 0.5000 | |
| Nitrogen, Nitrate as N (NO3-N), Water | 0 | | | 0 | 0 | | 0 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 0 | | | 0 | 0 | | 0 | |
| Nitrate + Nitrite as N, Water | 0.000 | | | 0.000 | 0.000 | | 0.400 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LFA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|---------------------------|------------|--------|-----------------|------------|------|
| ICB | Initial Calibration Blank | | | | 05/16/2008 | 1320 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|---|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Sulfate (SO ₄) | 0 | | | | | | | |
| Fluoride (F) | 0 | | | | | | | |
| Bromide (Br) | 0 | | | | | | | |
| Chloride | 0 | | | | | | | |
| Nitrogen, Nitrate as N (NO ₃ -N) | 0 | | | | | | | |
| Nitrogen, Nitrite as N (NO ₂ -N) | 0 | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | |

| ICV | Initial Calibration Verification | WCS49460 | | | | | 05/16/2008 | 1304 |
|---|----------------------------------|-----------|------------|-------------|--------------|---|------------|------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Bromide (Br) | 19.936 | | 20.00 | | 99.7 | | 90.0-110.0 | |
| Chloride | 19.925 | | 20.00 | | 99.6 | | 90.0-110.0 | |
| Fluoride (F) | 9.9173 | | 10.00 | | 99.2 | | 90.0-110.0 | |
| Sulfate (SO ₄) | 19.753 | | 20.00 | | 98.8 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO ₃ -N) | 10.385 | | 10.0 | | 103.8 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO ₂ -N) | 9.7802 | | 10.0 | | 97.8 | | 90.0-110.0 | |

| LCS | Laboratory Control Sample | WCS49460 | | | | | 05/16/2008 | 1351 |
|---|---------------------------|-----------|------------|-------------|--------------|---|------------|------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Fluoride (F) | 9.7907 | | 10.00 | | 97.9 | | 90.0-110.0 | |
| Sulfate (SO ₄) | 19.773 | | 20.00 | | 98.9 | | 90.0-110.0 | |
| Chloride | 20.051 | | 20.00 | | 100.3 | | 90.0-110.0 | |
| Bromide (Br) | 20.096 | | 20.00 | | 100.5 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO ₃ -N) | 10.559 | | 10.0 | | 105.6 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO ₂ -N) | 9.9210 | | 10.0 | | 99.2 | | 90.0-110.0 | |

| LCS | Laboratory Control Sample | WCS49460 | | | 10 | 05/16/2008 | 2243 | |
|---|---------------------------|-----------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Bromide (Br) | 20.005 | | 20.00 | | 100.0 | | 90.0-110.0 | |
| Chloride | 19.954 | | 20.00 | | 99.8 | | 90.0-110.0 | |
| Fluoride (F) | 10.324 | | 10.00 | | 103.2 | | 90.0-110.0 | |
| Sulfate (SO ₄) | 19.428 | | 20.00 | | 97.1 | | 90.0-110.0 | |
| Nitrogen, Nitrate as N (NO ₃ -N) | 10.453 | | 10.0 | | 104.5 | | 90.0-110.0 | |
| Nitrogen, Nitrite as N (NO ₂ -N) | 9.8044 | | 10.0 | | 98.0 | | 90.0-110.0 | |

| MB | Method Blank | | | | | 05/16/2008 | 1335 | |
|---|--------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Chloride | 0 | | | | | | | |
| Fluoride (F) | 0 | | | | | | | |
| Sulfate (SO ₄) | 0 | | | | | | | |
| Bromide (Br) | 0 | | | | | | | |
| Nitrogen, Nitrate as N (NO ₃ -N) | 0 | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LFA COUNTY NM

ATTN:

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

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|----|--------------|--|--|--|------------|------|
| MB | Method Blank | | | | 05/16/2008 | 1335 |
|----|--------------|--|--|--|------------|------|

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

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|----|--------------|--|--|--|------------|------|
| MB | Method Blank | | | | 05/16/2008 | 2227 |
|----|--------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|--------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Sulfate (SO4) | 0 | | | | | | | |
| Bromide (Br) | 0 | | | | | | | |
| Fluoride (F) | 0 | | | | | | | |
| Chloride | 0.2024 | | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | | |

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|----|--------------|----------|----------|----|------------|------|
| MS | Matrix Spike | WCS48935 | 354242-3 | 10 | 05/16/2008 | 1525 |
|----|--------------|----------|----------|----|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|---------------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Sulfate (SO4), Water | 17.985 | | 10.000000 | 8.6775 | 93.1 | | 90-110 | |
| Fluoride (F), Water | 1.5747 | | 2.000000 | 0.1160 | 72.9 | | 90-110 | A |
| Bromide (Br), Water | 9.8910 | | 10.000000 | 0.1747 | 97.2 | | 90-110 | |
| Chloride, Water | 45.337 | | 10.000000 | 37.983 | 73.5 | | 90-110 | A |
| Nitrogen, Nitrate as N (NO3-N), Water | 2.2017 | | 2.000000 | 0.2222 | 99.0 | | 90-110 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 1.9131 | | 2.000000 | 0 | 95.7 | | 90-110 | |
| Nitrate + Nitrite as N, Water | 4.115 | | 0.000000 | 0.222 | | | | |

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|----|--------------|----------|----------|----|------------|------|
| MS | Matrix Spike | WCS48935 | 354208-1 | 10 | 05/16/2008 | 2038 |
|----|--------------|----------|----------|----|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|---------------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Sulfate (SO4), Water | 11.022 | | 10.000000 | 1.4406 | 95.8 | | 90-110 | |
| Fluoride (F), Water | 1.6264 | | 2.000000 | 0 | 81.3 | | 90-110 | A |
| Chloride, Water | 12.973 | | 10.000000 | 3.3398 | 96.3 | | 90-110 | |
| Bromide (Br), Water | 9.7306 | | 10.000000 | 0 | 97.3 | | 90-110 | |
| Nitrogen, Nitrate as N (NO3-N), Water | 2.0828 | | 2.000000 | 0.1048 | 98.9 | | 90-110 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 1.6815 | | 2.000000 | 0 | 84.1 | | 90-110 | A |
| Nitrate + Nitrite as N, Water | 3.764 | | 0.000000 | 0.105 | | | | |

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|----|--------------|----------|----------|------|------------|------|
| MS | Matrix Spike | WCS48935 | 354161-1 | 1000 | 05/17/2008 | 0032 |
|----|--------------|----------|----------|------|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|---------------------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Fluoride (F), Water | 1.9584 | | 2.000000 | 0.1425 | 90.8 | | 90-110 | |
| Bromide (Br), Water | 9.8956 | | 10.000000 | 0 | 99.0 | | 90-110 | |
| Sulfate (SO4), Water | 33.637 | | 10.000000 | 24.911 | 87.3 | | 90-110 | A |
| Chloride, Water | 10.476 | | 10.000000 | 1.1918 | 92.8 | | 90-110 | |
| Nitrogen, Nitrate as N (NO3-N), Water | 2.0599 | | 2.000000 | 0 | 103.0 | | 90-110 | |
| Nitrogen, Nitrite as N (NO2-N), Water | 1.6771 | | 2.000000 | 0 | 83.9 | | 90-110 | A |
| Nitrate + Nitrite as N, Water | 3.737 | | 0.000000 | 0.000 | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

Test Method.....: SW-846 6010B Units.....: mg/L Analyst....: srp
 Method Description.: Metals Analysis (ICAP Trace) Batch(s)....: 199658 199673 199712

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 0831 |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|----------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits F |
| Calcium (Ca) | -0.00090 | | | | | | |
| Magnesium (Mg) | -0.00159 | | | | | | |
| Potassium (K) | 0.03309 | | | | | | |
| Sodium (Na) | 0.00737 | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1048 |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|----------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits F |
| Calcium (Ca) | -0.00476 | | | | | | |
| Magnesium (Mg) | -0.00684 | | | | | | |
| Potassium (K) | 0.06081 | | | | | | |
| Sodium (Na) | 0.00561 | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1137 |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|----------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits F |
| Calcium (Ca) | -0.00427 | | | | | | |
| Magnesium (Mg) | -0.00574 | | | | | | |
| Potassium (K) | 0.07322 | | | | | | |
| Sodium (Na) | 0.04501 | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1220 |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|----------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits F |
| Calcium (Ca) | -0.01035 | | | | | | |
| Magnesium (Mg) | -0.02173 | | | | | | |
| Potassium (K) | -0.02607 | | | | | | |
| Sodium (Na) | 0.02432 | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1236 |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|----------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits F |
| Calcium (Ca) | -0.01078 | | | | | | |
| Magnesium (Mg) | -0.01940 | | | | | | |
| Potassium (K) | -0.08439 | | | | | | |
| Sodium (Na) | 0.01097 | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

| | | | | | | |
|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1326 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01170 | | | | | | | |
| Magnesium (Mg) | -0.02066 | | | | | | | |
| Potassium (K) | -0.08484 | | | | | | | |
| Sodium (Na) | 0.00447 | | | | | | | |

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|-----|-------------------------------------|------------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 0827 |
|-----|-------------------------------------|------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.55539 | | 12.50 | | 100.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.89795 | | 5.000 | | 98.0 | | 90.0-110.0 | |
| Potassium (K) | 12.06550 | | 12.50 | | 96.5 | | 90.0-110.0 | |
| Sodium (Na) | 12.58963 | | 12.50 | | 100.7 | | 90.0-110.0 | |

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|-----|-------------------------------------|------------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1044 |
|-----|-------------------------------------|------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.51331 | | 12.50 | | 100.1 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.81142 | | 5.000 | | 96.2 | | 90.0-110.0 | |
| Potassium (K) | 12.30102 | | 12.50 | | 98.4 | | 90.0-110.0 | |
| Sodium (Na) | 12.92193 | | 12.50 | | 103.4 | | 90.0-110.0 | |

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|-----|-------------------------------------|------------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1133 |
|-----|-------------------------------------|------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.67684 | | 12.50 | | 101.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.78373 | | 5.000 | | 95.7 | | 90.0-110.0 | |
| Potassium (K) | 12.40094 | | 12.50 | | 99.2 | | 90.0-110.0 | |
| Sodium (Na) | 12.70210 | | 12.50 | | 101.6 | | 90.0-110.0 | |

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|-----|-------------------------------------|------------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1216 |
|-----|-------------------------------------|------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.46840 | | 12.50 | | 99.7 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.79450 | | 5.000 | | 95.9 | | 90.0-110.0 | |
| Potassium (K) | 12.37214 | | 12.50 | | 99.0 | | 90.0-110.0 | |
| Sodium (Na) | 12.79256 | | 12.50 | | 102.3 | | 90.0-110.0 | |

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|-----|-------------------------------------|------------|--|--|--|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1232 |
|-----|-------------------------------------|------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.42762 | | 12.50 | | 99.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.77421 | | 5.000 | | 95.5 | | 90.0-110.0 | |
| Potassium (K) | 12.36356 | | 12.50 | | 98.9 | | 90.0-110.0 | |
| Sodium (Na) | 12.96962 | | 12.50 | | 103.8 | | 90.0-110.0 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------------------------------|------------|--------|-----------------|------------|------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1322 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 12.41986 | | 12.50 | | 99.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.93421 | | 5.000 | | 98.7 | | 90.0-110.0 | |
| Potassium (K) | 12.46522 | | 12.50 | | 99.7 | | 90.0-110.0 | |
| Sodium (Na) | 13.30707 | | 12.50 | | 106.5 | | 90.0-110.0 | |

| CH1 | Calibration check standard 1 | MS050708T1 | | | | 05/29/2008 | 0815 | |
|----------------------------|------------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 0.09533 | | 0.1000 | | 95.3 | | 80.0-120.0 | |
| Magnesium (Mg) | 0.09164 | | 0.1000 | | 91.6 | | 80.0-120.0 | |
| Potassium (K) | 0.61666 | | 0.60000 | | 102.8 | | 80.0-120.0 | |
| Sodium (Na) | 0.65671 | | 0.60000 | | 109.5 | | 80.0-120.0 | |

| CH3 | Standard check for ICAP | MS041408T3 | | | | 05/29/2008 | 0803 | |
|----------------------------|-------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 20.20541 | | 20.00 | | 101.0 | | 95.0-105.0 | |
| Magnesium (Mg) | 19.72490 | | 20.00 | | 98.6 | | 95.0-105.0 | |
| Potassium (K) | 19.79903 | | 20.00 | | 99.0 | | 95.0-105.0 | |
| Sodium (Na) | 19.68125 | | 20.00 | | 98.4 | | 95.0-105.0 | |

| EB | Extraction Blank | | 199632 | | | 05/29/2008 | 1013 | |
|----------------------------|------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca), Diss. | -0.00231 | | | | | | | |
| Magnesium (Mg), Diss. | 0.00276 | | | | | | | |
| Potassium (K), Diss. | 0.10852 | | | | | | | |
| Sodium (Na), Diss. | 0.01005 | | | | | | | |

| ICB | Initial Calibration Blank | | | | | 05/29/2008 | 0811 | |
|----------------------------|---------------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 0.00103 | | | | | | | |
| Magnesium (Mg) | -0.00097 | | | | | | | |
| Potassium (K) | -0.02695 | | | | | | | |
| Sodium (Na) | 0.00452 | | | | | | | |

| ICV | Initial Calibration Verification | MS052708CC | | | | 05/29/2008 | 0807 | |
|----------------------------|----------------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 12.59388 | | 12.50 | | 100.8 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.90919 | | 5.000 | | 98.2 | | 90.0-110.0 | |
| Potassium (K) | 12.00958 | | 12.50 | | 96.1 | | 90.0-110.0 | |
| Sodium (Na) | 12.38603 | | 12.50 | | 99.1 | | 90.0-110.0 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|----------------|-----------------------------|------------|-----------|-----------------|-------------|--------------|
| ISA | Interference Check Sample A | MS040808IA | | | 05/29/2008 | 0819 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca) | 494.77603 | | 500.0 | | 99.0 | 80-120 |
| Magnesium (Mg) | 546.43884 | | 500.0 | | 109.3 | 80-120 |
| Potassium (K) | 0.20911 | | 0.0 | | | |
| Sodium (Na) | 0.04385 | | 0.0 | | | |

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|----------------|-----------------------------|------------|-----------|------------|-------------|--------------|
| ISB | Interference Check Sample B | MS040808IB | | | 05/29/2008 | 0823 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca) | 502.67565 | | 510.0 | | 98.6 | 80.0-120.0 |
| Magnesium (Mg) | 562.39306 | | 510.0 | | 110.3 | 80.0-120.0 |

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|-----------------------|----------------------------|-----------|-----------|------------|-------------|--------------|
| LCS | Laboratory Control Sample | MSPIKEW | 199632 | | 05/29/2008 | 1009 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Water | 10.24334 | | 10.00 | | 102.4 | 80.0-120.0 |
| Magnesium (Mg), Water | 9.79534 | | 10.00 | | 98.0 | 80.0-120.0 |
| Potassium (K), Water | 9.99814 | | 10.00 | | 100.0 | 80.0-120.0 |
| Sodium (Na), Water | 10.53637 | | 10.00 | | 105.4 | 80.0-120.0 |

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|-----------------------|----------------------------|-----------|-----------|------------|-------------|--------------|
| MB | Method Blank | | 199632 | | 05/29/2008 | 1005 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Water | -0.01249 | | | | | |
| Magnesium (Mg), Water | -0.00068 | | | | | |
| Potassium (K), Water | 0.09661 | | | | | |
| Sodium (Na), Water | -0.00537 | | | | | |

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|-----------------------|----------------------------|-----------|-----------|------------|-------------|--------------|
| MD | Method Duplicate | | 354242-1 | | 05/29/2008 | 1021 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Diss. | 51.68273 | 51.67058 | | 51.67058 | 0.0 | 20 |
| Magnesium (Mg), Diss. | 16.77605 | 16.75135 | | 16.75135 | 0.1 | 20 |

| | | | | | | |
|-----------------------|----------------------------|-----------|-----------|------------|-------------|--------------|
| MD | Method Duplicate | | 354242-2 | | 05/29/2008 | 1036 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Diss. | 55.23128 | 55.61986 | | 55.61986 | 0.7 | 20 |
| Magnesium (Mg), Diss. | 16.81045 | 16.96228 | | 16.96228 | 0.9 | 20 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----------------------|----------------------------|------------|-----------|-----------------|-------------|-------------------------|
| MD | Method Duplicate | | 354242-1 | 10 | 05/29/2008 | 1243 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 5.48350 | 5.48244 | | 5.48244 | 0.00106 - 2.00000 |
| MD | Method Duplicate | | 354242-2 | 10 | 05/29/2008 | 1259 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 5.39143 | 5.40508 | | 5.40508 | 0.01365 - 2.00000 |
| MS | Matrix Spike | MSPIKEW | 354242-1 | | | 05/29/2008 1024 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 57.52444 | | 10.00 | 51.67058 | 58.5 75-125 |
| Magnesium (Mg), Diss. | | 24.98847 | | 10.00 | 16.75135 | 82.4 75-125 |
| Potassium (K), Diss. | | 14.14281 | | 10.00 | 4.10070 | 100.4 75-125 |
| MS | Matrix Spike | MSPIKEW | 354242-2 | | | 05/29/2008 1040 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 66.71949 | | 10.00 | 55.61986 | 111.0 75-125 |
| Magnesium (Mg), Diss. | | 27.43823 | | 10.00 | 16.96228 | 104.8 75-125 |
| Potassium (K), Diss. | | 15.34918 | | 10.00 | 3.99458 | 113.5 75-125 |
| MS | Matrix Spike | MSPIKEW | 354242-1 | 10 | | 05/29/2008 1247 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 6.22633 | | 1.000000 | 5.48244 | 74.4 75-125 |
| MS | Matrix Spike | MSPIKEW | 354242-2 | 10 | | 05/29/2008 1307 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 6.68598 | | 10.00 | 5.40508 | 12.8 75-125 a |
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-1 | | | 05/29/2008 1028 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 62.38913 | 57.52444 | 10.00 | 51.67058 | 107.2 75-125 |
| | | | | | 58.8 | 20 C |
| Magnesium (Mg), Diss. | | 27.41726 | 24.98847 | 10.00 | 16.75135 | 106.7 75-125 |
| | | | | | 25.7 | 20 C |
| Potassium (K), Diss. | | 15.22028 | 14.14281 | 10.00 | 4.10070 | 111.2 75-125 |
| | | | | | 10.2 | 20 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----------------------|----------------------------|------------|-----------|-----------------|---------------|-----------------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-2 | | 05/29/2008 | 1052 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Diss. | 65.91276 | 66.71949 | 10.00 | 55.61986 | 102.9 7.6 | 75-125 20 |
| Magnesium (Mg), Diss. | 26.93963 | 27.43823 | 10.00 | 16.96228 | 99.8 4.9 | 75-125 20 |
| Potassium (K), Diss. | 15.07207 | 15.34918 | 10.00 | 3.99458 | 110.8 2.4 | 75-125 20 |
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-1 | 10 | 05/29/2008 | 1251 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Sodium (Na), Diss. | 6.53246 | 6.22633 | 1.000000 | 5.48244 | 105.0 34.1 | 75-125 20 |
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-2 | 10 | 05/29/2008 | 1311 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Sodium (Na), Diss. | 6.67477 | 6.68598 | 10.00 | 5.40508 | 12.7 0.8 | 75-125 20 |
| PDS | Post Digestion Spike | MSPIKE3 | 354242-1 | | 05/29/2008 | 1224 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Diss. | 60.94198 | | 10.00 | 51.67058 | 92.7 | 75-125 |
| Magnesium (Mg), Diss. | 26.81998 | | 10.00 | 16.75135 | 100.7 | 75-125 |
| Potassium (K), Diss. | 15.15862 | | 10.00 | 4.10070 | 110.6 | 75-125 |
| S0 | Calibration Blank | | | | 05/29/2008 | 0755 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca) | 0.00267 | | | | | |
| Magnesium (Mg) | 0.00934 | | | | | |
| Potassium (K) | 0.23878 | | | | | |
| Sodium (Na) | 0.02152 | | | | | |
| SD | Serial Dilution | | | 354242-1 | 5 | 05/29/2008 1228 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result |
| Calcium (Ca), Diss. | 10.11188 | | | 51.67058 | 2.2 | 10.0 |
| Magnesium (Mg), Diss. | 3.28491 | | | 16.75135 | 2.0 | 10.0 |
| Potassium (K), Diss. | 0.72551 | | | 4.10070 | 11.5 | 10.0 |
| Sodium (Na), Diss. | 10.36567 | | | 41.82718 | 23.9 | 10.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
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|-----|------------------------|--|--|--|------------|------|
| STD | Spiked Blank Duplicate | | | | 05/29/2008 | 0759 |
|-----|------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | 0.26482 | | | | | | | |
| Magnesium (Mg) | 0.42311 | | | | | | | |
| Potassium (K) | 2.14701 | | | | | | | |
| Sodium (Na) | 5.66228 | | | | | | | |

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| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 0831 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00090 | | | | | | | |
| Magnesium (Mg) | -0.00159 | | | | | | | |
| Potassium (K) | 0.03309 | | | | | | | |
| Sodium (Na) | 0.00737 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1048 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00476 | | | | | | | |
| Magnesium (Mg) | -0.00684 | | | | | | | |
| Potassium (K) | 0.06081 | | | | | | | |
| Sodium (Na) | 0.00561 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1137 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00427 | | | | | | | |
| Magnesium (Mg) | -0.00574 | | | | | | | |
| Potassium (K) | 0.07322 | | | | | | | |
| Sodium (Na) | 0.04501 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1220 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01035 | | | | | | | |
| Magnesium (Mg) | -0.02173 | | | | | | | |
| Potassium (K) | -0.02607 | | | | | | | |
| Sodium (Na) | 0.02432 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1236 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01078 | | | | | | | |
| Magnesium (Mg) | -0.01940 | | | | | | | |
| Potassium (K) | -0.08439 | | | | | | | |
| Sodium (Na) | 0.01097 | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|------------------------------|------------|--------|-----------------|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1326 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01170 | | | | | | | |
| Magnesium (Mg) | -0.02066 | | | | | | | |
| Potassium (K) | -0.08484 | | | | | | | |
| Sodium (Na) | 0.00447 | | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1410 | |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | -0.00644 | | | | | | | |
| Magnesium (Mg) | -0.00903 | | | | | | | |
| Potassium (K) | 0.01116 | | | | | | | |
| Sodium (Na) | 0.00331 | | | | | | | |

| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1426 | |
|----------------------------|------------------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | -0.00831 | | | | | | | |
| Magnesium (Mg) | -0.01519 | | | | | | | |
| Potassium (K) | -0.03785 | | | | | | | |
| Sodium (Na) | 0.00071 | | | | | | | |

| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 0827 | |
|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 12.55539 | | 12.50 | | 100.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.89795 | | 5.000 | | 98.0 | | 90.0-110.0 | |
| Potassium (K) | 12.06550 | | 12.50 | | 96.5 | | 90.0-110.0 | |
| Sodium (Na) | 12.58963 | | 12.50 | | 100.7 | | 90.0-110.0 | |

| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1044 | |
|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 12.51331 | | 12.50 | | 100.1 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.81142 | | 5.000 | | 96.2 | | 90.0-110.0 | |
| Potassium (K) | 12.30102 | | 12.50 | | 98.4 | | 90.0-110.0 | |
| Sodium (Na) | 12.92193 | | 12.50 | | 103.4 | | 90.0-110.0 | |

| CCV | Continuing Calibration Verification | MS052708CC | | | | 05/29/2008 | 1133 | |
|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|------------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 12.67684 | | 12.50 | | 101.4 | | 90.0-110.0 | |
| Magnesium (Mg) | 4.78373 | | 5.000 | | 95.7 | | 90.0-110.0 | |
| Potassium (K) | 12.40094 | | 12.50 | | 99.2 | | 90.0-110.0 | |
| Sodium (Na) | 12.70210 | | 12.50 | | 101.6 | | 90.0-110.0 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|----------------------------|-------------------------------------|------------|------------|-----------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1216 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.46840 | | 12.50 | | 99.7 | 90.0-110.0 |
| Magnesium (Mg) | 4.79450 | | 5.000 | | 95.9 | 90.0-110.0 |
| Potassium (K) | 12.37214 | | 12.50 | | 99.0 | 90.0-110.0 |
| Sodium (Na) | 12.79256 | | 12.50 | | 102.3 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1232 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.42762 | | 12.50 | | 99.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.77421 | | 5.000 | | 95.5 | 90.0-110.0 |
| Potassium (K) | 12.36356 | | 12.50 | | 98.9 | 90.0-110.0 |
| Sodium (Na) | 12.96962 | | 12.50 | | 103.8 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1322 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.41986 | | 12.50 | | 99.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.93421 | | 5.000 | | 98.7 | 90.0-110.0 |
| Potassium (K) | 12.46522 | | 12.50 | | 99.7 | 90.0-110.0 |
| Sodium (Na) | 13.30707 | | 12.50 | | 106.5 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1406 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.62805 | | 12.50 | | 101.0 | 90.0-110.0 |
| Magnesium (Mg) | 4.91179 | | 5.000 | | 98.2 | 90.0-110.0 |
| Potassium (K) | 12.29995 | | 12.50 | | 98.4 | 90.0-110.0 |
| Sodium (Na) | 12.97927 | | 12.50 | | 103.8 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1422 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.69861 | | 12.50 | | 101.6 | 90.0-110.0 |
| Magnesium (Mg) | 4.93050 | | 5.000 | | 98.6 | 90.0-110.0 |
| Potassium (K) | 12.24966 | | 12.50 | | 98.0 | 90.0-110.0 |
| Sodium (Na) | 13.02047 | | 12.50 | | 104.2 | 90.0-110.0 |

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|----------------------------|------------------------------|------------|------------|-------------|--------------|------------|
| CH1 | Calibration check standard 1 | MS050708T1 | | | 05/29/2008 | 0815 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 0.09533 | | 0.1000 | | 95.3 | 80.0-120.0 |
| Magnesium (Mg) | 0.09164 | | 0.1000 | | 91.6 | 80.0-120.0 |
| Potassium (K) | 0.61666 | | 0.60000 | | 102.8 | 80.0-120.0 |
| Sodium (Na) | 0.65671 | | 0.60000 | | 109.5 | 80.0-120.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----------------------|----------------------------------|------------|-----------|-----------------|-------------|-------------------------|
| CH3 | Standard check for ICAP | MS041408T3 | | | 05/29/2008 | 0803 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca) | 20.20541 | | 20.00 | | 101.0 | 95.0-105.0 |
| Magnesium (Mg) | 19.72490 | | 20.00 | | 98.6 | 95.0-105.0 |
| Potassium (K) | 19.79903 | | 20.00 | | 99.0 | 95.0-105.0 |
| Sodium (Na) | 19.68125 | | 20.00 | | 98.4 | 95.0-105.0 |
| EB | Extraction Blank | | 199632 | | 05/29/2008 | 1013 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | -0.00231 | | | | | |
| Magnesium (Mg), Diss. | 0.00276 | | | | | |
| Potassium (K), Diss. | 0.10852 | | | | | |
| Sodium (Na), Diss. | 0.01005 | | | | | |
| ICB | Initial Calibration Blank | | | | 05/29/2008 | 0811 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca) | 0.00103 | | | | | |
| Magnesium (Mg) | -0.00097 | | | | | |
| Potassium (K) | -0.02695 | | | | | |
| Sodium (Na) | 0.00452 | | | | | |
| ICV | Initial Calibration Verification | MS052708CC | | | 05/29/2008 | 0807 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca) | 12.59388 | | 12.50 | | 100.8 | 90.0-110.0 |
| Magnesium (Mg) | 4.90919 | | 5.000 | | 98.2 | 90.0-110.0 |
| Potassium (K) | 12.00958 | | 12.50 | | 96.1 | 90.0-110.0 |
| Sodium (Na) | 12.38603 | | 12.50 | | 99.1 | 90.0-110.0 |
| ISA | Interference Check Sample A | MS040808IA | | | 05/29/2008 | 0819 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca) | 494.77603 | | 500.0 | | 99.0 | 80-120 |
| Magnesium (Mg) | 546.43884 | | 500.0 | | 109.3 | 80-120 |
| Potassium (K) | 0.20911 | | 0.0 | | | |
| Sodium (Na) | 0.04385 | | 0.0 | | | |
| ISB | Interference Check Sample B | MS040808IB | | | 05/29/2008 | 0823 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca) | 502.67565 | | 510.0 | | 98.6 | 80.0-120.0 |
| Magnesium (Mg) | 562.39306 | | 510.0 | | 110.3 | 80.0-120.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

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|----------------------------|---------------------------|-----------|------------|-------------|--------------|------------|
| LCS | Laboratory Control Sample | MSPIKEW | 199632 | | 05/29/2008 | 1009 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Water | 10.24334 | | 10.00 | | 102.4 | 80.0-120.0 |
| Magnesium (Mg), Water | 9.79534 | | 10.00 | | 98.0 | 80.0-120.0 |
| Potassium (K), Water | 9.99814 | | 10.00 | | 100.0 | 80.0-120.0 |
| Sodium (Na), Water | 10.53637 | | 10.00 | | 105.4 | 80.0-120.0 |

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| MB | Method Blank | | 199632 | | 05/29/2008 | 1005 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Water | -0.01249 | | | | | |
| Magnesium (Mg), Water | -0.00068 | | | | | |
| Potassium (K), Water | 0.09661 | | | | | |
| Sodium (Na), Water | -0.00537 | | | | | |

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|----------------------------|------------------|-----------|------------|-------------|--------------|------------|
| MD | Method Duplicate | | 354242-1 | | 05/29/2008 | 1021 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | 51.68273 | 51.67058 | | 51.67058 | 0.0 | 20 |
| Magnesium (Mg), Diss. | 16.77605 | 16.75135 | | 16.75135 | 0.1 | 20 |
| Potassium (K), Diss. | 4.12157 | 4.10070 | | 4.10070 | 0.02087 | 2.00000 |

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| MD | Method Duplicate | | 354242-2 | | 05/29/2008 | 1036 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | 55.23128 | 55.61986 | | 55.61986 | 0.7 | 20 |
| Magnesium (Mg), Diss. | 16.81045 | 16.96228 | | 16.96228 | 0.9 | 20 |
| Potassium (K), Diss. | 3.98999 | 3.99458 | | 3.99458 | 0.00459 | 2.00000 |

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|----------------------------|-----------|-----------|------------|-------------|--------------|------------|
| MDX | | | 354242-1 | | 05/29/2008 | 1243 |
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| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | 5.15750 | | | | | |
| Magnesium (Mg), Diss. | 1.66375 | | | | | |
| Potassium (K), Diss. | 0.31414 | | | | | |
| Sodium (Na), Diss. | 5.48350 | | | | | |

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|----------------------------|-----------|-----------|------------|-------------|--------------|------------|
| MDX | | | 354242-2 | | 05/29/2008 | 1259 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | 5.63736 | | | | | |
| Magnesium (Mg), Diss. | 1.63013 | | | | | |
| Potassium (K), Diss. | 0.31859 | | | | | |
| Sodium (Na), Diss. | 5.39143 | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

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|----------------------------|--------------|-----------|------------|-------------|--------------|--------|
| MS | Matrix Spike | MSPIKEW | 354242-1 | | 05/29/2008 | 1024 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * |
| Calcium (Ca), Diss. | 57.52444 | | 10.00 | 51.67058 | 58.5 | 75-125 |
| Magnesium (Mg), Diss. | 24.98847 | | 10.00 | 16.75135 | 82.4 | 75-125 |
| Potassium (K), Diss. | 14.14281 | | 10.00 | 4.10070 | 100.4 | 75-125 |

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|----------------------------|--------------|-----------|------------|-------------|--------------|--------|
| MS | Matrix Spike | MSPIKEW | 354242-2 | | 05/29/2008 | 1040 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * |
| Calcium (Ca), Diss. | 66.71949 | | 10.00 | 55.61986 | 111.0 | 75-125 |
| Magnesium (Mg), Diss. | 27.43823 | | 10.00 | 16.96228 | 104.8 | 75-125 |
| Potassium (K), Diss. | 15.34918 | | 10.00 | 3.99458 | 113.5 | 75-125 |

| | | | | | | |
|----------------------------|------------------------|-----------|------------|-------------|--------------|--------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-1 | | 05/29/2008 | 1028 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * |
| Calcium (Ca), Diss. | 62.38913 | 57.52444 | 10.00 | 51.67058 | 107.2 | 75-125 |
| Magnesium (Mg), Diss. | 27.41726 | 24.98847 | 10.00 | 16.75135 | 106.7 | 75-125 |
| Potassium (K), Diss. | 15.22028 | 14.14281 | 10.00 | 4.10070 | 111.2 | 75-125 |
| | | | | | 10.2 | 20 |

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|----------------------------|------------------------|-----------|------------|-------------|--------------|--------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-2 | | 05/29/2008 | 1052 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * |
| Calcium (Ca), Diss. | 65.91276 | 66.71949 | 10.00 | 55.61986 | 102.9 | 75-125 |
| Magnesium (Mg), Diss. | 26.93963 | 27.43823 | 10.00 | 16.96228 | 99.8 | 75-125 |
| Potassium (K), Diss. | 15.07207 | 15.34918 | 10.00 | 3.99458 | 110.8 | 75-125 |
| | | | | | 2.4 | 20 |

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|----------------------------|-----------|-----------|------------|-------------|--------------|------|
| MSX | | | 354242-1 | | 05/29/2008 | 1247 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * |
| Calcium (Ca), Diss. | 5.86277 | | | | | |
| Magnesium (Mg), Diss. | 2.53092 | | | | | |
| Potassium (K), Diss. | 1.27737 | | | | | |
| Sodium (Na), Diss. | 6.22633 | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|----------|-----------------|------------|------|
| MSX | | | 354242-2 | | 05/29/2008 | 1307 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca), Diss. | 6.72246 | | | | | | | |
| Magnesium (Mg), Diss. | 2.69581 | | | | | | | |
| Potassium (K), Diss. | 1.36126 | | | | | | | |
| Sodium (Na), Diss. | 6.68598 | | | | | | | |

| PDS | Post Digestion Spike | MSPIKE3 | 354242-1 | | | 05/29/2008 | 1224 | |
|----------------------------|----------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca), Diss. | 60.94198 | | 10.00 | 51.67058 | 92.7 | | 75-125 | |
| Magnesium (Mg), Diss. | 26.81998 | | 10.00 | 16.75135 | 100.7 | | 75-125 | |
| Potassium (K), Diss. | 15.15862 | | 10.00 | 4.10070 | 110.6 | | 75-125 | |

| PDS | Post Digestion Spike | MSPIKE3 | 354242-1 | 10 | | 05/29/2008 | 1414 | |
|----------------------------|----------------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Sodium (Na), Diss. | 15.55409 | | 10.00 | 5.48244 | 100.7 | | 75-125 | |

| S0 | Calibration Blank | | | | | | 05/29/2008 | 0755 |
|----------------------------|-------------------|-----------|------------|-------------|--------------|---|------------|------|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca) | 0.00267 | | | | | | | |
| Magnesium (Mg) | 0.00934 | | | | | | | |
| Potassium (K) | 0.23878 | | | | | | | |
| Sodium (Na) | 0.02152 | | | | | | | |

| SD | Serial Dilution | | 354242-1 | 5 | | 05/29/2008 | 1228 | |
|----------------------------|-----------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Calcium (Ca), Diss. | 10.11188 | | | 51.67058 | 2.2 | | 10.0 | |
| Magnesium (Mg), Diss. | 3.28491 | | | 16.75135 | 2.0 | | 10.0 | |
| Potassium (K), Diss. | 0.72551 | | | 4.10070 | 11.5 | | 10.0 | e |
| Sodium (Na), Diss. | 10.36567 | | | 41.82718 | 23.9 | | 10.0 | e |

| SD | Serial Dilution | | 354242-1 | 50 | | 05/29/2008 | 1418 | |
|----------------------------|-----------------|-----------|------------|-------------|--------------|------------|--------|---|
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
| Sodium (Na), Diss. | 1.14193 | | | 5.48244 | 4.1 | | 10.0 | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
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|-----|------------------------|--|--|--|------------|------|
| STD | Spiked Blank Duplicate | | | | 05/29/2008 | 0759 |
|-----|------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | 0.26482 | | | | | | | |
| Magnesium (Mg) | 0.42311 | | | | | | | |
| Potassium (K) | 2.14701 | | | | | | | |
| Sodium (Na) | 5.66228 | | | | | | | |

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| X10 | | | 354242-2 | | | 05/29/2008 | 1255 |
|-----|--|--|----------|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca), Diss. | 5.70191 | | | | | | | |
| Magnesium (Mg), Diss. | 1.65859 | | | | | | | |
| Potassium (K), Diss. | 0.33032 | | | | | | | |
| Sodium (Na), Diss. | 5.40508 | | | | | | | |

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| X10 | | | 354242-3 | | | 05/29/2008 | 1314 |
|-----|--|--|----------|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca), Diss. | 14.81003 | | | | | | | |
| Magnesium (Mg), Diss. | 3.51309 | | | | | | | |
| Potassium (K), Diss. | 0.43287 | | | | | | | |
| Sodium (Na), Diss. | 7.72343 | | | | | | | |

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|-----|------------------------------|--|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 0831 |
|-----|------------------------------|--|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00090 | | | | | | | |
| Magnesium (Mg) | -0.00159 | | | | | | | |
| Potassium (K) | 0.03309 | | | | | | | |
| Sodium (Na) | 0.00737 | | | | | | | |

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| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1048 |
|-----|------------------------------|--|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00476 | | | | | | | |
| Magnesium (Mg) | -0.00684 | | | | | | | |
| Potassium (K) | 0.06081 | | | | | | | |
| Sodium (Na) | 0.00561 | | | | | | | |

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|-----|------------------------------|--|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | | 05/29/2008 | 1137 |
|-----|------------------------------|--|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00427 | | | | | | | |
| Magnesium (Mg) | -0.00574 | | | | | | | |
| Potassium (K) | 0.07322 | | | | | | | |
| Sodium (Na) | 0.04501 | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
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| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1220 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01035 | | | | | | | |
| Magnesium (Mg) | -0.02173 | | | | | | | |
| Potassium (K) | -0.02607 | | | | | | | |
| Sodium (Na) | 0.02432 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1236 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01078 | | | | | | | |
| Magnesium (Mg) | -0.01940 | | | | | | | |
| Potassium (K) | -0.08439 | | | | | | | |
| Sodium (Na) | 0.01097 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1326 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.01170 | | | | | | | |
| Magnesium (Mg) | -0.02066 | | | | | | | |
| Potassium (K) | -0.08484 | | | | | | | |
| Sodium (Na) | 0.00447 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1410 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00644 | | | | | | | |
| Magnesium (Mg) | -0.00903 | | | | | | | |
| Potassium (K) | 0.01116 | | | | | | | |
| Sodium (Na) | 0.00331 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1426 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00831 | | | | | | | |
| Magnesium (Mg) | -0.01519 | | | | | | | |
| Potassium (K) | -0.03785 | | | | | | | |
| Sodium (Na) | 0.00071 | | | | | | | |

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|-----|------------------------------|--|--|--|------------|------|
| CCB | Continuing Calibration Blank | | | | 05/29/2008 | 1500 |
|-----|------------------------------|--|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | -0.00386 | | | | | | | |
| Magnesium (Mg) | -0.02496 | | | | | | | |
| Potassium (K) | -0.11126 | | | | | | | |
| Sodium (Na) | -0.00023 | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|----------------------------|-------------------------------------|------------|------------|-----------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 0827 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.55539 | | 12.50 | | 100.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.89795 | | 5.000 | | 98.0 | 90.0-110.0 |
| Potassium (K) | 12.06550 | | 12.50 | | 96.5 | 90.0-110.0 |
| Sodium (Na) | 12.58963 | | 12.50 | | 100.7 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1044 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.51331 | | 12.50 | | 100.1 | 90.0-110.0 |
| Magnesium (Mg) | 4.81142 | | 5.000 | | 96.2 | 90.0-110.0 |
| Potassium (K) | 12.30102 | | 12.50 | | 98.4 | 90.0-110.0 |
| Sodium (Na) | 12.92193 | | 12.50 | | 103.4 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1133 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.67684 | | 12.50 | | 101.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.78373 | | 5.000 | | 95.7 | 90.0-110.0 |
| Potassium (K) | 12.40094 | | 12.50 | | 99.2 | 90.0-110.0 |
| Sodium (Na) | 12.70210 | | 12.50 | | 101.6 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1216 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.46840 | | 12.50 | | 99.7 | 90.0-110.0 |
| Magnesium (Mg) | 4.79450 | | 5.000 | | 95.9 | 90.0-110.0 |
| Potassium (K) | 12.37214 | | 12.50 | | 99.0 | 90.0-110.0 |
| Sodium (Na) | 12.79256 | | 12.50 | | 102.3 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1232 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.42762 | | 12.50 | | 99.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.77421 | | 5.000 | | 95.5 | 90.0-110.0 |
| Potassium (K) | 12.36356 | | 12.50 | | 98.9 | 90.0-110.0 |
| Sodium (Na) | 12.96962 | | 12.50 | | 103.8 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1322 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.41986 | | 12.50 | | 99.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.93421 | | 5.000 | | 98.7 | 90.0-110.0 |
| Potassium (K) | 12.46522 | | 12.50 | | 99.7 | 90.0-110.0 |
| Sodium (Na) | 13.30707 | | 12.50 | | 106.5 | 90.0-110.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|----------------------------|-------------------------------------|------------|------------|-----------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1406 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.62805 | | 12.50 | | 101.0 | 90.0-110.0 |
| Magnesium (Mg) | 4.91179 | | 5.000 | | 98.2 | 90.0-110.0 |
| Potassium (K) | 12.29995 | | 12.50 | | 98.4 | 90.0-110.0 |
| Sodium (Na) | 12.97927 | | 12.50 | | 103.8 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1422 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.69861 | | 12.50 | | 101.6 | 90.0-110.0 |
| Magnesium (Mg) | 4.93050 | | 5.000 | | 98.6 | 90.0-110.0 |
| Potassium (K) | 12.24966 | | 12.50 | | 98.0 | 90.0-110.0 |
| Sodium (Na) | 13.02047 | | 12.50 | | 104.2 | 90.0-110.0 |

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|----------------------------|-------------------------------------|------------|------------|-------------|--------------|------------|
| CCV | Continuing Calibration Verification | MS052708CC | | | 05/29/2008 | 1456 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.17876 | | 12.50 | | 97.4 | 90.0-110.0 |
| Magnesium (Mg) | 4.87154 | | 5.000 | | 97.4 | 90.0-110.0 |
| Potassium (K) | 12.32654 | | 12.50 | | 98.6 | 90.0-110.0 |
| Sodium (Na) | 13.54699 | | 12.50 | | 108.4 | 90.0-110.0 |

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|----------------------------|------------------------------|------------|------------|-------------|--------------|------------|
| CH1 | Calibration check standard 1 | MS050708T1 | | | 05/29/2008 | 0815 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 0.09533 | | 0.1000 | | 95.3 | 80.0-120.0 |
| Magnesium (Mg) | 0.09164 | | 0.1000 | | 91.6 | 80.0-120.0 |
| Potassium (K) | 0.61666 | | 0.60000 | | 102.8 | 80.0-120.0 |
| Sodium (Na) | 0.65671 | | 0.60000 | | 109.5 | 80.0-120.0 |

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|----------------------------|------------------------------|------------|------------|-------------|--------------|------------|
| CH1 | Calibration check standard 1 | MS050708T1 | | | 05/29/2008 | 1445 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 0.08328 | | 0.1000 | | 83.3 | 80.0-120.0 |
| Potassium (K) | 0.50439 | | 0.60000 | | 84.1 | 80.0-120.0 |
| Sodium (Na) | 0.71816 | | 0.60000 | | 119.7 | 80.0-120.0 |

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|----------------------------|-------------------------|------------|------------|-------------|--------------|------------|
| CH3 | Standard check for ICAP | MS041408T3 | | | 05/29/2008 | 0803 |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 20.20541 | | 20.00 | | 101.0 | 95.0-105.0 |
| Magnesium (Mg) | 19.72490 | | 20.00 | | 98.6 | 95.0-105.0 |
| Potassium (K) | 19.79903 | | 20.00 | | 99.0 | 95.0-105.0 |
| Sodium (Na) | 19.68125 | | 20.00 | | 98.4 | 95.0-105.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
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|----------------------------|------------------|-----------|------------|-------------|--------------|------------|
| EB | Extraction Blank | | 199632 | | 05/29/2008 | 1013 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | -0.00231 | | | | | |
| Magnesium (Mg), Diss. | 0.00276 | | | | | |
| Potassium (K), Diss. | 0.10852 | | | | | |
| Sodium (Na), Diss. | 0.01005 | | | | | |

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|----------------------------|---------------------------|-----------|------------|-------------|--------------|------------|
| ICB | Initial Calibration Blank | | | | 05/29/2008 | 0811 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 0.00103 | | | | | |
| Magnesium (Mg) | -0.00097 | | | | | |
| Potassium (K) | -0.02695 | | | | | |
| Sodium (Na) | 0.00452 | | | | | |

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|----------------------------|----------------------------------|------------|------------|-------------|--------------|------------|
| ICV | Initial Calibration Verification | MS052708CC | | | 05/29/2008 | 0807 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 12.59388 | | 12.50 | | 100.8 | 90.0-110.0 |
| Magnesium (Mg) | 4.90919 | | 5.000 | | 98.2 | 90.0-110.0 |
| Potassium (K) | 12.00958 | | 12.50 | | 96.1 | 90.0-110.0 |
| Sodium (Na) | 12.38603 | | 12.50 | | 99.1 | 90.0-110.0 |

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|----------------------------|-----------------------------|------------|------------|-------------|--------------|------------|
| ISA | Interference Check Sample A | MS040808IA | | | 05/29/2008 | 0819 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 494.77603 | | 500.0 | | 99.0 | 80-120 |
| Magnesium (Mg) | 546.43884 | | 500.0 | | 109.3 | 80-120 |
| Potassium (K) | 0.20911 | | 0.0 | | | |
| Sodium (Na) | 0.04385 | | 0.0 | | | |

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|----------------------------|-----------------------------|------------|------------|-------------|--------------|------------|
| ISA | Interference Check Sample A | MS040808IA | | | 05/29/2008 | 1449 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 479.79360 | | 500.0 | | 96.0 | 80-120 |
| Magnesium (Mg) | 551.14129 | | 500.0 | | 110.2 | 80-120 |
| Potassium (K) | 0.04916 | | 0.0 | | | |
| Sodium (Na) | 0.03625 | | 0.0 | | | |

| | | | | | | |
|----------------------------|-----------------------------|------------|------------|-------------|--------------|------------|
| ISB | Interference Check Sample B | MS040808IB | | | 05/29/2008 | 0823 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 502.67565 | | 510.0 | | 98.6 | 80.0-120.0 |
| Magnesium (Mg) | 562.39306 | | 510.0 | | 110.3 | 80.0-120.0 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

| | | | | | | |
|-----|-----------------------------|------------|--|--|------------|------|
| ISB | Interference Check Sample B | MS040808IB | | | 05/29/2008 | 1453 |
|-----|-----------------------------|------------|--|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca) | 491.45367 | | 510.0 | | 96.4 | | 80.0-120.0 | |
| Magnesium (Mg) | 563.99609 | | 510.0 | | 110.6 | | 80.0-120.0 | |

| | | | | | | |
|-----|---------------------------|---------|--------|--|------------|------|
| LCS | Laboratory Control Sample | MSPIKEW | 199632 | | 05/29/2008 | 1009 |
|-----|---------------------------|---------|--------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|------------|---|
| Calcium (Ca), Water | 10.24334 | | 10.00 | | 102.4 | | 80.0-120.0 | |
| Magnesium (Mg), Water | 9.79534 | | 10.00 | | 98.0 | | 80.0-120.0 | |
| Potassium (K), Water | 9.99814 | | 10.00 | | 100.0 | | 80.0-120.0 | |
| Sodium (Na), Water | 10.53637 | | 10.00 | | 105.4 | | 80.0-120.0 | |

| | | | | | | |
|----|--------------|--|--------|--|------------|------|
| MB | Method Blank | | 199632 | | 05/29/2008 | 1005 |
|----|--------------|--|--------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca), Water | -0.01249 | | | | | | | |
| Magnesium (Mg), Water | -0.00068 | | | | | | | |
| Potassium (K), Water | 0.09661 | | | | | | | |
| Sodium (Na), Water | -0.00537 | | | | | | | |

| | | | | | | |
|----|------------------|--|----------|--|------------|------|
| MD | Method Duplicate | | 354242-1 | | 05/29/2008 | 1021 |
|----|------------------|--|----------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|---------|---|
| Calcium (Ca), Diss. | 51.68273 | 51.67058 | | 51.67058 | 0.0 | | 20 | |
| Magnesium (Mg), Diss. | 16.77605 | 16.75135 | | 16.75135 | 0.1 | | 20 | |
| Potassium (K), Diss. | 4.12157 | 4.10070 | | 4.10070 | 0.02087 | | 2.00000 | |

| | | | | | | |
|----|------------------|--|----------|--|------------|------|
| MD | Method Duplicate | | 354242-2 | | 05/29/2008 | 1036 |
|----|------------------|--|----------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|---------|---|
| Calcium (Ca), Diss. | 55.23128 | 55.61986 | | 55.61986 | 0.7 | | 20 | |
| Magnesium (Mg), Diss. | 16.81045 | 16.96228 | | 16.96228 | 0.9 | | 20 | |
| Potassium (K), Diss. | 3.98999 | 3.99458 | | 3.99458 | 0.00459 | | 2.00000 | |

| | | | | | | |
|----|------------------|--|----------|----|------------|------|
| MD | Method Duplicate | | 354242-1 | 10 | 05/29/2008 | 1243 |
|----|------------------|--|----------|----|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|---------|---|
| Sodium (Na), Diss. | 5.48350 | 5.48244 | | 5.48244 | 0.00106 | | 2.00000 | |

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

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

| | | | | | | |
|--------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MD | Method Duplicate | | 354242-2 | 10 | 05/29/2008 | 1259 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 5.39143 | 5.40508 | | 5.40508 | 0.01365 - 2.00000 |

| | | | | | | |
|-----------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MS | Matrix Spike | MSPIKEW | 354242-1 | | 05/29/2008 | 1024 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 57.52444 | | 10.00 | 51.67058 | 58.5 - 75-125 |
| Magnesium (Mg), Diss. | | 24.98847 | | 10.00 | 16.75135 | 82.4 - 75-125 |
| Potassium (K), Diss. | | 14.14281 | | 10.00 | 4.10070 | 100.4 - 75-125 |

| | | | | | | |
|-----------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MS | Matrix Spike | MSPIKEW | 354242-2 | | 05/29/2008 | 1040 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 66.71949 | | 10.00 | 55.61986 | 111.0 - 75-125 |
| Magnesium (Mg), Diss. | | 27.43823 | | 10.00 | 16.96228 | 104.8 - 75-125 |
| Potassium (K), Diss. | | 15.34918 | | 10.00 | 3.99458 | 113.5 - 75-125 |

| | | | | | | |
|--------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MS | Matrix Spike | MSPIKEW | 354242-1 | 10 | 05/29/2008 | 1247 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 6.22633 | | 1.000000 | 5.48244 | 74.4 - 75-125 |

| | | | | | | |
|--------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MS | Matrix Spike | MSPIKEW | 354242-2 | 10 | 05/29/2008 | 1307 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Sodium (Na), Diss. | | 6.68598 | | 1.000000 | 5.40508 | 128.1 - 75-125 |

| | | | | | | |
|-----------------------|----------------------------|-----------|-----------|------------|-------------|-------------------------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-1 | | 05/29/2008 | 1028 |
| | Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result * Limits F |
| Calcium (Ca), Diss. | | 62.38913 | 57.52444 | 10.00 | 51.67058 | 107.2 - 75-125 |
| Magnesium (Mg), Diss. | | 27.41726 | 24.98847 | 10.00 | 16.75135 | 106.7 - 75-125 |
| Potassium (K), Diss. | | 15.22028 | 14.14281 | 10.00 | 4.10070 | 111.2 - 75-125 |
| | | | | | | 10.2 - 20 |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|------------------------|------------|----------|-----------------|------------|------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-2 | | 05/29/2008 | 1052 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|-----|--------|---|
| Calcium (Ca), Diss. | 65.91276 | 66.71949 | 10.00 | 55.61986 | 102.9 | 7.6 | 75-125 | |
| Magnesium (Mg), Diss. | 26.93963 | 27.43823 | 10.00 | 16.96228 | 99.8 | 4.9 | 75-125 | |
| Potassium (K), Diss. | 15.07207 | 15.34918 | 10.00 | 3.99458 | 110.8 | 2.4 | 75-125 | |

| MSD | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----|------------------------|------------|----------|-----------------|------------|------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-1 | 10 | 05/29/2008 | 1251 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|------|--------|---|
| Sodium (Na), Diss. | 6.53246 | 6.22633 | 1.000000 | 5.48244 | 105.0 | 34.1 | 75-125 | C |

| MSD | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----|------------------------|------------|----------|-----------------|------------|------|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354242-2 | 10 | 05/29/2008 | 1311 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|-----|--------|---|
| Sodium (Na), Diss. | 6.67477 | 6.68598 | 1.000000 | 5.40508 | 127.0 | 0.9 | 75-125 | |

| PDS | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----|----------------------|------------|----------|-----------------|------------|------|
| PDS | Post Digestion Spike | MSPIKE3 | 354242-1 | 10 | 05/29/2008 | 1224 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca), Diss. | 60.94198 | | 10.00 | 51.67058 | 92.7 | | 75-125 | |
| Magnesium (Mg), Diss. | 26.81998 | | 10.00 | 16.75135 | 100.7 | | 75-125 | |
| Potassium (K), Diss. | 15.15862 | | 10.00 | 4.10070 | 110.6 | | 75-125 | |

| PDS | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|-----|----------------------|------------|----------|-----------------|------------|------|
| PDS | Post Digestion Spike | MSPIKE3 | 354242-1 | 10 | 05/29/2008 | 1414 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Sodium (Na), Diss. | 15.55409 | | 10.00 | 5.48244 | 100.7 | | 75-125 | |

| S0 | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|----|-------------------|------------|--------|-----------------|------------|------|
| S0 | Calibration Blank | | | | 05/29/2008 | 0755 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|---|--------|---|
| Calcium (Ca) | 0.00267 | | | | | | | |
| Magnesium (Mg) | 0.00934 | | | | | | | |
| Potassium (K) | 0.23878 | | | | | | | |
| Sodium (Na) | 0.02152 | | | | | | | |

QUALITY CONTROL RESULTS

Job Number.: 354242

Report Date.: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNTY NM

ATTN:

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

| | | | | | | |
|----------------------------|-----------------|-----------|------------|-------------|--------------|------------|
| SD | Serial Dilution | | 354242-1 | 5 | 05/29/2008 | 1228 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca), Diss. | 10.11188 | | | 51.67058 | 2.2 | 10.0 |
| Magnesium (Mg), Diss. | 3.28491 | | | 16.75135 | 2.0 | 10.0 |
| Potassium (K), Diss. | 0.72551 | | | 4.10070 | 11.5 | 10.0 |
| Sodium (Na), Diss. | 10.36567 | | | 41.82718 | 23.9 | 10.0 |

| | | | | | | |
|----------------------------|-----------------|-----------|------------|-------------|--------------|------------|
| SD | Serial Dilution | | 354242-1 | 50 | 05/29/2008 | 1418 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |

Sodium (Na), Diss.

1.14193

5.48244

4.1

10.0

| | | | | | | |
|----------------------------|------------------------|-----------|------------|-------------|--------------|-----------------|
| STD | Spiked Blank Duplicate | | | | | 05/29/2008 0759 |
| <hr/> | | | | | | |
| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits F |
| Calcium (Ca) | 0.26482 | | | | | |
| Magnesium (Mg) | 0.42311 | | | | | |
| Potassium (K) | 2.14701 | | | | | |
| Sodium (Na) | 5.66228 | | | | | |

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/03/2008

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 reported 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 diphenylamine 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.
- Trimethylsilyl(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, multiply 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 correction required for water analysis is for method 1006 where the reported concentration must be multiplied by 0.1.
- Due to limitation 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 reviewed.
- 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 characterization 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
-

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/03/2008

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. Phthalates 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 coefficient 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 - GFQA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/03/2008

| | |
|-------|---------------------------------------|
| 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.

LABORATORY CHRONICLE

Job Number: 354242

Date: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNT

ATTN: Todd Wells

| Lab ID: 354242-1 Client ID: MW-8 | | Date Recvd: 05/16/2008 | Sample Date: 05/15/2008 | | | |
|-----------------------------------|--|------------------------|-------------------------|--------------|--------------------|----------|
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1407 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1422 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1407 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1017 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1240 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-2 Client ID: MW-9 | | Date Recvd: 05/16/2008 | Sample Date: 05/15/2008 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1745 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1801 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1745 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1032 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1255 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-3 Client ID: MW-9A | | Date Recvd: 05/16/2008 | Sample Date: 05/15/2008 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1438 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1453 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1438 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1056 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1314 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-4 Client ID: MW-10 | | Date Recvd: 05/16/2008 | Sample Date: 05/15/2008 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1540 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1556 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1540 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1100 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1318 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-5 Client ID: MW-11 | | Date Recvd: 05/16/2008 | Sample Date: 05/15/2008 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1643 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1659 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1643 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1104 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1331 | 10 |

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

Job Number: 354242

Date: 06/03/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: COOPER JAL LEA COUNT

ATTN: Todd Wells

| Lab ID: | Client ID: | Date Recvd: | Sample Date: | | | |
|--|--|---|--------------|---------------|--------------------|----------|
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT # (S) | DATE/TIME ANALYZED | DILUTION |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-5 Client ID: MW-11 | | Date Recvd: 05/16/2008 Sample Date: 05/15/2008 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT # (S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1714 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1730 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1714 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1107 | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1335 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |
| Lab ID: 354242-6 Client ID: DUPE | | Date Recvd: 05/16/2008 Sample Date: 05/15/2008 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT # (S) | DATE/TIME ANALYZED | DILUTION |
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199632 | | 05/28/2008 1550 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1714 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 199085 | | 05/16/2008 1730 | 10 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 199085 | | 05/16/2008 1714 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1107 | |
| SM-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199712 | 199632 | 05/29/2008 1335 | 10 |
| N/A | Sample Filtration | 1 | 199605 | | 05/28/2008 1300 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199101 | | 05/16/2008 1600 | |

Chain of Custody Record

TAL-4124 (1007)

Client **CRA**Address **2135 S. Loop 250 N.**City **Midland**State **TX**Zip Code **79703**Project Name and Location (State) **Cooper - Taft, Lee County, NM**Contract/Purchase Order/Quote No. **4012444**

(Containers for each sample may be combined on one line)

| Sample I.D. No. and Description | Date | Time | Matrix | Containers & Preservatives |
|---------------------------------|---------|------|--------|----------------------------|
| MW-8 | 5-15-08 | 1440 | Soil | |
| MW-9 | 5-15-08 | 1350 | Soil | |
| MW-9A | 5-15-08 | 1335 | Soil | |
| MW-10 | 5-15-08 | 1410 | Soil | |
| MW-11 | 5-15-08 | 1240 | Soil | |
| Dupe | 5-15-08 | — | Soil | |

Temperature on Receipt _____

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

354242

TestAmerica

| Project Manager Todd Wells | Date 5-15-08 | Chain of Custody Number 070839 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------------------------|---------------------------------|----------------------------|--------------------------|--------------------------|----------------------------|---------------------------|-------------|-----------------|---------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| Telephone Number (Area Code)/Fax Number (432) 686-0086/(432) 686-0166 | Lab Number 1 | Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Contact T. Wells | Analysis (Attach list if more space is needed) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab Contact Sachin Kudchaker | Special Instructions/ Conditions of Receipt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carrier/Waybill Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample I.D. No. and Description</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>Containers & Preservatives</th> </tr> </thead> <tbody> <tr> <td>MW-8</td> <td>5-15-08</td> <td>1440</td> <td>Soil</td> <td></td></tr> <tr> <td>MW-9</td> <td>5-15-08</td> <td>1350</td> <td>Soil</td> <td></td></tr> <tr> <td>MW-9A</td> <td>5-15-08</td> <td>1335</td> <td>Soil</td> <td></td></tr> <tr> <td>MW-10</td> <td>5-15-08</td> <td>1410</td> <td>Soil</td> <td></td></tr> <tr> <td>MW-11</td> <td>5-15-08</td> <td>1240</td> <td>Soil</td> <td></td></tr> <tr> <td>Dupe</td> <td>5-15-08</td> <td>—</td> <td>Soil</td> <td></td></tr> </tbody> </table> | | | Sample I.D. No. and Description | Date | Time | Matrix | Containers & Preservatives | MW-8 | 5-15-08 | 1440 | Soil | | MW-9 | 5-15-08 | 1350 | Soil | | MW-9A | 5-15-08 | 1335 | Soil | | MW-10 | 5-15-08 | 1410 | Soil | | MW-11 | 5-15-08 | 1240 | Soil | | Dupe | 5-15-08 | — | Soil | | | | | | | | | | | | | | | | |
| Sample I.D. No. and Description | Date | Time | Matrix | Containers & Preservatives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-8 | 5-15-08 | 1440 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9 | 5-15-08 | 1350 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9A | 5-15-08 | 1335 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 5-15-08 | 1410 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-11 | 5-15-08 | 1240 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dupe | 5-15-08 | — | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Possible Hazard Identification</th> <th>Non-Hazard</th> <th>Flammable</th> <th>Skin Irritant</th> <th>Poison B</th> <th>Unknown</th> <th>Other</th> <th>Sample Disposal</th> <th>QC Requirements (Specify)</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> </tr> </tbody> </table> | | | Possible Hazard Identification | Non-Hazard | Flammable | Skin Irritant | Poison B | Unknown | Other | Sample Disposal | QC Requirements (Specify) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| Possible Hazard Identification | Non-Hazard | Flammable | Skin Irritant | Poison B | Unknown | Other | Sample Disposal | QC Requirements (Specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Turn Around Time Required</th> <th>48 Hours</th> <th>7 Days</th> <th>14 Days</th> <th>21 Days</th> <th>Other</th> <th>Date</th> <th>Time</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>5-15-08</td> <td>1730</td> <td>5-16-08</td> <td>0129</td> </tr> <tr> <td>1. Relinquished By Todd Wells</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2. Relinquished By</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3. Relinquished By</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | Turn Around Time Required | 48 Hours | 7 Days | 14 Days | 21 Days | Other | Date | Time | Date | Time | <input type="checkbox"/> | 5-15-08 | 1730 | 5-16-08 | 0129 | 1. Relinquished By Todd Wells | | | | | | | | | | 2. Relinquished By | | | | | | | | | | 3. Relinquished By | | | | | | | | | |
| Turn Around Time Required | 48 Hours | 7 Days | 14 Days | 21 Days | Other | Date | Time | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5-15-08 | 1730 | 5-16-08 | 0129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Relinquished By Todd Wells | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Relinquished By | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Relinquished By | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-3328-1

Job Description: Analytical Chevron

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
11/17/2008 9:37 AM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
11/17/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

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

TestAmerica Laboratories, Inc.
TestAmerica Houston 6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3328-1 MW-1 11408 | | | | | |
| Chloride | 110 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.6 | | 0.20 | mg/L | 300.0 |
| Fluoride | 6.3 | | 0.30 | mg/L | 300.0 |
| Sulfate | 83 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 190 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 190 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 590 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 180 | B | 10 | mg/L | 6010B |
| Potassium | 7.9 | | 1.0 | mg/L | 6010B |
| Calcium | 10 | B | 1.0 | mg/L | 6010B |
| Magnesium | 5.8 | | 1.0 | mg/L | 6010B |
| 600-3328-2 MW-2 11408 | | | | | |
| Chloride | 2900 | | 40 | mg/L | 300.0 |
| Nitrate as N | 1.1 | | 1.0 | mg/L | 300.0 |
| Sulfate | 430 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 150 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 5600 | | 20 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 1200 | B | 100 | mg/L | 6010B |
| Potassium | 26 | | 1.0 | mg/L | 6010B |
| Calcium | 380 | B | 1.0 | mg/L | 6010B |
| Magnesium | 160 | | 1.0 | mg/L | 6010B |
| 600-3328-3 MW-2A 11408 | | | | | |
| Chloride | 68 | ^ | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.4 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.49 | ^ | 0.30 | mg/L | 300.0 |
| Sulfate | 74 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 220 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 220 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 470 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 42 | B | 10 | mg/L | 6010B |
| Potassium | 3.2 | | 1.0 | mg/L | 6010B |
| Calcium | 67 | B | 1.0 | mg/L | 6010B |
| Magnesium | 15 | | 1.0 | mg/L | 6010B |

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3328-4 MW-9 11408 | | | | | |
| Chloride | 39 | ^ | 0.40 | mg/L | 300.0 |
| Nitrate as N | 1.4 | | 0.20 | mg/L | 300.0 |
| Fluoride | 2.1 | ^ | 0.30 | mg/L | 300.0 |
| Sulfate | 98 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 160 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 160 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 440 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 47 | B | 10 | mg/L | 6010B |
| Potassium | 3.7 | | 1.0 | mg/L | 6010B |
| Calcium | 54 | B | 1.0 | mg/L | 6010B |
| Magnesium | 16 | | 1.0 | mg/L | 6010B |
| 600-3328-5 MW-9A 11408 | | | | | |
| Chloride | 330 | ^ | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.2 | | 0.20 | mg/L | 300.0 |
| Sulfate | 84 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 370 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 370 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 1000 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 66 | B | 10 | mg/L | 6010B |
| Potassium | 5.1 | | 1.0 | mg/L | 6010B |
| Calcium | 130 | B | 1.0 | mg/L | 6010B |
| Magnesium | 32 | | 1.0 | mg/L | 6010B |
| 600-3328-6 MW-11 11408 | | | | | |
| Chloride | 49 | ^ | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.3 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.5 | J ^ | 3.0 | mg/L | 300.0 |
| Sulfate | 90 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 170 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 170 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 440 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Sodium | 47 | B | 10 | mg/L | 6010B |
| Potassium | 3.6 | | 1.0 | mg/L | 6010B |
| Calcium | 60 | B | 1.0 | mg/L | 6010B |
| Magnesium | 16 | | 1.0 | mg/L | 6010B |

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Description | Lab Location | Method | Preparation Method |
|-------------------------------|--------------|-------------|--------------------|
| Matrix Water | | | |
| Metals (ICP) | TAL HOU | SW846 6010B | |
| Sample Filtration | TAL HOU | | FILTRATION |
| Preparation, Total Metals | TAL HOU | | SW846 3010A |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Alkalinity | TAL HOU | SM SM 2320B | |
| Solids, Total Dissolved (TDS) | TAL HOU | SM SM 2540C | |

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.

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

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

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Method | Analyst | Analyst ID |
|-------------|---------------------|------------|
| SW846 6010B | Patel, Silen R | SRP |
| MCAWW 300.0 | Puranik, Surendra U | SUP |
| SM SM 2320B | Gregory, Sharita N | SNG |
| SM SM 2540C | Watson, Don A | DAW |

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 600-3328-1 | MW-1 11408 | Water | 11/04/2008 1350 | 11/05/2008 0917 |
| 600-3328-2 | MW-2 11408 | Water | 11/04/2008 1205 | 11/05/2008 0917 |
| 600-3328-3 | MW-2A 11408 | Water | 11/04/2008 1310 | 11/05/2008 0917 |
| 600-3328-4 | MW-9 11408 | Water | 11/04/2008 1540 | 11/05/2008 0917 |
| 600-3328-5 | MW-9A 11408 | Water | 11/04/2008 1615 | 11/05/2008 0917 |
| 600-3328-6 | MW-11 11408 | Water | 11/04/2008 1445 | 11/05/2008 0917 |

SAMPLE RESULTS

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

Job Number: 600-3328-1

Client Sample ID: MW-1 11408 **Date Sampled:** 11/04/2008 1350
Lab Sample ID: 600-3328-1 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 0936 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 7.9 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 10 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 5.8 | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1336 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 180 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1112 | |
| Nitrate as N | 1.6 | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 6.3 | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1132 | |
| Chloride | 110 | mg/L | 1.0 | 4.0 | 10 |
| Sulfate | 83 | mg/L | 2.0 | 5.0 | 10 |

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Midland, TX 79703

Job Number: 600-3328-1

Client Sample ID: MW-1 11408 **Date Sampled:** 11/04/2008 1350
Lab Sample ID: 600-3328-1 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 190 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 190 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 590 | mg/L | 10 | 10 | 1.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-2 11408 **Date Sampled:** 11/04/2008 1205
Lab Sample ID: 600-3328-2 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 0950 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 26 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 380 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 160 | | mg/L | 0.019 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1351 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 1200 | B | mg/L | 2.0 | 100 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1152 | |
| Nitrate as N | 1.1 | | mg/L | 0.25 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1212 | |
| Fluoride | 1.0 | U | mg/L | 1.0 | 3.0 |
| Sulfate | 430 | | mg/L | 2.0 | 5.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1232 | |
| Chloride | 2900 | | mg/L | 10 | 40 |
| | | | | | 100 |

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Job Number: 600-3328-1

Client Sample ID: MW-2 11408 **Date Sampled:** 11/04/2008 1205
Lab Sample ID: 600-3328-2 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 5600 | mg/L | 20 | 20 | 1.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-2A 11408 **Date Sampled:** 11/04/2008 1310
Lab Sample ID: 600-3328-3 **Date Received:** 11/05/2008 0917
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 0954 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 3.2 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 67 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 15 | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1355 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 42 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/05/2008 1951 | |
| Nitrate as N | 1.4 | mg/L | 0.050 | 0.20 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1332 | |
| Fluoride | 0.49 | ^ | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1352 | |
| Chloride | 68 | ^ | mg/L | 1.0 | 4.0 |
| Sulfate | 74 | mg/L | 2.0 | 5.0 | 10 |

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Job Number: 600-3328-1

Client Sample ID: MW-2A 11408
Lab Sample ID: 600-3328-3

Date Sampled: 11/04/2008 1310
Date Received: 11/05/2008 0917
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 220 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 220 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 470 | mg/L | 10 | 10 | 1.0 |

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Midland, TX 79703

Job Number: 600-3328-1

Client Sample ID: MW-9 11408 **Date Sampled:** 11/04/2008 1540
Lab Sample ID: 600-3328-4 **Date Received:** 11/05/2008 0917
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 0958 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 3.7 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 54 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 16 | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1358 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 47 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/05/2008 2031 | |
| Nitrate as N | 1.4 | mg/L | 0.050 | 0.20 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1612 | |
| Chloride | 39 | ^ | mg/L | 0.10 | 0.40 |
| Fluoride | 2.1 | ^ | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1632 | |
| Sulfate | 98 | mg/L | 2.0 | 5.0 | 10 |

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Job Number: 600-3328-1

Client Sample ID: MW-9 11408 **Date Sampled:** 11/04/2008 1540
Lab Sample ID: 600-3328-4 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 160 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 160 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 440 | mg/L | 10 | 10 | 1.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-9A 11408 **Date Sampled:** 11/04/2008 1615
Lab Sample ID: 600-3328-5 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1001 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 5.1 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 130 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 32 | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1402 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 66 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1452 | |
| Nitrate as N | 1.2 | mg/L | 0.050 | 0.20 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1512 | |
| Chloride | 330 | ^ | mg/L | 1.0 | 4.0 |
| Fluoride | 1.0 | U ^ | mg/L | 1.0 | 3.0 |
| Sulfate | 84 | | mg/L | 2.0 | 5.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-9A 11408
Lab Sample ID: 600-3328-5

Date Sampled: 11/04/2008 1615
Date Received: 11/05/2008 0917
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 370 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 370 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 1000 | mg/L | 10 | 10 | 1.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-11 11408 **Date Sampled:** 11/04/2008 1445
Lab Sample ID: 600-3328-6 **Date Received:** 11/05/2008 0917
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1005 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Potassium | 3.6 | mg/L | 0.13 | 1.0 | 1.0 |
| Calcium | 60 | B | mg/L | 0.022 | 1.0 |
| Magnesium | 16 | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1406 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 47 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1412 | |
| Nitrate as N | 1.3 | mg/L | 0.050 | 0.20 | 1.0 |
| Method: 300.0 | | | Date Analyzed: | 11/06/2008 1432 | |
| Chloride | 49 | ^ | mg/L | 1.0 | 4.0 |
| Fluoride | 1.5 | J ^ | mg/L | 1.0 | 3.0 |
| Sulfate | 90 | | mg/L | 2.0 | 5.0 |

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Job Number: 600-3328-1

Client Sample ID: MW-11 11408
Lab Sample ID: 600-3328-6

Date Sampled: 11/04/2008 1445
Date Received: 11/05/2008 0917
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 170 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 170 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/05/2008 1500 | |
| Total Dissolved Solids | 440 | mg/L | 10 | 10 | 1.0 |

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

| Lab Section | Qualifier | Description |
|-------------------|-----------|---|
| Metals | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| General Chemistry | | |
| | F | Duplicate RPD exceeds the control limit |
| | ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA or MRL standard: Instrument related QC exceeds the control limits. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

QUALITY CONTROL RESULTS

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|---------------------------------|---------------------------|--------|---------------|--------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| Metals | | | | | | |
| Prep Batch: 600-5626 | | | | | | |
| LCS 600-5626/2-A | Lab Control Spike | T | Water | 3010A | | |
| MB 600-5626/1-A | Method Blank | T | Water | 3010A | | |
| LB 600-5616/1-B | TCLP SPLPE Leachate Blank | D | Water | 3010A | | |
| 600-3328-1 | MW-1 11408 | D | Water | 3010A | | |
| 600-3328-1DU | Duplicate | D | Water | 3010A | | |
| 600-3328-1MS | Matrix Spike | D | Water | 3010A | | |
| 600-3328-1MSD | Matrix Spike Duplicate | D | Water | 3010A | | |
| 600-3328-2 | MW-2 11408 | D | Water | 3010A | | |
| 600-3328-3 | MW-2A 11408 | D | Water | 3010A | | |
| 600-3328-4 | MW-9 11408 | D | Water | 3010A | | |
| 600-3328-5 | MW-9A 11408 | D | Water | 3010A | | |
| 600-3328-6 | MW-11 11408 | D | Water | 3010A | | |
| Analysis Batch: 600-5669 | | | | | | |
| LCS 600-5626/2-A | Lab Control Spike | T | Water | 6010B | 600-5626 | |
| MB 600-5626/1-A | Method Blank | T | Water | 6010B | 600-5626 | |
| LB 600-5616/1-B | TCLP SPLPE Leachate Blank | D | Water | 6010B | 600-5626 | |
| 600-3328-1 | MW-1 11408 | D | Water | 6010B | 600-5626 | |
| 600-3328-1DU | Duplicate | D | Water | 6010B | 600-5626 | |
| 600-3328-1MS | Matrix Spike | D | Water | 6010B | 600-5626 | |
| 600-3328-1MSD | Matrix Spike Duplicate | D | Water | 6010B | 600-5626 | |
| 600-3328-2 | MW-2 11408 | D | Water | 6010B | 600-5626 | |
| 600-3328-3 | MW-2A 11408 | D | Water | 6010B | 600-5626 | |
| 600-3328-4 | MW-9 11408 | D | Water | 6010B | 600-5626 | |
| 600-3328-5 | MW-9A 11408 | D | Water | 6010B | 600-5626 | |
| 600-3328-6 | MW-11 11408 | D | Water | 6010B | 600-5626 | |

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|--------------------------------|-------------------|--------|---------------|----------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| General Chemistry | | | | | | |
| Analysis Batch:600-5316 | | | | | | |
| LCS 600-5316/2 | Lab Control Spike | T | Water | SM 2540C | | |
| MB 600-5316/1 | Method Blank | T | Water | SM 2540C | | |
| 600-3328-1 | MW-1 11408 | T | Water | SM 2540C | | |
| 600-3328-2 | MW-2 11408 | T | Water | SM 2540C | | |
| 600-3328-3 | MW-2A 11408 | T | Water | SM 2540C | | |
| 600-3328-4 | MW-9 11408 | T | Water | SM 2540C | | |
| 600-3328-5 | MW-9A 11408 | T | Water | SM 2540C | | |
| 600-3328-6 | MW-11 11408 | T | Water | SM 2540C | | |
| Analysis Batch:600-5346 | | | | | | |
| LCS 600-5346/18 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5346/19 | Method Blank | T | Water | 300.0 | | |
| 600-3328-1 | MW-1 11408 | T | Water | 300.0 | | |
| 600-3328-2 | MW-2 11408 | T | Water | 300.0 | | |
| 600-3328-3 | MW-2A 11408 | T | Water | 300.0 | | |
| 600-3328-4 | MW-9 11408 | T | Water | 300.0 | | |
| 600-3328-5 | MW-9A 11408 | T | Water | 300.0 | | |
| 600-3328-5DU | Duplicate | T | Water | 300.0 | | |
| 600-3328-5MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3328-6 | MW-11 11408 | T | Water | 300.0 | | |
| Analysis Batch:600-5348 | | | | | | |
| LCS 600-5348/4 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5348/3 | Method Blank | T | Water | 300.0 | | |
| 600-3328-1 | MW-1 11408 | T | Water | 300.0 | | |
| 600-3328-2 | MW-2 11408 | T | Water | 300.0 | | |
| 600-3328-5 | MW-9A 11408 | T | Water | 300.0 | | |
| 600-3328-5DU | Duplicate | T | Water | 300.0 | | |
| 600-3328-5MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3328-6 | MW-11 11408 | T | Water | 300.0 | | |
| Analysis Batch:600-5384 | | | | | | |
| LCS 600-5384/4 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5384/3 | Method Blank | T | Water | 300.0 | | |
| 600-3328-3 | MW-2A 11408 | T | Water | 300.0 | | |
| 600-3328-4 | MW-9 11408 | T | Water | 300.0 | | |
| 600-3328-5DU | Duplicate | T | Water | 300.0 | | |
| 600-3328-5MS | Matrix Spike | T | Water | 300.0 | | |

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | Prep Batch | | |
|--------------------------------|-------------------|--------|---------------|----------|------------|--|--|
| | | Basis | Client Matrix | Method | | | |
| General Chemistry | | | | | | | |
| Analysis Batch:600-5663 | | | | | | | |
| LCS 600-5663/2 | Lab Control Spike | T | Water | SM 2320B | | | |
| MB 600-5663/1 | Method Blank | T | Water | SM 2320B | | | |
| 600-3328-1 | MW-1 11408 | T | Water | SM 2320B | | | |
| 600-3328-2 | MW-2 11408 | T | Water | SM 2320B | | | |
| 600-3328-3 | MW-2A 11408 | T | Water | SM 2320B | | | |
| 600-3328-4 | MW-9 11408 | T | Water | SM 2320B | | | |
| 600-3328-5 | MW-9A 11408 | T | Water | SM 2320B | | | |
| 600-3328-6 | MW-11 11408 | T | Water | SM 2320B | | | |

Report Basis

T = Total

Quality Control Results

Surrogate Recovery Report

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-5626/1-A Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 0848
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Sodium | 0.020 | U | 0.020 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Calcium | 0.022 | U | 0.022 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |

TCLP SPLPE Leachate Blank - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: LB 600-5616/1-B Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 0910
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Sodium | 0.067 | J | 0.020 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Calcium | 0.031 | J | 0.022 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Lab Control Spike - Batch: 600-5626

Method: 6010B

Preparation: 3010A

| | | | | | |
|----------------|------------------|-----------------|----------|------------------------|-------------|
| Lab Sample ID: | LCS 600-5626/2-A | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 1.0 | Units: | mg/L | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 0852 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| Sodium | 10.0 | 10.0 | 100 | 80 - 120 | |
| Potassium | 10.0 | 10.1 | 101 | 80 - 120 | |
| Calcium | 10.0 | 10.3 | 103 | 80 - 120 | |
| Magnesium | 10.0 | 10.2 | 102 | 80 - 120 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-5626**

Method: 6010B

Preparation: 3010A

Dissolved

| | | | | | |
|-------------------|-----------------|-----------------|----------|------------------------|-------------|
| MS Lab Sample ID: | 600-3328-1 | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 0943 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|----------|------------------------|-------------|
| MSD Lab Sample ID: | 600-3328-1 | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 0947 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Sodium | 76 | 69 | 75 - 125 | 0 | 20 | 4 | 4 |
| Potassium | 120 | 120 | 75 - 125 | 0 | 20 | | |
| Calcium | 102 | 102 | 75 - 125 | 0 | 20 | | |
| Magnesium | 102 | 102 | 75 - 125 | 0 | 20 | | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-5626**

Method: 6010B

Preparation: 3010A

Dissolved

| | | | | | |
|-------------------|-----------------|-----------------|----------|------------------------|-------------|
| MS Lab Sample ID: | 600-3328-1 | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 10 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 1344 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|----------|------------------------|-------------|
| MSD Lab Sample ID: | 600-3328-1 | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 10 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 1347 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Sodium | 125 | 100 | 75 - 125 | 1 | 20 | 4 | 4 |
| Potassium | 106 | 98 | 75 - 125 | 5 | 20 | | |
| Calcium | 102 | 100 | 75 - 125 | 1 | 20 | | |
| Magnesium | 102 | 99 | 75 - 125 | 2 | 20 | | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Duplicate - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3328-1 Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 0939
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|-----------|--------------------|--------|-----|-------|------|
| Sodium | 160 | 161 | 2 | 20 | |
| Potassium | 7.9 | 7.77 | 2 | 20 | |
| Calcium | 10 | 10.0 | 1 | 20 | |
| Magnesium | 5.8 | 5.69 | 2 | 20 | |

Duplicate - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3328-1 Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 10 Units: mg/L
Date Analyzed: 11/13/2008 1340
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|-----------|--------------------|--------|-----|-------|------|
| Sodium | 180 | 176 | 1 | 20 | |
| Potassium | 7.0 J | 6.51 | 7 | 20 | J |
| Calcium | 10 | 9.99 | 3 | 20 | J |
| Magnesium | 5.8 J | 5.67 | 3 | 20 | J |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5346

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5346/19 Analysis Batch: 600-5346
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/06/2008 1032
Date Prepared: N/A

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 |
| Fluoride | 0.10 | U | 0.10 | 0.30 |
| Sulfate | 0.20 | U | 0.20 | 0.50 |

Lab Control Spike - Batch: 600-5346

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5346/18 Analysis Batch: 600-5346
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/06/2008 1052
Date Prepared: N/A

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 | |
| Fluoride | 10.0 | 10.6 | 106 | 90 - 110 | |
| Sulfate | 20.0 | 18.9 | 95 | 90 - 110 | |

Matrix Spike - Batch: 600-5346

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3328-5 Analysis Batch: 600-5346
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/06/2008 1552
Date Prepared: N/A

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 | 330 | 100 | 398 | 65 | 90 - 110 | F |
| Fluoride | 1.0 | U | 20.0 | 108 | 90 - 110 | ^ |
| Sulfate | 84 | 100 | 176 | 92 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Duplicate - Batch: 600-5346

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|----------|
| Lab Sample ID: | 600-3328-5 | Analysis Batch: | 600-5346 | Instrument ID: | ICS20000 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 10 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/06/2008 1532 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|----------|--------------------|--------|-----|-------|------|
| Chloride | 330 | 326 | 2 | 20 | |
| Fluoride | 1.0 | U | 1.0 | NC | 20 |
| Sulfate | 84 | 81.8 | 2 | 20 | U ^ |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5348

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5348/3 Analysis Batch: 600-5348
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/06/2008 1032
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|--------------|--------|------|-------|------|
| Nitrate as N | 0.050 | U | 0.050 | 0.20 |

Lab Control Spike - Batch: 600-5348

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5348/4 Analysis Batch: 600-5348
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/06/2008 1052
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------|--------|--------|----------|------|
| Nitrate as N | 10.0 | 9.91 | 99 | 90 - 110 | |

Matrix Spike - Batch: 600-5348

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3328-5 Analysis Batch: 600-5348
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/06/2008 1552
Date Prepared: N/A

Instrument ID: No Equipment Assigned
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 |
|--------------|--------------------|--------------|--------|--------|----------|------|
| Nitrate as N | 1.2 | 20.0 | 20.8 | 98 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Duplicate - Batch: 600-5348**Method: 300.0****Preparation: N/A**

Lab Sample ID: 600-3328-5

Analysis Batch: 600-5348

Instrument ID: No Equipment Assigned

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 10

Units: mg/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/06/2008 1532

Final Weight/Volume: 5 mL

Date Prepared: N/A

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|--------------|--------------------|--------|-----|-------|------|
| Nitrate as N | 0.91 J | 0.920 | 1 | 20 | J |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5384

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|-----------------------|
| Lab Sample ID: | MB 600-5384/3 | Analysis Batch: | 600-5384 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/05/2008 1651 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|--------------|--------|------|-------|------|
| Nitrate as N | 0.050 | U | 0.050 | 0.20 |

Lab Control Spike - Batch: 600-5384

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|-----------------------|
| Lab Sample ID: | LCS 600-5384/4 | Analysis Batch: | 600-5384 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/05/2008 1711 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------|--------|--------|----------|------|
| Nitrate as N | 10.0 | 9.93 | 99 | 90 - 110 | |

Matrix Spike - Batch: 600-5384

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|-----------------------|
| Lab Sample ID: | 600-3328-5 | Analysis Batch: | 600-5384 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 10 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/05/2008 2208 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Sample Result/Qual | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------------|--------------|--------|--------|----------|------|
| Nitrate as N | 1.3 | 20.0 | 0.960 | -2 | 90 - 110 | J F |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Duplicate - Batch: 600-5384

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3328-5

Analysis Batch: 600-5384

Instrument ID: No Equipment Assigned

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 10

Units: mg/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/05/2008 2148

Final Weight/Volume: 5 mL

Date Prepared: N/A

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|--------------|--------------------|--------|-----|-------|------|
| Nitrate as N | 1.3 | 0.960 | 30 | 20 | J F |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5663

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 600-5663/1 Analysis Batch: 600-5663
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/12/2008 1730
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL | RL |
|---|--------|------|-----|-----|
| Alkalinity | 2.5 | U | 2.5 | 2.5 |
| Bicarbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Carbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Hydroxide Alkalinity | 2.5 | U | 2.5 | 2.5 |

Lab Control Spike - Batch: 600-5663

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 600-5663/2 Analysis Batch: 600-5663
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/12/2008 1730
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------|--------------|--------|--------|----------|------|
| Alkalinity | 1000 | 951 | 95 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3328-1

Method Blank - Batch: 600-5316

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 600-5316/1 Analysis Batch: 600-5316
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/05/2008 1500
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Result | Qual | RL | RL |
|------------------------|--------|------|----|----|
| Total Dissolved Solids | 10 | U | 10 | 10 |

Lab Control Spike - Batch: 600-5316

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 600-5316/2 Analysis Batch: 600-5316
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/05/2008 1500
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|--------|----------|------|
| Total Dissolved Solids | 1800 | 1800 | 100 | 90 - 110 | |

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: 600-3328-1

Login Number: 3328

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 | 3.3 |
| 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 | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-3434-1

Job Description: Cooper Jal NM

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
11/17/2008 9:37 AM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
11/17/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

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

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EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3434-1 MW-3 | | | | | |
| Chloride | 36 | | 0.40 | mg/L | 300.0 |
| Nitrate as N | 1.4 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.1 | | 0.30 | mg/L | 300.0 |
| Sulfate | 97 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 150 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 430 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 50 | B | 1.0 | mg/L | 6010B |
| Potassium | 4.0 | | 1.0 | mg/L | 6010B |
| Magnesium | 17 | | 1.0 | mg/L | 6010B |
| Sodium | 48 | B | 10 | mg/L | 6010B |
| 600-3434-2 MW-5 | | | | | |
| Chloride | 4900 | | 40 | mg/L | 300.0 |
| Nitrate as N | 0.32 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.78 | J | 1.5 | mg/L | 300.0 |
| Sulfate | 540 | | 50 | mg/L | 300.0 |
| Alkalinity | 160 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 160 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 9700 | | 40 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 660 | B | 1.0 | mg/L | 6010B |
| Potassium | 35 | | 1.0 | mg/L | 6010B |
| Magnesium | 310 | | 1.0 | mg/L | 6010B |
| Sodium | 1600 | B | 100 | mg/L | 6010B |
| 600-3434-3 MW-5A | | | | | |
| Chloride | 53 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.3 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.70 | | 0.30 | mg/L | 300.0 |
| Sulfate | 72 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 350 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 350 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 450 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 76 | B | 1.0 | mg/L | 6010B |
| Potassium | 3.4 | | 1.0 | mg/L | 6010B |
| Magnesium | 15 | | 1.0 | mg/L | 6010B |
| Sodium | 43 | B | 10 | mg/L | 6010B |

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3434-4 MW-6 | | | | | |
| Chloride | 84 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.2 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.2 | | 0.30 | mg/L | 300.0 |
| Sulfate | 95 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 220 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 220 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 490 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 67 | B | 1.0 | mg/L | 6010B |
| Potassium | 4.3 | | 1.0 | mg/L | 6010B |
| Magnesium | 21 | | 1.0 | mg/L | 6010B |
| Sodium | 53 | B | 10 | mg/L | 6010B |
| 600-3434-5 MW-10 | | | | | |
| Chloride | 210 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.3 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.5 | | 0.30 | mg/L | 300.0 |
| Sulfate | 89 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 150 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 730 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 110 | B | 1.0 | mg/L | 6010B |
| Potassium | 5.4 | | 1.0 | mg/L | 6010B |
| Magnesium | 32 | | 1.0 | mg/L | 6010B |
| Sodium | 64 | B | 10 | mg/L | 6010B |
| 600-3434-6 WM-12 | | | | | |
| Chloride | 110 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.4 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.89 | | 0.30 | mg/L | 300.0 |
| Sulfate | 79 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 130 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 130 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 460 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 61 | B | 1.0 | mg/L | 6010B |
| Potassium | 4.5 | | 1.0 | mg/L | 6010B |
| Magnesium | 20 | | 1.0 | mg/L | 6010B |
| Sodium | 52 | B | 10 | mg/L | 6010B |

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Lab Sample ID Analyte | Client Sample ID MW-13 | Result / Qualifier | Reporting Limit | Units | Method |
|---|---------------------------|--------------------|--------------------|-------|----------|
| 600-3434-7 | | | | | |
| Chloride | 970 | | 40 | mg/L | 300.0 |
| Nitrate as N | 1.8 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.98 | | 0.30 | mg/L | 300.0 |
| Sulfate | 280 | | 50 | mg/L | 300.0 |
| Alkalinity | 180 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 180 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 2400 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 240 | B | 1.0 | mg/L | 6010B |
| Potassium | 17 | | 1.0 | mg/L | 6010B |
| Magnesium | 96 | | 1.0 | mg/L | 6010B |
| Sodium | 370 | B | 20 | mg/L | 6010B |

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Description | Lab Location | Method | Preparation Method |
|-------------------------------|--------------|-------------|--------------------|
| Matrix Water | | | |
| Metals (ICP) | TAL HOU | SW846 6010B | |
| Sample Filtration | TAL HOU | | FILTRATION |
| Preparation, Total Metals | TAL HOU | | SW846 3010A |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Alkalinity | TAL HOU | SM SM 2320B | |
| Solids, Total Dissolved (TDS) | TAL HOU | SM SM 2540C | |

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.

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

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

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Method | Analyst | Analyst ID |
|-------------|---------------------|------------|
| SW846 6010B | Patel, Silen R | SRP |
| MCAWW 300.0 | Puranik, Surendra U | SUP |
| SM SM 2320B | Gregory, Sharita N | SNG |
| SM SM 2540C | Watson, Don A | DAW |

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 600-3434-1 | MW-3 | Water | 11/06/2008 1345 | 11/07/2008 0856 |
| 600-3434-2 | MW-5 | Water | 11/06/2008 1140 | 11/07/2008 0856 |
| 600-3434-3 | MW-5A | Water | 11/06/2008 1210 | 11/07/2008 0856 |
| 600-3434-4 | MW-6 | Water | 11/06/2008 1055 | 11/07/2008 0856 |
| 600-3434-5 | MW-10 | Water | 11/06/2008 1259 | 11/07/2008 0856 |
| 600-3434-6 | WM-12 | Water | 11/06/2008 1430 | 11/07/2008 0856 |
| 600-3434-7 | MW-13 | Water | 11/06/2008 1515 | 11/07/2008 0856 |

SAMPLE RESULTS

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

Job Number: 600-3434-1

Client Sample ID: MW-3 **Date Sampled:** 11/06/2008 1345
Lab Sample ID: 600-3434-1 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1020 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 50 | B | mg/L | 0.022 | 1.0 |
| Potassium | 4.0 | | mg/L | 0.13 | 1.0 |
| Magnesium | 17 | | mg/L | 0.019 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1409 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 48 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1611 | |
| Chloride | 36 | | mg/L | 0.10 | 0.40 |
| Nitrate as N | 1.4 | | mg/L | 0.050 | 0.20 |
| Fluoride | 1.1 | | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1631 | |
| Sulfate | 97 | | mg/L | 2.0 | 5.0 |

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

Job Number: 600-3434-1

Client Sample ID: MW-3 **Date Sampled:** 11/06/2008 1345
Lab Sample ID: 600-3434-1 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 430 | mg/L | 10 | 10 | 1.0 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-5 **Date Sampled:** 11/06/2008 1140
Lab Sample ID: 600-3434-2 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1023 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 660 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 35 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 310 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1446 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 1600 | B | mg/L | 2.0 | 100 | 100 |
| Method: 300.0 | | | | Date Analyzed: | 11/07/2008 2352 | |
| Nitrate as N | 0.32 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.78 | J | mg/L | 0.50 | 1.5 | 5.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/08/2008 0032 | |
| Chloride | 4900 | | mg/L | 10 | 40 | 100 |
| Sulfate | 540 | | mg/L | 20 | 50 | 100 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-5 **Date Sampled:** 11/06/2008 1140
Lab Sample ID: 600-3434-2 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 160 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 160 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 9700 | mg/L | 40 | 40 | 1.0 |

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Job Number: 600-3434-1

Client Sample ID: MW-5A **Date Sampled:** 11/06/2008 1210
Lab Sample ID: 600-3434-3 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1027 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 76 | B | mg/L | 0.022 | 1.0 |
| Potassium | 3.4 | | mg/L | 0.13 | 1.0 |
| Magnesium | 15 | | mg/L | 0.019 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1449 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 43 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1651 | |
| Nitrate as N | 1.3 | | mg/L | 0.050 | 0.20 |
| Fluoride | 0.70 | | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1711 | |
| Chloride | 53 | | mg/L | 1.0 | 4.0 |
| Sulfate | 72 | | mg/L | 2.0 | 5.0 |

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Job Number: 600-3434-1

Client Sample ID: MW-5A **Date Sampled:** 11/06/2008 1210
Lab Sample ID: 600-3434-3 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 350 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 350 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 450 | mg/L | 10 | 10 | 1.0 |

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Job Number: 600-3434-1

Client Sample ID: MW-6 **Date Sampled:** 11/06/2008 1055
Lab Sample ID: 600-3434-4 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1031 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 67 | B | mg/L | 0.022 | 1.0 |
| Potassium | 4.3 | | mg/L | 0.13 | 1.0 |
| Magnesium | 21 | | mg/L | 0.019 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/13/2008 1453 | |
| Prep Method: 3010A | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 53 | B | mg/L | 0.20 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1731 | |
| Nitrate as N | 1.2 | | mg/L | 0.050 | 0.20 |
| Fluoride | 1.2 | | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/07/2008 1831 | |
| Chloride | 84 | | mg/L | 1.0 | 4.0 |
| Sulfate | 95 | | mg/L | 2.0 | 5.0 |

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Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-6 **Date Sampled:** 11/06/2008 1055
Lab Sample ID: 600-3434-4 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 220 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 220 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 490 | mg/L | 10 | 10 | 1.0 |

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Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-10 **Date Sampled:** 11/06/2008 1259
Lab Sample ID: 600-3434-5 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1034 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 110 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 5.4 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 32 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1457 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 64 | B | mg/L | 0.20 | 10 | 10 |
| Method: 300.0 | | | | Date Analyzed: | 11/08/2008 0052 | |
| Nitrate as N | 1.3 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 1.5 | | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/08/2008 0112 | |
| Chloride | 210 | | mg/L | 1.0 | 4.0 | 10 |
| Sulfate | 89 | | mg/L | 2.0 | 5.0 | 10 |

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Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-10 **Date Sampled:** 11/06/2008 1259
Lab Sample ID: 600-3434-5 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 150 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 730 | mg/L | 10 | 10 | 1.0 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: WM-12 **Date Sampled:** 11/06/2008 1430
Lab Sample ID: 600-3434-6 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1038 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 61 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 4.5 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 20 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1500 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 52 | B | mg/L | 0.20 | 10 | 10 |
| Method: 300.0 | | | | Date Analyzed: | 11/07/2008 1931 | |
| Nitrate as N | 1.4 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.89 | | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/07/2008 1951 | |
| Chloride | 110 | | mg/L | 1.0 | 4.0 | 10 |
| Sulfate | 79 | | mg/L | 2.0 | 5.0 | 10 |

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

Job Number: 600-3434-1

Client Sample ID: WM-12 **Date Sampled:** 11/06/2008 1430
Lab Sample ID: 600-3434-6 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 130 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 130 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 460 | mg/L | 10 | 10 | 1.0 |

Mr. Todd Wells
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Midland, TX 79703

Job Number: 600-3434-1

Client Sample ID: MW-13 **Date Sampled:** 11/06/2008 1515
Lab Sample ID: 600-3434-7 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1042 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Calcium | 240 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 17 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 96 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/13/2008 1504 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/12/2008 1640 | |
| Sodium | 370 | B | mg/L | 0.40 | 20 | 20 |
| Method: 300.0 | | | | Date Analyzed: | 11/07/2008 2011 | |
| Nitrate as N | 1.8 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.98 | | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/07/2008 2051 | |
| Chloride | 970 | | mg/L | 10 | 40 | 100 |
| Sulfate | 280 | | mg/L | 20 | 50 | 100 |

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

Job Number: 600-3434-1

Client Sample ID: MW-13 **Date Sampled:** 11/06/2008 1515
Lab Sample ID: 600-3434-7 **Date Received:** 11/07/2008 0856
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/12/2008 1730 | |
| Alkalinity | 180 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 180 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/07/2008 1500 | |
| Total Dissolved Solids | 2400 | mg/L | 10 | 10 | 1.0 |

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

| Lab Section | Qualifier | Description |
|--------------------|------------------|--|
| Metals | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| General Chemistry | | |
| | F | Duplicate RPD exceeds the control limit |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

QUALITY CONTROL RESULTS

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|---------------------------------|---------------------------|--------|---------------|--------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| Metals | | | | | | |
| Prep Batch: 600-5626 | | | | | | |
| LCS 600-5626/2-A | Lab Control Spike | T | Water | 3010A | | |
| MB 600-5626/1-A | Method Blank | T | Water | 3010A | | |
| LB 600-5616/1-B | TCLP SPLPE Leachate Blank | D | Water | 3010A | | |
| 600-3434-1 | MW-3 | D | Water | 3010A | | |
| 600-3434-2 | MW-5 | D | Water | 3010A | | |
| 600-3434-3 | MW-5A | D | Water | 3010A | | |
| 600-3434-4 | MW-6 | D | Water | 3010A | | |
| 600-3434-5 | MW-10 | D | Water | 3010A | | |
| 600-3434-6 | MW-12 | D | Water | 3010A | | |
| 600-3434-7 | MW-13 | D | Water | 3010A | | |
| Analysis Batch: 600-5669 | | | | | | |
| LCS 600-5626/2-A | Lab Control Spike | T | Water | 6010B | 600-5626 | |
| MB 600-5626/1-A | Method Blank | T | Water | 6010B | 600-5626 | |
| LB 600-5616/1-B | TCLP SPLPE Leachate Blank | D | Water | 6010B | 600-5626 | |
| 600-3434-1 | MW-3 | D | Water | 6010B | 600-5626 | |
| 600-3434-2 | MW-5 | D | Water | 6010B | 600-5626 | |
| 600-3434-3 | MW-5A | D | Water | 6010B | 600-5626 | |
| 600-3434-4 | MW-6 | D | Water | 6010B | 600-5626 | |
| 600-3434-5 | MW-10 | D | Water | 6010B | 600-5626 | |
| 600-3434-6 | MW-12 | D | Water | 6010B | 600-5626 | |
| 600-3434-7 | MW-13 | D | Water | 6010B | 600-5626 | |

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|--------------------------------|-------------------|--------|---------------|----------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| General Chemistry | | | | | | |
| Analysis Batch:600-5439 | | | | | | |
| LCS 600-5439/24 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5439/25 | Method Blank | T | Water | 300.0 | | |
| 600-3434-1 | MW-3 | T | Water | 300.0 | | |
| 600-3434-2 | MW-5 | T | Water | 300.0 | | |
| 600-3434-3 | MW-5A | T | Water | 300.0 | | |
| 600-3434-4 | MW-6 | T | Water | 300.0 | | |
| 600-3434-4DU | Duplicate | T | Water | 300.0 | | |
| 600-3434-4MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3434-5 | MW-10 | T | Water | 300.0 | | |
| 600-3434-6 | WM-12 | T | Water | 300.0 | | |
| 600-3434-7 | MW-13 | T | Water | 300.0 | | |
| Analysis Batch:600-5440 | | | | | | |
| LCS 600-5440/4 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5440/3 | Method Blank | T | Water | 300.0 | | |
| 600-3434-1 | MW-3 | T | Water | 300.0 | | |
| 600-3434-2 | MW-5 | T | Water | 300.0 | | |
| 600-3434-3 | MW-5A | T | Water | 300.0 | | |
| 600-3434-4 | MW-6 | T | Water | 300.0 | | |
| 600-3434-4DU | Duplicate | T | Water | 300.0 | | |
| 600-3434-4MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3434-5 | MW-10 | T | Water | 300.0 | | |
| 600-3434-6 | WM-12 | T | Water | 300.0 | | |
| 600-3434-7 | MW-13 | T | Water | 300.0 | | |
| Analysis Batch:600-5446 | | | | | | |
| LCS 600-5446/2 | Lab Control Spike | T | Water | SM 2540C | | |
| MB 600-5446/1 | Method Blank | T | Water | SM 2540C | | |
| 600-3434-1 | MW-3 | T | Water | SM 2540C | | |
| 600-3434-2 | MW-5 | T | Water | SM 2540C | | |
| 600-3434-3 | MW-5A | T | Water | SM 2540C | | |
| 600-3434-3DU | Duplicate | T | Water | SM 2540C | | |
| 600-3434-4 | MW-6 | T | Water | SM 2540C | | |
| 600-3434-5 | MW-10 | T | Water | SM 2540C | | |
| 600-3434-6 | WM-12 | T | Water | SM 2540C | | |
| 600-3434-7 | MW-13 | T | Water | SM 2540C | | |

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | Prep Batch | | |
|--------------------------------|-------------------|--------|---------------|----------|------------|--|--|
| | | Basis | Client Matrix | Method | | | |
| General Chemistry | | | | | | | |
| Analysis Batch:600-5663 | | | | | | | |
| LCS 600-5663/2 | Lab Control Spike | T | Water | SM 2320B | | | |
| MB 600-5663/1 | Method Blank | T | Water | SM 2320B | | | |
| 600-3434-1 | MW-3 | T | Water | SM 2320B | | | |
| 600-3434-2 | MW-5 | T | Water | SM 2320B | | | |
| 600-3434-3 | MW-5A | T | Water | SM 2320B | | | |
| 600-3434-4 | MW-6 | T | Water | SM 2320B | | | |
| 600-3434-5 | MW-10 | T | Water | SM 2320B | | | |
| 600-3434-6 | MW-12 | T | Water | SM 2320B | | | |
| 600-3434-7 | MW-13 | T | Water | SM 2320B | | | |

Report Basis

T = Total

Quality Control Results

Surrogate Recovery Report

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Method Blank - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-5626/1-A Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 0848
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Calcium | 0.022 | U | 0.022 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |
| Sodium | 0.020 | U | 0.020 | 1.0 |

TCLP SPLPE Leachate Blank - Batch: 600-5626

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: LB 600-5616/1-B Analysis Batch: 600-5669
Client Matrix: Water Prep Batch: 600-5626
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 0910
Date Prepared: 11/12/2008 1640

Instrument ID: TJA ICP 61E
Lab File ID: T111308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Calcium | 0.031 | J | 0.022 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |
| Sodium | 0.067 | J | 0.020 | 1.0 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Lab Control Spike - Batch: 600-5626

Method: 6010B

Preparation: 3010A

| | | | | | |
|----------------|------------------|-----------------|----------|------------------------|-------------|
| Lab Sample ID: | LCS 600-5626/2-A | Analysis Batch: | 600-5669 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-5626 | Lab File ID: | T111308 |
| Dilution: | 1.0 | Units: | mg/L | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/13/2008 0852 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/12/2008 1640 | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| Calcium | 10.0 | 10.3 | 103 | 80 - 120 | |
| Potassium | 10.0 | 10.1 | 101 | 80 - 120 | |
| Magnesium | 10.0 | 10.2 | 102 | 80 - 120 | |
| Sodium | 10.0 | 10.0 | 100 | 80 - 120 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Method Blank - Batch: 600-5439

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5439/25 Analysis Batch: 600-5439
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1531
Date Prepared: N/A

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 |
| Fluoride | 0.10 | U | 0.10 | 0.30 |
| Sulfate | 0.20 | U | 0.20 | 0.50 |

Lab Control Spike - Batch: 600-5439

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5439/24 Analysis Batch: 600-5439
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1551
Date Prepared: N/A

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 | 19.4 | 97 | 90 - 110 | |
| Fluoride | 10.0 | 10.6 | 106 | 90 - 110 | |
| Sulfate | 20.0 | 19.0 | 95 | 90 - 110 | |

Matrix Spike - Batch: 600-5439

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3434-4 Analysis Batch: 600-5439
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/07/2008 1911
Date Prepared: N/A

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 | 84 | 100 | 177 | 93 | 90 - 110 | |
| Fluoride | 1.0 | U | 20.0 | 22.2 | 111 | 90 - 110 |
| Sulfate | 95 | 100 | 306 | 211 | 90 - 110 | F |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Duplicate - Batch: 600-5439

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|----------|
| Lab Sample ID: | 600-3434-4 | Analysis Batch: | 600-5439 | Instrument ID: | ICS20000 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 10 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/07/2008 1851 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|----------|--------------------|--------|------|-------|------|
| Chloride | 84 | 84.2 | 0 | 20 | |
| Fluoride | 1.0 | U | 1.0 | NC | 20 |
| Sulfate | 95 | | 94.9 | 0 | 20 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Method Blank - Batch: 600-5440

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5440/3 Analysis Batch: 600-5440
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1531
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|--------------|--------|------|-------|------|
| Nitrate as N | 0.050 | U | 0.050 | 0.20 |

Lab Control Spike - Batch: 600-5440

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5440/4 Analysis Batch: 600-5440
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1551
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------|--------|--------|----------|------|
| Nitrate as N | 10.0 | 9.94 | 99 | 90 - 110 | |

Matrix Spike - Batch: 600-5440

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3434-4 Analysis Batch: 600-5440
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/07/2008 1911
Date Prepared: N/A

Instrument ID: No Equipment Assigned
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 |
|--------------|--------------------|--------------|--------|--------|----------|------|
| Nitrate as N | 1.2 | 20.0 | 20.7 | 98 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Duplicate - Batch: 600-5440**Method: 300.0****Preparation: N/A**

Lab Sample ID: 600-3434-4

Analysis Batch: 600-5440

Instrument ID: No Equipment Assigned

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 10

Units: mg/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/07/2008 1851

Final Weight/Volume: 5 mL

Date Prepared: N/A

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|--------------|--------------------|--------|-----|-------|------|
| Nitrate as N | 1.2 | 0.920 | 27 | 20 | J F |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Method Blank - Batch: 600-5663

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 600-5663/1 Analysis Batch: 600-5663
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/12/2008 1730
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL | RL |
|---|--------|------|-----|-----|
| Alkalinity | 2.5 | U | 2.5 | 2.5 |
| Bicarbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Carbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Hydroxide Alkalinity | 2.5 | U | 2.5 | 2.5 |

Lab Control Spike - Batch: 600-5663

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 600-5663/2 Analysis Batch: 600-5663
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/12/2008 1730
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------|--------------|--------|--------|----------|------|
| Alkalinity | 1000 | 951 | 95 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3434-1

Method Blank - Batch: 600-5446

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 600-5446/1 Analysis Batch: 600-5446
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1500
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Result | Qual | RL | RL |
|------------------------|--------|------|----|----|
| Total Dissolved Solids | 10 | U | 10 | 10 |

Lab Control Spike - Batch: 600-5446

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 600-5446/2 Analysis Batch: 600-5446
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1500
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|--------|----------|------|
| Total Dissolved Solids | 1800 | 1750 | 97 | 90 - 110 | |

Duplicate - Batch: 600-5446

Method: SM 2540C

Preparation: N/A

Lab Sample ID: 600-3434-3 Analysis Batch: 600-5446
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/07/2008 1500
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|------------------------|--------------------|--------|-----|-------|------|
| Total Dissolved Solids | 450 | 453 | 0 | 10 | |

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: 600-3434-1

Login Number: 3434

List Source: TestAmerica Houston

Creator: Clarke, Michael (Mike) C

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 | 5.6 |
| 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 | |

ANALYTICAL REPORT

Job Number: 600-3706-1

Job Description: Cooper Jal NM

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
12/2/2008 9:13 AM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
12/02/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

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: 600-3706-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3706-1 MW-4 111208R | | | | | |
| Chloride | 12000 | | 400 | mg/L | 300.0 |
| Nitrate as N | 0.33 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.2 | J | 3.0 | mg/L | 300.0 |
| Sulfate | 1300 | | 50 | mg/L | 300.0 |
| Alkalinity | 200 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 200 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 22000 | | 100 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 1500 | B | 20 | mg/L | 6010B |
| Potassium | 82 | | 1.0 | mg/L | 6010B |
| Magnesium | 840 | | 20 | mg/L | 6010B |
| Sodium | 4800 | B | 500 | mg/L | 6010B |
| 600-3706-2 MW-4A 111208R | | | | | |
| Chloride | 650 | | 40 | mg/L | 300.0 |
| Nitrate as N | 2.2 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.32 | | 0.30 | mg/L | 300.0 |
| Sulfate | 170 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 640 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 640 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 1700 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 160 | B | 1.0 | mg/L | 6010B |
| Potassium | 9.9 | | 1.0 | mg/L | 6010B |
| Magnesium | 37 | | 1.0 | mg/L | 6010B |
| Sodium | 290 | B | 20 | mg/L | 6010B |
| 600-3706-3 MW-7 111208R | | | | | |
| Chloride | 650 | | 40 | mg/L | 300.0 |
| Nitrate as N | 1.2 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.84 | | 0.30 | mg/L | 300.0 |
| Sulfate | 140 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 110 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 110 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 1600 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 210 | B | 1.0 | mg/L | 6010B |
| Potassium | 12 | | 1.0 | mg/L | 6010B |
| Magnesium | 76 | | 1.0 | mg/L | 6010B |
| Sodium | 120 | B | 20 | mg/L | 6010B |

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|------------------|--------------------|-----------------|-------|----------|
| 600-3706-4 MW-8 111208R | | | | | |
| Chloride | 39 | | 0.40 | mg/L | 300.0 |
| Nitrate as N | 1.5 | | 0.20 | mg/L | 300.0 |
| Fluoride | 1.4 | | 0.30 | mg/L | 300.0 |
| Sulfate | 97 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 140 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 140 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 350 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 52 | B | 20 | mg/L | 6010B |
| Magnesium | 17 | J | 20 | mg/L | 6010B |
| Sodium | 46 | B | 20 | mg/L | 6010B |
| 600-3706-5 RW-1 111208R | | | | | |
| Chloride | 370 | | 4.0 | mg/L | 300.0 |
| Nitrate as N | 1.9 | | 0.20 | mg/L | 300.0 |
| Fluoride | 0.82 | | 0.30 | mg/L | 300.0 |
| Sulfate | 97 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 210 | | 5.0 | mg/L | SM 2320B |
| Bicarbonate Alkalinity as CaCO ₃ | 210 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 920 | | 10 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 66 | B | 20 | mg/L | 6010B |
| Potassium | 5.0 | J | 20 | mg/L | 6010B |
| Magnesium | 34 | | 20 | mg/L | 6010B |
| Sodium | 190 | B | 20 | mg/L | 6010B |
| 600-3706-6 RW-2 111208R | | | | | |
| Chloride | 2500 | | 40 | mg/L | 300.0 |
| Nitrate as N | 0.24 | | 0.20 | mg/L | 300.0 |
| Sulfate | 250 | | 5.0 | mg/L | 300.0 |
| Alkalinity | 390 | | 5.0 | mg/L | SM 2320B |
| Carbonate Alkalinity as CaCO ₃ | 150 | | 5.0 | mg/L | SM 2320B |
| Hydroxide Alkalinity | 240 | | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | 4800 | | 20 | mg/L | SM 2540C |
| <i>Dissolved</i> | | | | | |
| Calcium | 1200 | B | 20 | mg/L | 6010B |
| Potassium | 6.0 | J | 20 | mg/L | 6010B |
| Sodium | 400 | B | 20 | mg/L | 6010B |

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

| Description | Lab Location | Method | Preparation Method |
|-------------------------------|--------------|-------------|--------------------|
| Matrix Water | | | |
| Metals (ICP) | TAL HOU | SW846 6010B | |
| Sample Filtration | TAL HOU | | FILTRATION |
| Preparation, Total Metals | TAL HOU | | SW846 3010A |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Anions, Ion Chromatography | TAL HOU | MCAWW 300.0 | |
| Alkalinity | TAL HOU | SM SM 2320B | |
| Solids, Total Dissolved (TDS) | TAL HOU | SM SM 2540C | |

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.

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

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

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

| Method | Analyst | Analyst ID |
|-------------|---------------------|------------|
| SW846 6010B | Patel, Silen R | SRP |
| SW846 6010B | Richter, Travis W | TWR |
| MCAWW 300.0 | Puranik, Surendra U | SUP |
| SM SM 2320B | Gregory, Sharita N | SNG |
| SM SM 2540C | Watson, Don A | DAW |

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 600-3706-1 | MW-4 111208R | Water | 11/12/2008 1300 | 11/13/2008 0905 |
| 600-3706-2 | MW-4A 111208R | Water | 11/12/2008 1325 | 11/13/2008 0905 |
| 600-3706-3 | MW-7 111208R | Water | 11/12/2008 1500 | 11/13/2008 0905 |
| 600-3706-4 | MW-8 111208R | Water | 11/12/2008 1130 | 11/13/2008 0905 |
| 600-3706-5 | RW-1 111208R | Water | 11/12/2008 1405 | 11/13/2008 0905 |
| 600-3706-6 | RW-2 111208R | Water | 11/12/2008 1215 | 11/13/2008 0905 |

SAMPLE RESULTS

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

Job Number: 600-3706-1

Client Sample ID: MW-4 111208R **Date Sampled:** 11/12/2008 1300
Lab Sample ID: 600-3706-1 **Date Received:** 11/13/2008 0905
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|-------------------------|------------------|---|----------------|-----------------|------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/25/2008 1613 | | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | | |
| Potassium | 82 | | mg/L | 0.13 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/26/2008 1115 | | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | | |
| Calcium | 1500 | B | mg/L | 0.44 | 20 | 20 |
| Magnesium | 840 | | mg/L | 0.38 | 20 | 20 |
| Method: Dissolved-6010B | | | Date Analyzed: | 11/26/2008 1157 | | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | | |
| Sodium | 4800 | B | mg/L | 10 | 500 | 500 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1400 | | |
| Nitrate as N | 0.33 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 1.2 | J | mg/L | 1.0 | 3.0 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1420 | | |
| Sulfate | 1300 | | mg/L | 20 | 50 | 100 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1440 | | |
| Chloride | 12000 | | mg/L | 100 | 400 | 1000 |

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

Job Number: 600-3706-1

Client Sample ID: MW-4 111208R
Lab Sample ID: 600-3706-1

Date Sampled: 11/12/2008 1300
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 200 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 200 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 22000 | mg/L | 100 | 100 | 1.0 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-4A 111208R
Lab Sample ID: 600-3706-2

Date Sampled: 11/12/2008 1325
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/25/2008 1628 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/25/2008 0948 | |
| Calcium | 160 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 9.9 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 37 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/26/2008 1131 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/25/2008 0948 | |
| Sodium | 290 | B | mg/L | 0.40 | 20 | 20 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1500 | |
| Nitrate as N | 2.2 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.32 | | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1520 | |
| Sulfate | 170 | | mg/L | 2.0 | 5.0 | 10 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1540 | |
| Chloride | 650 | | mg/L | 10 | 40 | 100 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-4A 111208R
Lab Sample ID: 600-3706-2

Date Sampled: 11/12/2008 1325
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 640 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 640 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 1700 | mg/L | 10 | 10 | 1.0 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-7 111208R **Date Sampled:** 11/12/2008 1500
Lab Sample ID: 600-3706-3 **Date Received:** 11/13/2008 0905
 Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/25/2008 1631 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/25/2008 0948 | |
| Calcium | 210 | B | mg/L | 0.022 | 1.0 | 1.0 |
| Potassium | 12 | | mg/L | 0.13 | 1.0 | 1.0 |
| Magnesium | 76 | | mg/L | 0.019 | 1.0 | 1.0 |
| Method: Dissolved-6010B | | | | Date Analyzed: | 11/26/2008 1135 | |
| Prep Method: 3010A | | | | Date Prepared: | 11/25/2008 0948 | |
| Sodium | 120 | B | mg/L | 0.40 | 20 | 20 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1640 | |
| Nitrate as N | 1.2 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.84 | | mg/L | 0.10 | 0.30 | 1.0 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1700 | |
| Sulfate | 140 | | mg/L | 2.0 | 5.0 | 10 |
| Method: 300.0 | | | | Date Analyzed: | 11/13/2008 1720 | |
| Chloride | 650 | | mg/L | 10 | 40 | 100 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-7 111208R
Lab Sample ID: 600-3706-3

Date Sampled: 11/12/2008 1500
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 110 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 110 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 1600 | mg/L | 10 | 10 | 1.0 |

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2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-8 111208R **Date Sampled:** 11/12/2008 1130
Lab Sample ID: 600-3706-4 **Date Received:** 11/13/2008 0905
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/26/2008 1139 | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | |
| Calcium | 52 | B | mg/L | 0.44 | 20 |
| Potassium | 2.6 | U | mg/L | 2.6 | 20 |
| Magnesium | 17 | J | mg/L | 0.38 | 20 |
| Sodium | 46 | B | mg/L | 0.40 | 20 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1740 | |
| Chloride | 39 | | mg/L | 0.10 | 0.40 |
| Nitrate as N | 1.5 | | mg/L | 0.050 | 0.20 |
| Fluoride | 1.4 | | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1800 | |
| Sulfate | 97 | | mg/L | 2.0 | 5.0 |
| | | | | | 10 |

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Midland, TX 79703

Job Number: 600-3706-1

Client Sample ID: MW-8 111208R
Lab Sample ID: 600-3706-4

Date Sampled: 11/12/2008 1130
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 140 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 140 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 350 | mg/L | 10 | 10 | 1.0 |

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Job Number: 600-3706-1

Client Sample ID: RW-1 111208R
Lab Sample ID: 600-3706-5

Date Sampled: 11/12/2008 1405
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-------------------------|------------------|------|----------------|-----------------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/26/2008 1142 | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | |
| Calcium | 66 | B | mg/L | 0.44 | 20 |
| Potassium | 5.0 | J | mg/L | 2.6 | 20 |
| Magnesium | 34 | | mg/L | 0.38 | 20 |
| Sodium | 190 | B | mg/L | 0.40 | 20 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1900 | |
| Fluoride | 0.82 | | mg/L | 0.10 | 0.30 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 1920 | |
| Chloride | 370 | | mg/L | 1.0 | 4.0 |
| Nitrate as N | 1.9 | | mg/L | 0.050 | 0.20 |
| Sulfate | 97 | | mg/L | 2.0 | 5.0 |

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Job Number: 600-3706-1

Client Sample ID: RW-1 111208R
Lab Sample ID: 600-3706-5

Date Sampled: 11/12/2008 1405
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 210 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 210 | mg/L | 5.0 | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Hydroxide Alkalinity | 5.0 | U | 5.0 | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 920 | mg/L | 10 | 10 | 1.0 |

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

Job Number: 600-3706-1

Client Sample ID: RW-2 111208R
Lab Sample ID: 600-3706-6

Date Sampled: 11/12/2008 1215
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | | Unit | MDL | RL | Dilution |
|--------------------------------|------------------|---|----------------|-----------------|------|----------|
| Method: Dissolved-6010B | | | Date Analyzed: | 11/26/2008 1146 | | |
| Prep Method: 3010A | | | Date Prepared: | 11/25/2008 0948 | | |
| Calcium | 1200 | B | mg/L | 0.44 | 20 | 20 |
| Potassium | 6.0 | J | mg/L | 2.6 | 20 | 20 |
| Magnesium | 0.38 | U | mg/L | 0.38 | 20 | 20 |
| Sodium | 400 | B | mg/L | 0.40 | 20 | 20 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 2020 | | |
| Nitrate as N | 0.24 | | mg/L | 0.050 | 0.20 | 1.0 |
| Fluoride | 0.50 | U | mg/L | 0.50 | 1.5 | 5.0 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 2040 | | |
| Sulfate | 250 | | mg/L | 2.0 | 5.0 | 10 |
| Method: 300.0 | | | Date Analyzed: | 11/13/2008 2100 | | |
| Chloride | 2500 | | mg/L | 10 | 40 | 100 |

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

Job Number: 600-3706-1

Client Sample ID: RW-2 111208R
Lab Sample ID: 600-3706-6

Date Sampled: 11/12/2008 1215
Date Received: 11/13/2008 0905
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | RL | RL | Dilution |
|---|------------------|------|----------------|-----------------|----------|
| Method: SM 2320B | | | Date Analyzed: | 11/20/2008 1040 | |
| Alkalinity | 390 | mg/L | 5.0 | 5.0 | 1.0 |
| Bicarbonate Alkalinity as CaCO ₃ | 5.0 | U | mg/L | 5.0 | 1.0 |
| Carbonate Alkalinity as CaCO ₃ | 150 | | mg/L | 5.0 | 1.0 |
| Hydroxide Alkalinity | 240 | | mg/L | 5.0 | 1.0 |
| Method: SM 2540C | | | Date Analyzed: | 11/15/2008 1045 | |
| Total Dissolved Solids | 4800 | mg/L | 20 | 20 | 1.0 |

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

| Lab Section | Qualifier | Description |
|-------------------|-----------|---|
| Metals | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| General Chemistry | | |
| | F | Duplicate RPD exceeds the control limit |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

QUALITY CONTROL RESULTS

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|--------------------------------|---------------------------|--------|---------------|--------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| Metals | | | | | | |
| Prep Batch: 600-6260 | | | | | | |
| LB 600-6260/1-C | TCLP SPLPE Leachate Blank | D | Water | | | |
| Prep Batch: 600-6333 | | | | | | |
| LCS 600-6333/2-A | Lab Control Spike | T | Water | 3010A | | |
| MB 600-6329/1-B | Method Blank | D | Water | 3010A | | |
| MB 600-6333/1-A | Method Blank | T | Water | 3010A | | |
| LB 600-6260/1-C | TCLP SPLPE Leachate Blank | D | Water | 3010A | 600-6260 | |
| 600-3706-1 | MW-4 111208R | D | Water | 3010A | | |
| 600-3706-1DU | Duplicate | D | Water | 3010A | | |
| 600-3706-1MS | Matrix Spike | D | Water | 3010A | | |
| 600-3706-1MSD | Matrix Spike Duplicate | D | Water | 3010A | | |
| 600-3706-2 | MW-4A 111208R | D | Water | 3010A | | |
| 600-3706-3 | MW-7 111208R | D | Water | 3010A | | |
| 600-3706-4 | MW-8 111208R | D | Water | 3010A | | |
| 600-3706-5 | RW-1 111208R | D | Water | 3010A | | |
| 600-3706-6 | RW-2 111208R | D | Water | 3010A | | |
| Analysis Batch:600-6373 | | | | | | |
| LCS 600-6333/2-A | Lab Control Spike | T | Water | 6010B | 600-6333 | |
| MB 600-6329/1-B | Method Blank | D | Water | 6010B | 600-6333 | |
| MB 600-6333/1-A | Method Blank | T | Water | 6010B | 600-6333 | |
| LB 600-6260/1-C | TCLP SPLPE Leachate Blank | D | Water | 6010B | 600-6333 | |
| 600-3706-1 | MW-4 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-1DU | Duplicate | D | Water | 6010B | 600-6333 | |
| 600-3706-1MS | Matrix Spike | D | Water | 6010B | 600-6333 | |
| 600-3706-1MSD | Matrix Spike Duplicate | D | Water | 6010B | 600-6333 | |
| 600-3706-2 | MW-4A 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-3 | MW-7 111208R | D | Water | 6010B | 600-6333 | |
| Analysis Batch:600-6419 | | | | | | |
| 600-3706-1 | MW-4 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-1DU | Duplicate | D | Water | 6010B | 600-6333 | |
| 600-3706-1MS | Matrix Spike | D | Water | 6010B | 600-6333 | |
| 600-3706-1MSD | Matrix Spike Duplicate | D | Water | 6010B | 600-6333 | |
| 600-3706-2 | MW-4A 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-3 | MW-7 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-4 | MW-8 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-5 | RW-1 111208R | D | Water | 6010B | 600-6333 | |
| 600-3706-6 | RW-2 111208R | D | Water | 6010B | 600-6333 | |

Report Basis

D = Dissolved

T = Total

TestAmerica Houston

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report | | | | |
|--------------------------------|-------------------|--------|---------------|----------|------------|--|
| | | Basis | Client Matrix | Method | Prep Batch | |
| General Chemistry | | | | | | |
| Analysis Batch:600-5732 | | | | | | |
| LCS 600-5732/43 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5732/3 | Method Blank | T | Water | 300.0 | | |
| 600-3706-1 | MW-4 111208R | T | Water | 300.0 | | |
| 600-3706-2 | MW-4A 111208R | T | Water | 300.0 | | |
| 600-3706-3 | MW-7 111208R | T | Water | 300.0 | | |
| 600-3706-4 | MW-8 111208R | T | Water | 300.0 | | |
| 600-3706-4DU | Duplicate | T | Water | 300.0 | | |
| 600-3706-4MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3706-5 | RW-1 111208R | T | Water | 300.0 | | |
| 600-3706-6 | RW-2 111208R | T | Water | 300.0 | | |
| Analysis Batch:600-5745 | | | | | | |
| LCS 600-5745/4 | Lab Control Spike | T | Water | 300.0 | | |
| MB 600-5745/3 | Method Blank | T | Water | 300.0 | | |
| 600-3706-1 | MW-4 111208R | T | Water | 300.0 | | |
| 600-3706-2 | MW-4A 111208R | T | Water | 300.0 | | |
| 600-3706-3 | MW-7 111208R | T | Water | 300.0 | | |
| 600-3706-4 | MW-8 111208R | T | Water | 300.0 | | |
| 600-3706-4DU | Duplicate | T | Water | 300.0 | | |
| 600-3706-4MS | Matrix Spike | T | Water | 300.0 | | |
| 600-3706-5 | RW-1 111208R | T | Water | 300.0 | | |
| 600-3706-6 | RW-2 111208R | T | Water | 300.0 | | |
| Analysis Batch:600-5880 | | | | | | |
| LCS 600-5880/2 | Lab Control Spike | T | Water | SM 2540C | | |
| MB 600-5880/1 | Method Blank | T | Water | SM 2540C | | |
| 600-3706-1 | MW-4 111208R | T | Water | SM 2540C | | |
| 600-3706-2 | MW-4A 111208R | T | Water | SM 2540C | | |
| 600-3706-3 | MW-7 111208R | T | Water | SM 2540C | | |
| 600-3706-4 | MW-8 111208R | T | Water | SM 2540C | | |
| 600-3706-5 | RW-1 111208R | T | Water | SM 2540C | | |
| 600-3706-6 | RW-2 111208R | T | Water | SM 2540C | | |
| 600-3706-6DU | Duplicate | T | Water | SM 2540C | | |
| Analysis Batch:600-6104 | | | | | | |
| LCS 600-6104/2 | Lab Control Spike | T | Water | SM 2320B | | |
| MB 600-6104/1 | Method Blank | T | Water | SM 2320B | | |
| 600-3706-1 | MW-4 111208R | T | Water | SM 2320B | | |
| 600-3706-2 | MW-4A 111208R | T | Water | SM 2320B | | |
| 600-3706-3 | MW-7 111208R | T | Water | SM 2320B | | |
| 600-3706-4 | MW-8 111208R | T | Water | SM 2320B | | |
| 600-3706-5 | RW-1 111208R | T | Water | SM 2320B | | |
| 600-3706-6 | RW-2 111208R | T | Water | SM 2320B | | |

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------|------------------|--------------|---------------|--------|------------|
|---------------|------------------|--------------|---------------|--------|------------|

Report Basis

T = Total

Quality Control Results

Surrogate Recovery Report

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-6333/1-A Analysis Batch: 600-6373
Client Matrix: Water Prep Batch: 600-6333
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/25/2008 1514
Date Prepared: 11/25/2008 0948

Instrument ID: TJA ICP 61E
Lab File ID: T112508
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Calcium | 0.022 | U | 0.022 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |
| Sodium | 0.020 | U | 0.020 | 1.0 |

TCLP SPLPE Leachate Blank - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: LB 600-6260/1-C Analysis Batch: 600-6373
Client Matrix: Water Prep Batch: 600-6333
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/25/2008 1522
Date Prepared: 11/25/2008 0948
Date Leached: 11/20/2008 1600 Leachate Batch: 600-6260

Instrument ID: TJA ICP 61E
Lab File ID: T112508
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Calcium | 0.022 | U | 0.022 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |
| Sodium | 0.020 | U | 0.020 | 1.0 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-6333

Lab Sample ID: MB 600-6329/1-B Analysis Batch: 600-6373
Client Matrix: Water Prep Batch: 600-6333
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/25/2008 1609
Date Prepared: 11/25/2008 0948

Method: 6010B

Preparation: 3010A
Dissolved

Instrument ID: TJA ICP 61E
Lab File ID: T112508
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|-------|-----|
| Calcium | 0.024 | J | 0.022 | 1.0 |
| Potassium | 0.13 | U | 0.13 | 1.0 |
| Magnesium | 0.019 | U | 0.019 | 1.0 |
| Sodium | 0.46 | J | 0.020 | 1.0 |

Lab Control Spike - Batch: 600-6333

Lab Sample ID: LCS 600-6333/2-A Analysis Batch: 600-6373 Instrument ID: TJA ICP 61E
Client Matrix: Water Prep Batch: 600-6333 Lab File ID: T112508
Dilution: 1.0 Units: mg/L Initial Weight/Volume: 50 mL
Date Analyzed: 11/25/2008 1518 Final Weight/Volume: 50 mL
Date Prepared: 11/25/2008 0948

Method: 6010B

Preparation: 3010A

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| Calcium | 10.0 | 9.61 | 96 | 80 - 120 | |
| Potassium | 10.0 | 10.4 | 104 | 80 - 120 | |
| Magnesium | 10.0 | 9.40 | 94 | 80 - 120 | |
| Sodium | 10.0 | 10.2 | 102 | 80 - 120 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-6333**

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

| | | | | | |
|-------------------|-----------------|-----------------|----------|------------------------|-------------|
| MS Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6373 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112508 |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/25/2008 1620 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|----------|------------------------|-------------|
| MSD Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6373 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112508 |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/25/2008 1624 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Calcium | 225 | 148 | 75 - 125 | 1 | 20 | 4 | 4 |
| Potassium | 198 | 177 | 75 - 125 | 2 | 20 | 4 | 4 |
| Magnesium | 202 | 69 | 75 - 125 | 2 | 20 | 4 | 4 |
| Sodium | 198 | 178 | 75 - 125 | 0 | 20 | 4 | 4 |

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-6333**

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

| | | | | | |
|-------------------|-----------------|-----------------|----------|------------------------|-------------|
| MS Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6419 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112608 |
| Dilution: | 20 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/26/2008 1122 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|----------|------------------------|-------------|
| MSD Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6419 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112608 |
| Dilution: | 20 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/26/2008 1126 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Calcium | 248 | -50 | 75 - 125 | 2 | 20 | 4 | 4 |
| Potassium | 134 | 114 | 75 - 125 | 4 | 20 | 4 | 4 |
| Magnesium | 180 | 6 | 75 - 125 | 2 | 20 | 4 | 4 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-6333**

Method: 6010B

Preparation: 3010A

Dissolved

| | | | | | |
|-------------------|-----------------|-----------------|----------|------------------------|-------------|
| MS Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6419 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112608 |
| Dilution: | 500 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/26/2008 1204 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|----------|------------------------|-------------|
| MSD Lab Sample ID: | 600-3706-1 | Analysis Batch: | 600-6419 | Instrument ID: | TJA ICP 61E |
| Client Matrix: | Water | Prep Batch: | 600-6333 | Lab File ID: | T112608 |
| Dilution: | 500 | | | Initial Weight/Volume: | 50 mL |
| Date Analyzed: | 11/26/2008 1208 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 0948 | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-------|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Calcium | 417 | -89 | 75 - 125 | 3 | 20 | 4 | 4 |
| Potassium | -1010 | -1030 | 75 - 125 | NC | 20 | U F | U F |
| Magnesium | 229 | -59 | 75 - 125 | 3 | 20 | 4 | 4 |
| Sodium | 1580 | 267 | 75 - 125 | 3 | 20 | 4 | 4 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Duplicate - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3706-1 Analysis Batch: 600-6373
Client Matrix: Water Prep Batch: 600-6333
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/25/2008 1617
Date Prepared: 11/25/2008 0948

Instrument ID: TJA ICP 61E

Lab File ID: T112508

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|-----------|--------------------|--------|-----|-------|------|
| Calcium | 990 | 1000 | 1 | 20 | |
| Potassium | 82 | 81.0 | 2 | 20 | |
| Magnesium | 760 | 770 | 1 | 20 | |
| Sodium | 1200 | 1180 | 1 | 20 | |

Duplicate - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3706-1 Analysis Batch: 600-6419
Client Matrix: Water Prep Batch: 600-6333
Dilution: 20 Units: mg/L
Date Analyzed: 11/26/2008 1119
Date Prepared: 11/25/2008 0948

Instrument ID: TJA ICP 61E

Lab File ID: T112608

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|-----------|--------------------|--------|-----|-------|------|
| Calcium | 1500 | 1480 | 0 | 20 | |
| Potassium | 40 | 40.0 | 1 | 20 | |
| Magnesium | 840 | 838 | 0 | 20 | |

Duplicate - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3706-1 Analysis Batch: 600-6419
Client Matrix: Water Prep Batch: 600-6333
Dilution: 500 Units: mg/L
Date Analyzed: 11/26/2008 1201
Date Prepared: 11/25/2008 0948

Instrument ID: TJA ICP 61E

Lab File ID: T112608

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|-----------|--------------------|--------|-----|-------|------|
| Calcium | 1600 | 1540 | 1 | 20 | |
| Potassium | 65 U | 65 | NC | 20 | U |
| Magnesium | 840 | 818 | 2 | 20 | |
| Sodium | 4800 | 4790 | 0 | 20 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Duplicate - Batch: 600-6333

Method: 6010B

Preparation: 3010A

Dissolved

Lab Sample ID: 600-3706-1 Analysis Batch: 600-6419
Client Matrix: Water Prep Batch: 600-6333
Dilution: 500 Units: mg/L
Date Analyzed: 11/26/2008 1201
Date Prepared: 11/25/2008 0948

Instrument ID: TJA ICP 61E
Lab File ID: T112608
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---------|--------------------|--------|-----|-------|------|
|---------|--------------------|--------|-----|-------|------|

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-5732

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5732/3 Analysis Batch: 600-5732
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 1320
Date Prepared: N/A

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 |
| Fluoride | 0.10 | U | 0.10 | 0.30 |
| Sulfate | 0.20 | U | 0.20 | 0.50 |

Lab Control Spike - Batch: 600-5732

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5732/43 Analysis Batch: 600-5732
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 1340
Date Prepared: N/A

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 | |
| Fluoride | 10.0 | 10.6 | 106 | 90 - 110 | |
| Sulfate | 20.0 | 19.0 | 95 | 90 - 110 | |

Matrix Spike - Batch: 600-5732

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3706-4 Analysis Batch: 600-5732
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/13/2008 1840
Date Prepared: N/A

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 | 34 | 100 | 128 | 94 | 90 - 110 | |
| Fluoride | 1.2 | J | 20.0 | 22.2 | 105 | 90 - 110 |
| Sulfate | 97 | 100 | 190 | 93 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Duplicate - Batch: 600-5732

Method: 300.0

Preparation: N/A

| | | | | | |
|----------------|-----------------|-----------------|----------|------------------------|----------|
| Lab Sample ID: | 600-3706-4 | Analysis Batch: | 600-5732 | Instrument ID: | ICS20000 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 10 | Units: | mg/L | Initial Weight/Volume: | 5 mL |
| Date Analyzed: | 11/13/2008 1820 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|----------|--------------------|--------|------|-------|------|
| Chloride | 34 | 33.4 | 1 | 20 | |
| Fluoride | 1.2 | J | 1.17 | 20 | J |
| Sulfate | 97 | | 96.3 | 1 | 20 |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-5745

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-5745/3 Analysis Batch: 600-5745
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 1320
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|--------------|--------|------|-------|------|
| Nitrate as N | 0.050 | U | 0.050 | 0.20 |

Lab Control Spike - Batch: 600-5745

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-5745/4 Analysis Batch: 600-5745
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/13/2008 1340
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------|--------|--------|----------|------|
| Nitrate as N | 10.0 | 9.93 | 99 | 90 - 110 | |

Matrix Spike - Batch: 600-5745

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3706-4 Analysis Batch: 600-5745
Client Matrix: Water Prep Batch: N/A
Dilution: 10 Units: mg/L
Date Analyzed: 11/13/2008 1840
Date Prepared: N/A

Instrument ID: No Equipment Assigned
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 |
|--------------|--------------------|--------------|--------|--------|----------|------|
| Nitrate as N | 1.5 | 20.0 | 21.5 | 100 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Duplicate - Batch: 600-5745**Method: 300.0****Preparation: N/A**

Lab Sample ID: 600-3706-4

Analysis Batch: 600-5745

Instrument ID: No Equipment Assigned

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 10

Units: mg/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/13/2008 1820

Final Weight/Volume: 5 mL

Date Prepared: N/A

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|--------------|--------------------|--------|-----|-------|------|
| Nitrate as N | 1.5 | 1.11 | 28 | 20 | J F |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-6104

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 600-6104/1 Analysis Batch: 600-6104
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/20/2008 1040
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL | RL |
|---|--------|------|-----|-----|
| Alkalinity | 2.5 | U | 2.5 | 2.5 |
| Bicarbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Carbonate Alkalinity as CaCO ₃ | 2.5 | U | 2.5 | 2.5 |
| Hydroxide Alkalinity | 2.5 | U | 2.5 | 2.5 |

Lab Control Spike - Batch: 600-6104

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 600-6104/2 Analysis Batch: 600-6104
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/20/2008 1040
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------|--------------|--------|--------|----------|------|
| Alkalinity | 1000 | 919 | 92 | 90 - 110 | |

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

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Method Blank - Batch: 600-5880

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 600-5880/1 Analysis Batch: 600-5880
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/15/2008 1045
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Result | Qual | RL | RL |
|------------------------|--------|------|----|----|
| Total Dissolved Solids | 10 | U | 10 | 10 |

Lab Control Spike - Batch: 600-5880

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 600-5880/2 Analysis Batch: 600-5880
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/15/2008 1045
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|--------|----------|------|
| Total Dissolved Solids | 1800 | 1750 | 97 | 90 - 110 | |

Duplicate - Batch: 600-5880

Method: SM 2540C

Preparation: N/A

Lab Sample ID: 600-3706-6 Analysis Batch: 600-5880
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 11/15/2008 1045
Date Prepared: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 100 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|------------------------|--------------------|--------|-----|-------|------|
| Total Dissolved Solids | 4800 | 4830 | 0 | 10 | |

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

Chain of Custody Record

TestAmerica

Temperature on Receipt _____

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

3706

TAL-4124 (1007)

Client CRA

Address

2135 S. Loop 250 W.

City Midland

State TX

Zip Code 79703

Project Name and Location (State) Cooper-Sol Sale N.M.

Contract/Purchase Order/Quote No. 039123

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

| Sample I.D. No. | Description | Date | Time | Matrix | Containers & Preservatives | | | | | | | | | | | |
|-----------------|-------------|-------|------|--------|----------------------------|------|-----|-----|--------|--------|-----|------|-------|------|------|-------|
| | | | | | Uptakes | Seal | Sed | Spd | Spnery | Spnery | HCl | HNO3 | H2SO4 | NaOH | NaOH | NH4OH |
| RW-4 | 111208 R | 11-12 | 1300 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RW-4A | 111208 R | 11-12 | 1325 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RW-7 | 111208 R | 11-12 | 1500 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RW-8 | 111208 R | 11-12 | 1130 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RW-1 | 111208 R | 11-12 | 1405 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RW-2 | 111208 R | 11-12 | 1215 | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Temp | | — | — | X | X | X | X | X | X | X | X | X | X | X | X | X |

Possible Hazard Identification

Non-Hazard

Flammable

Skin Irritant

Poison B

Unknown

Return To Client

Disposal By Lab

Archive For _____

Months _____

(A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal

Disposal To Client

Return To Client

Other _____

QC Requirements (Specify) _____

Turn Around Time Required

24 Hours

48 Hours

7 Days

14 Days

21 Days

Other 10 DAYS

Date 11/12/08 Time 16:45

Date 11/13/08 Time 09:05

Date 11/13/08 Time 09:05

Special Instructions/ Conditions of Receipt

Temp
3540C
300.0
2320.5
6010.3

Comments
12/02/2000

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3706-1

Login Number: 3706

List Source: TestAmerica Houston

Creator: Clarke, Michael (Mike) C

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 | |



STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER

JOHN R. D'ANTONIO, JR. P.E.
State Engineer

ROSWELL

DISTRICT II
1900 West Second St.,
Roswell, New Mexico 88201
(505) 622-6521

June 18, 2008

Texaco Exploration and Production, Inc.
% Mark Larson
P.O. Box 730
Hobbs, NM 88240-0730

REF: CP-884

Greetings:

Enclosed is your copy of the above numbered permit, which has been approved subject to the conditions set forth on the approval page thereof.

Proof of Completion of Well(s) will be filed in this office after completion and installation of equipment, but in no event later than 06/30/2010. Proof of Completion of Well forms shall be mailed upon request.

Your rights under this permit will expire on 06/30/2010, unless Proof of Completion of Well(s) is filed or an Application for Extension of Time is received in this office on or before that date.

Sincerely,

mjw
for
Andy Morley
(575) 622-6521, ext 113

Enclosure

cc: Santa Fe Office

NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)

SPECIFIC CONDITIONS OF APPROVAL

PCW Proof of Completion of Works must be filed on or before 6/30/2010

1. This application is approved as follows:

Permit Number: CP-884

Water Source: Capitan Shallow Groundwater

Point(s) of Diversion:

| Well No. | Subdivision | Section | Township | Range |
|----------|-----------------|---------|----------|-------|
| CP-884 | NW1/4NW1/4SE1/4 | 24 | 24 S. | 36 E. |

Purpose of Use: Environmental Remediation

Place of Use:

| Subdivision | Section | Township | Range |
|-----------------|---------|----------|-------|
| NW1/4NW1/4SE1/4 | 24 | 24 S. | 36 E. |

Amount of Water: Up to 32.5 acre-feet per annum (consumptive use)

2. The diversion of water under this permit shall be limited to a maximum of 32.5 acre-feet per annum, consumptive use, for Environmental Remediation purposes measured at the well.

3. Depth of well shall not exceed the thickness of the Capitan Reef formation.

4. The proposed new well CP-884 shall be drilled at least 660 feet from all wells of other ownership.

5. A totalizing meter of a type approved by and installed in a manner and at a location acceptable to the Office of the State Engineer shall be installed before the first branch of the discharge line from well CP-884. The District II Office shall be advised of the make, model, serial number, installation date and initial reading of the meter prior to any appropriation of water under this permit.

6. Records of the total amount of water diverted from all wells shall be submitted to the State Engineer Office in Roswell on or before the 10th day of January, April, July and October of each year.

**NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)**

7. Upon completion of the remediation or monitoring operation purposes, the well shall be plugged (Article 4) or otherwise maintained so that no water may be diverted from said well unless a permit authorizing the use of the well is approved by the State Engineer in accordance with the other articles of these Rules and Regulations.
8. A driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon Request.
9. The permittee shall utilize the highest technology available to ensure conservation of water to the maximum extent practical.
10. The diversion of water specified under this permit for pollution control shall not establish a water right or relieve the permittee of any liability for detriment to or impairment of existing water rights.
11. This permit shall not be exercised to the detriment of valid existing water rights, shall not be contrary to the conservation of water within the State of New Mexico, and shall not be detrimental to the public welfare of the State of New Mexico.

NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 11/09/1999 Pub. of Notice Ordered: 01/19/2000
Date Returned - Correction: Affidavit of Pub. Filed: 03/14/2000

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 18th day of Jun A.D., 2008

John R. D Antonio, Jr., P.E., State Engineer

By: Ken M. Fresquez
Ken Fresquez, District II Supervisor

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

Date Received 11-9-99 File No. CP-884

1. Name of applicant Texaco Exploration and Production, Inc.
Mailing address P. O. Box 730
City and State Hobbs, NM 88240-0370

2. Source of water supply Shallow Water Aquifer, located in Capitan
(artesian or shallow water aquifer) (name of underground basin)

3. The well is to be located in the NW ¼ NW ¼ SE ¼, Section 24, Township 24 South
Range 36 East N.M.P.M., or Tract No. _____ of Map No. _____ of the _____ District,
on land owned by Rexbury Properties Ludean Cantrell

4. Description of well: name of driller RW-2, Scarborough Drilling, Inc., Lamesa, Texas
Outside Diameter of casing 5" inches; Approximate depth to be drilled 175' feet;

5. Quantity of water to be appropriated and beneficially used 32.5 acre feet,
(consumptive use, diversion)
for Environmental Remediation purposes.

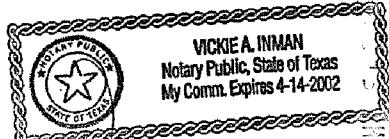
6. Acreage to be irrigated or place of use _____ acres.

Pursuant to New Mexico Oil Conservation Division
7. Additional statements or explanations _____
(NMOCD), Environmental Bureau direction, and after correspondence between applicant and the Bureau, a plan has been approved to initiate corrective action. The action will include recovering water from said well, equipped with pumping equipment, and disposal of produced water in applicant's disposal system.

I, Mark J. Larson, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Texaco Exploration and Production, Inc.

By: H. H. Goss



Subscribed and sworn to before me this 26th day of October, A.D., 1999.

My commission expires 4-15-2002 John D. Fumia

My commission expires 4-14-2002 July 1, 2002
Notary Public

Notary Public

T# 172258

Number of this permit _____

ACTION OF STATE ENGINEER

After notice pursuant to statute and by authority vested in me, this application is approved provided it is not exercised to the detriment of any others having existing rights; further provided that all rules and regulations of the State Engineer pertaining to the drilling of shallow wells be complied with, and further subject to the following conditions:

see attached conditions of approval

Proof of completion of well shall be filed on or before June 30, 2010 _____, X

Proof of application of water to beneficial use shall be filed on or before N/A , XX

Witness my hand and seal this / 0 day of June _____, A.D., 19X 2008

John R. D'Antonio, Jr., P.E., State Engineer

By: Tellie M. Trosauer

Kenneth M. Fresquez, District II Manager

INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$25.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4—Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in acre feet of water per acre per annum to be applied on the land. If for municipal or other purposes, state total quantity in acre feet to be used annually.

Sec. 6—Describe only the lands to be irrigated or where water will be used. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7.—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.



STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER

JOHN R. D'ANTONIO, JR. P.E.
State Engineer

ROSWELL

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
(505) 622-6521

June 18, 2008

Texaco Exploration and Production, Inc.
% Mark Larson
P.O. Box 730
Hobbs, NM 88240-0730

REF: CP-885

Greetings:

Enclosed is your copy of the above numbered permit, which has been approved subject to the conditions set forth on the approval page thereof.

Proof of Completion of Well(s) will be filed in this office after completion and installation of equipment, but in no event later than 06/30/2010. Proof of Completion of Well forms shall be mailed upon request.

Your rights under this permit will expire on 06/30/2010, unless Proof of Completion of Well(s) is filed or an Application for Extension of Time is received in this office on or before that date.

Sincerely,

mjm
for
Andy Morley
(575) 622-6521, ext 113

Enclosure

cc: Santa Fe Office

NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)

SPECIFIC CONDITIONS OF APPROVAL

PCW Proof of Completion of Works must be filed on or before 6/30/2010

1. This application is approved as follows:

Permit Number: CP-885

Water Source: Capitan Shallow Groundwater

Point(s) of Diversion:

| Well No. | Subdivision | Section | Township | Range |
|----------|-----------------|---------|----------|-------|
| CP-885 | NW1/4NW1/4SE1/4 | 24 | 24 S. | 36 E. |

Purpose of Use: Environmental Remediation

Place of Use:

| Subdivision | Section | Township | Range |
|-----------------|---------|----------|-------|
| NW1/4NW1/4SE1/4 | 24 | 24 S. | 36 E. |

Amount of Water: Up to 32.5 acre-feet per annum (consumptive use)

2. The diversion of water under this permit shall be limited to a maximum of 32.5 acre-feet per annum, consumptive use, for Environmental Remediation purposes measured at the well.

3. Depth of well shall not exceed the thickness of the Capitan Reef formation.

4. The proposed new well CP-885 shall be drilled at least 660 feet from all wells of other ownership.

5. A totalizing meter of a type approved by and installed in a manner and at a location acceptable to the Office of the State Engineer shall be installed before the first branch of the discharge line from well CP-885. The District II Office shall be advised of the make, model, serial number, installation date and initial reading of the meter prior to any appropriation of water under this permit.

6. Records of the total amount of water diverted from all wells shall be submitted to the State Engineer Office in Roswell on or before the 10th day of January, April, July and October of each year.

NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)

7. Upon completion of the remediation or monitoring operation purposes, the well shall be plugged (Article 4) or otherwise maintained so that no water may be diverted from said well unless a permit authorizing the use of the well is approved by the State Engineer in accordance with the other articles of these Rules and Regulations.
8. A driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon Request.
9. The permittee shall utilize the highest technology available to ensure conservation of water to the maximum extent practical.
10. The diversion of water specified under this permit for pollution control shall not establish a water right or relieve the permittee of any liability for detriment to or impairment of existing water rights.
11. This permit shall not be exercised to the detriment of valid existing water rights, shall not be contrary to the conservation of water within the State of New Mexico, and shall not be detrimental to the public welfare of the State of New Mexico.

NEW MEXICO STATE ENGINEER
APPLICATION TO DIVERT (GROUND)

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 11/09/1999 Pub. of Notice Ordered: 01/19/2000
Date Returned - Correction: Affidavit of Pub. Filed: 03/14/2000

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 16^B day of Jun A.D., 2008

John R. D'Antonio, Jr., P.E., State Engineer

By: Victor M. Fresquez
Ken Fresquez, District III Supervisor

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

Date Received 11-9-99 File No. CP-885

1. Name of applicant Texaco Exploration and Production, Inc.
Mailing address P. O. Box 730
City and State Hobbs, NM 88240-0730

2. Source of water supply Shallow Water Aquifer, located in Capitan
(artesian or shallow water aquifer) (name of underground basin)

3. The well is to be located in the NW ¼ NW ¼ SE ¼, Section 24 Township 24 South
Range 36 East N.M.P.M., or Tract No. _____ of Map No. _____ of the Capitan District,
on land owned by X X X X X X X X X X X X Ludean Cantrell.

4. Description of well: name of driller RW-1, Scarborough Drilling, Inc., Lamesa, Texas;
Outside Diameter of casing 5" inches; Approximate depth to be drilled 175' feet;

5. Quantity of water to be appropriated and beneficially used 32.5 acre feet,
(consumptive use, diversion)
for Environmental Remediation purposes.

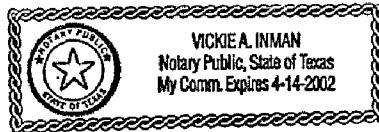
6. Acreage to be irrigated or place of use _____ acres.

7. Additional statements or explanations Pursuant to New Mexico Oil Conservation Division (NMOCD), Environmental Bureau direction and after correspondence between applicant and the Bureau, a plan has been approved to initiate corrective action. The action will include recovering water from said well, equipped with pumping equipment, and disposal of produced water in applicant's injection system.

I, Mark J. Larson (for Applicant), affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

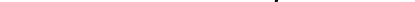
Texaco Exploration and Production, Inc.

By: Mark



Subscribed and sworn to before me this 26th day of October, 1999.

My commission expires 4-14-2002 Tony J. Chapman

My commission expires 21-14-2002 
Notary Public

Notary Public

T#172263

Number of this permit _____

ACTION OF STATE ENGINEER

After notice pursuant to statute and by authority vested in me, this application is approved provided it is not exercised to the detriment of any others having existing rights; further provided that all rules and regulations of the State Engineer pertaining to the drilling of Shallow wells be complied with; and further subject to the following conditions:

see attached conditions of approval

Proof of completion of well shall be filed on or before June 30, 2010 , 2010

Proof of application of water to beneficial use shall be filed on or before . N/A , XX

Witness my hand and seal this 16 day of June, A.D., 2008.

John R. D'Antonio, Jr., P.E., State Engineer

By: Kenneth M. Fresquez
Kenneth M. Fresquez, District II Manager

INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$25.00. Each of triplicate copies must be properly signed and attested.

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Sec. 7—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water rights sought.