# 1R-255

# Annual GW Monitoring report

# DATE:
# 2008

CONESTOGA-ROVERS
& ASSOCIATES

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Midland, Texas 79703
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July 31, 2009 Reference No. 039126 (4)

Mr. Matt Hudson
Chevron Environmental Management Company (CEMC)
15 Smith Road, Room 5317
Midland, Texas 79705

**Re: 2008 Annual Groundwater Monitoring Report**
**J.R. Phillips Tank Battery No. 2**
**OGRID No. 4323/NMOCD Case No. 1R-255**
**Lea County, New Mexico**

Dear Mr. Hudson:

Enclosed are three final copies (one bound copy and two electronic copies) of the 2008 Annual Groundwater Monitoring Report for the J.R. Phillips Tank Battery No. 2 site located in Lea County, New Mexico, prepared by Conestoga-Rovers & Associates (CRA). CRA appreciates the opportunity to provide environmental consulting services for CEMC. If you have any questions regarding this correspondence, please contact me at (432) 686-0086.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Todd Wells

Todd Wells
Project Manager

Encl. 2008 Annual Groundwater Monitoring Report
J.R. Phillips Tank Battery No. 2
OGRID No. 4323/NMOCD Case No. 1R-255
SE/4, NW/4, Section 6, T-20-S, R-37-E
Latitude: N 32° 36' 22.3" Longitude: W 103° 17' 41.5"
Lea County, New Mexico

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# 2008 ANNUAL GROUNDWATER MONITORING REPORT

J.R. PHILLIPS TANK BATTERY NO. 2
OGRID NO. 4323/CASE NO. 1R255
SE/4, NW/4, SECTION 6, T-20-S, R-37-E
LATITUDE: N 32° 36′ 22.3″ LONGITUDE: W 103° 17′ 41.5″
LEA COUNTY, NEW MEXICO

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SE/4, NW/4, SECTION 6, T-20-S, R-37-E
LATITUDE: N 32° 36′ 22.3″ LONGITUDE: W 103° 17′ 41.5″
LEA COUNTY, NEW MEXICO

Prepared For:
Mr. Matt Hudson
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
Upstream Business Unit
15 Smith Road, Room 5317
Midland, Texas 79705

**Prepared by:**
**Conestoga-Rovers & Associates**

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JULY 23, 2009
REF. NO. 039126 (4)

## TABLE OF CONTENTS



## LIST OF FIGURES



## LIST OF TABLES



## LIST OF APPENDICES

## 1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater monitoring data collected at the J.R. Phillips Tank Battery No. 2 (hereafter referred to as the "Site") by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC). Annual groundwater monitoring activities were performed on May 12 and 13, 2008.

The Site is located approximately three miles southwest of Monument, New Mexico and situated in Unit Letter F in the southeast quarter (SE/4) of the northwest quarter (NW/4) of Section 6, Township 20 South, Range 37 East, Lea County, New Mexico. The Site is a former emergency pit used for temporary containment of produced fluids associated with the tank battery. Land use in the vicinity of the Site is undeveloped rangeland vegetated with indigenous grass, livestock ranching and oil and gas production. A Site Location Map is presented as FIGURE 1.

Site assessment activities were initiated in 1999 when Environmental Plus, Inc. (EPI) of Eunice, New Mexico performed a subsurface assessment of the emergency produced water overflow pit located east of the tank battery and a small burn pit located south-southeast of the emergency pit. The investigation revealed the presence of hydrocarbon affected soil. Approximately 33,500 cubic yards of hydrocarbon-affected material were excavated at the Site between December 1999 and October 2000. The soil was transported to the Texaco Exploration and Production, Inc. (Texaco) centralized treatment facility located northwest of Jal, New Mexico. The emergency pit was excavated to approximately 25 to 30 feet below ground surface (bgs) and the burn pit was excavated to approximately 12 to 15 bgs. The remedial excavations were subsequently backfilled and closed during December 2000 and January 2001. Site assessment and remediation activities were presented in the *Comprehensive Report and Proposed Investigation Plan* (Larson & Associates, Inc. [LA], November 28, 2000).

In March 2000, EPI installed two monitor wells (MW-1 and MW-2) to evaluate background chloride concentrations in groundwater at the Site. In April 2001, LA supervised the installation of six monitor (MW-3 through MW-8) to assess groundwater quality upgradient, downgradient and crossgradient of the Site. Details of that investigation were submitted to the New Mexico Oil Conservation Division (NMOCD) in a *Groundwater Assessment Report* (LA, May 24, 2001). In that report, semi-annual groundwater monitoring was proposed for two years, with groundwater samples to be analyzed for major cations, anions and total dissolved solids (TDS).

The proposed activities were approved by the NMOCD in a letter dated December 27, 2001, with the condition that groundwater also be analyzed for benzene, toluene, ethylbenzene and xylene (BTEX). The NMOCD agreed to allow Texaco to monitor groundwater at the Site due to a regional groundwater impact from chloride that has affected groundwater at the Site, as well as upgradient, crossgradient and downgradient of the Site. An *Annual Groundwater Monitoring Report* (LA, May 10, 2004) presented the results of activities performed in 2003, which fulfilled the two-year monitoring schedule approved by the NMOCD. CEMC proposed a modification to the groundwater monitoring schedule from semi-annual to annual, analyzing groundwater samples only

for major cations, anions and TDS. The groundwater monitoring modifications were approved by the NMOCD in a letter dated October 1, 2004. NMOCD correspondence and approval letters are included in APPENDIX A. Annual groundwater monitoring results for activities performed in May 2004 and May 2005 were presented in the *Annual Groundwater Monitoring Report* (LA, August 15, 2005). CRA has performed groundwater monitoring and reporting activities since 2006.

## 2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. In addition, the NMWQCC regulations 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 annually with a network of eight monitor wells and one water well (FIGURE 2). CRA performed groundwater sampling activities on May 12 and 13, 2008.

Prior to purging the wells, static fluid levels were measured with an electric interface probe to the nearest hundredth of a foot. After recording fluid levels, the wells were purged of a minimum of three casing volumes of groundwater. 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 Environmental Protection Agency (EPA) Methods 6010B, 3005A, 2320B, 300.0 and 2540C. The fluids recovered and generated during the sampling event were containerized in sealed, 55-gallon drums located onsite and subsequently managed at an NMOCD-permitted and Chevron-approved salt water disposal (SWD) facility operated by Nabors Well Services LTD. (Nabors).

### 3.1 POTENTIOMETRIC SURFACE AND GRADIENT

Groundwater elevation data are presented in TABLE I. A groundwater gradient map for May 2008 is presented as FIGURE 3. Depth to groundwater ranged from 30.50 feet to 36.46 feet below top of casing on May 12, 2008. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.004 feet/foot.

### 3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Isopleths of the chloride, sulfate and TDS concentrations for the May 2008 groundwater monitoring event are presented as FIGURES 4, 5 and 6, respectively.

The analytical results generally fall within historical ranges. During the May 2008 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride, sulfate and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for fluoride. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX B.

## 4.0 PLANNED ACTIVITIES

Annual groundwater monitoring will continue at the Site in 2009, with submission of an annual report to the NMOCD, detailing the results of activities.

## 5.0 SUMMARY

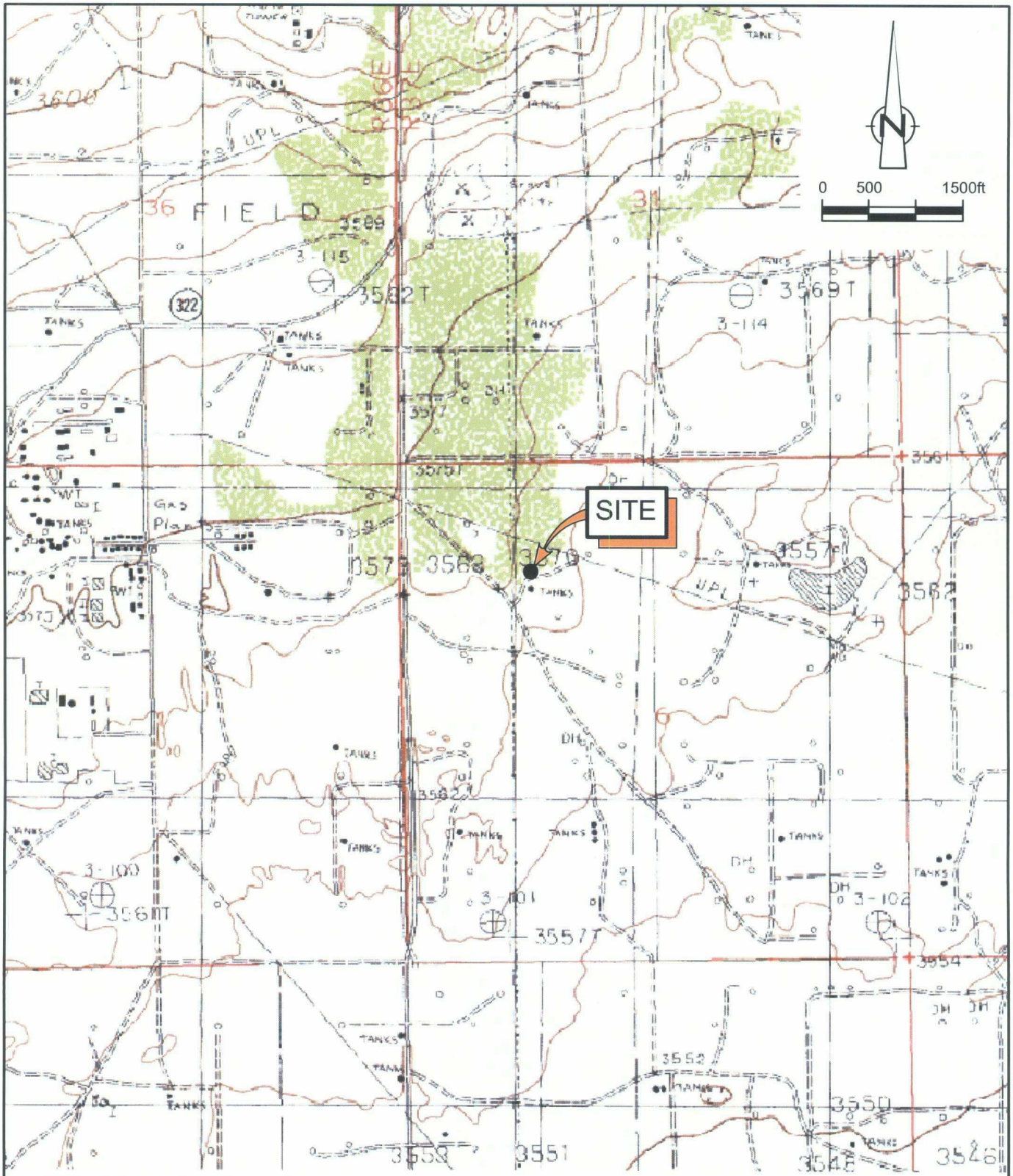
Based on historical data review and groundwater monitoring activities performed at the Site, CRA presents the following summary:

- Groundwater at the Site is monitored annually with a network of eight monitor wells and one water well;
- Depth to groundwater ranged from 30.50 feet to 36.46 feet below top of casing on May 12, 2008. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.004 feet/foot;
- The analytical results generally fall within historical ranges. During the May 2008 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride, sulfate and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for fluoride. Nitrate concentrations were below NMWQCC standards during the 2008 sampling event;
- The 2009 groundwater monitoring event is scheduled for May 2009.

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

Todd Wells
Project Manager

Thomas C. Larson
Operations Manager




SOURCE: USGS QUADRANGLE MAP;
MONUMENT SOUTH, NEW MEXICO (1985)

32° 36' 22.3" N, 103° 17' 41.5" W

figure 1

SITE LOCATION MAP
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
*Chevron Environmental Management Company*

039126-08(004)GN-MD001 MAR 20/2009


NOTE:
MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

LEGEND

MW-1 MONITOR WELL LOCATION

WATER WELL LOCATION

FENCE LINE

0 100 300ft

figure 2

SITE DETAILS MAP
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
*Chevron Environmental Management Company*

039126-08(004)GN-MD000 MAR 20/2009


NOTES:

1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER ELEVATIONS COLLECTED ON MAY 12, 2008.

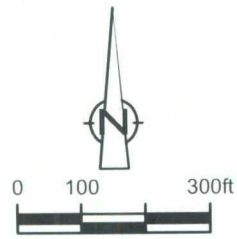



figure 3

# GROUNDWATER GRADIENT MAP - MAY 2008
# J. R. PHILLIPS NO. 2 TANK BATTERY
# LEA COUNTY, NEW MEXICO

*Chevron Environmental Management Company*

039126-08(004)GN-MD000 MAR 31/2009


NOTES:

1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER SAMPLES COLLECTED ON MAY 13, 2008.

0 100 300ft

figure 4

# CHLORIDE ISOCONCENTRATION MAP - MAY 2008
# J. R. PHILLIPS NO. 2 TANK BATTERY
# LEA COUNTY, NEW MEXICO
*Chevron Environmental Management Company*

039126-08(004)GN-MD000 APR 01/2009


NOTES:

1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER SAMPLES COLLECTED ON MAY 13, 2008.

0 100 300ft

figure 5

# SULFATE ISOCONCENTRATION MAP - MAY 2008
# J. R. PHILLIPS NO. 2 TANK BATTERY
# LEA COUNTY, NEW MEXICO

*Chevron Environmental Management Company*

039126-08(004)GN-MD000 APR 01/2009


NOTES:

1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER SAMPLES COLLECTED ON MAY 13, 2008.

0 100 300ft

figure 6

# TDS ISOCONCENTRATION MAP - MAY 2008
# J. R. PHILLIPS NO. 2 TANK BATTERY
# LEA COUNTY, NEW MEXICO
*Chevron Environmental Management Company*

039126-08(004)GN-MD000 APR 01/2009

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

| Well ID<br>*TOC Elevation* | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|---|---|---|---|---|---|
| MW-1 | 5/2/01 | 39.33 | 2 | 3532.28 | 45.10 | 27-42 |
| *3571.61* | 05/21/02 | 40.37 | --- | 3531.24 | --- | --- |
| | 11/12/02 | 40.92 | --- | 3530.69 | --- | --- |
| | 05/15/03 | 41.11 | --- | 3530.50 | --- | --- |
| | 09/03/03 | 41.54 | --- | 3530.07 | --- | --- |
| | 11/20/03 | 41.65 | --- | 3529.96 | --- | --- |
| | 05/03/04 | 41.40 | --- | 3530.21 | --- | --- |
| | 05/10/05 | 38.86 | --- | 3532.75 | --- | --- |
| | 05/15/06 | 34.70 | --- | 3536.91 | --- | --- |
| | 05/30/07 | 34.12 | --- | 3537.49 | --- | --- |
| | 05/12/08 | 35.28 | --- | 3536.33 | --- | --- |
| MW-2 | 5/2/01 | 39.15 | 2 | 3531.97 | 45.12 | 27-42 |
| *3571.12* | 05/21/02 | 40.14 | --- | 3530.98 | --- | --- |
| | 11/12/02 | 40.69 | --- | 3530.43 | --- | --- |
| | 05/15/03 | 40.89 | --- | 3530.23 | --- | --- |
| | 09/03/03 | 41.33 | --- | 3529.79 | --- | --- |
| | 11/20/03 | 41.42 | --- | 3529.70 | --- | --- |
| | 05/03/04 | 41.11 | --- | 3530.01 | --- | --- |
| | 05/10/05 | 35.78 | --- | 3535.34 | --- | --- |
| | 05/15/06 | 34.63 | --- | 3536.49 | --- | --- |
| | 05/30/07 | 33.96 | --- | 3537.16 | --- | --- |
| | 05/12/08 | 35.08 | --- | 3536.04 | 45.25 | --- |
| MW-3 | 5/2/01 | 39.30 | 2 | 3531.40 | 56.50 | 34-54 |
| *3570.70* | 05/21/02 | 40.57 | --- | 3530.13 | --- | --- |
| | 11/12/02 | 41.09 | --- | 3529.61 | --- | --- |
| | 05/15/03 | 41.26 | --- | 3529.44 | --- | --- |
| | 09/03/03 | 41.61 | --- | 3529.09 | --- | --- |
| | 11/20/03 | 41.73 | --- | 3528.97 | --- | --- |
| | 05/03/04 | 41.60 | --- | 3529.10 | --- | --- |
| | 05/10/05 | 36.89 | --- | 3533.81 | --- | --- |
| | 05/15/06 | 35.70 | --- | 3535.00 | --- | --- |
| | 05/30/07 | 35.11 | --- | 3535.59 | --- | --- |
| | 05/12/08 | 36.03 | --- | 3534.67 | 56.60 | --- |
| MW-4 | 5/2/01 | 40.24 | 2 | 3530.83 | 57.12 | 34-54 |
| *3571.07* | 05/21/02 | 41.09 | --- | 3529.98 | --- | --- |
| | 11/12/02 | 41.59 | --- | 3529.48 | --- | --- |
| | 05/15/03 | 41.77 | --- | 3529.30 | --- | --- |
| | 09/03/03 | 42.19 | --- | 3528.88 | --- | --- |
| | 11/20/03 | 42.27 | --- | 3528.80 | --- | --- |
| | 05/03/04 | 42.03 | --- | 3529.04 | --- | --- |
| | 05/10/05 | 37.15 | --- | 3533.92 | --- | --- |
| | 05/15/06 | 36.15 | --- | 3534.92 | --- | --- |
| | 05/30/07 | 35.50 | --- | 3535.57 | --- | --- |
| | 05/12/08 | 36.46 | --- | 3534.61 | 56.90 | --- |

**TABLE I**
**GROUNDWATER GAUGING SUMMARY**
**CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY**
**J.R. PHILLIPS TANK BATTERY #2**
**LEA COUNTY, NEW MEXICO**

| Well ID<br>*TOC Elevation* | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|---|---|---|---|---|---|
| MW-5 | 5/2/01 | 38.37 | 2 | 3530.94 | 57.75 | 34-54 |
| *3569.31* | 05/21/02 | 39.53 | --- | 3529.78 | --- | --- |
| | 11/12/02 | 40.02 | --- | 3529.29 | --- | --- |
| | 05/15/03 | 40.21 | --- | 3529.10 | --- | --- |
| | 09/03/03 | 42.21 | --- | 3527.10 | --- | --- |
| | 11/20/03 | 40.71 | --- | 3528.60 | --- | --- |
| | 05/03/04 | 40.39 | --- | 3528.92 | --- | --- |
| | 05/10/05 | 35.48 | --- | 3533.83 | --- | --- |
| | 05/15/06 | 34.65 | --- | 3534.66 | --- | --- |
| | 05/30/07 | 33.94 | --- | 3535.37 | --- | --- |
| | 05/12/08 | 34.93 | --- | 3534.38 | 57.90 | --- |
| MW-6 | 5/2/01 | 39.40 | 2 | 3530.13 | 57.30 | 34-54 |
| *3569.53* | 05/21/02 | 40.22 | --- | 3529.31 | --- | --- |
| | 11/12/02 | 40.72 | --- | 3528.81 | --- | --- |
| | 05/15/03 | 40.88 | --- | 3528.65 | --- | --- |
| | 09/03/03 | 41.92 | --- | 3527.61 | --- | --- |
| | 11/20/03 | 41.33 | --- | 3528.20 | --- | --- |
| | 05/03/04 | 41.12 | --- | 3528.41 | --- | --- |
| | 05/10/05 | 36.56 | --- | 3532.97 | --- | --- |
| | 05/15/06 | 35.65 | --- | 3533.88 | --- | --- |
| | 05/30/07 | 34.93 | --- | 3534.60 | --- | --- |
| | 05/12/08 | 35.79 | --- | 3533.74 | 57.90 | --- |
| MW-7 | 5/2/01 | 39.76 | 2 | 3532.70 | 57.85 | 36-56 |
| *3572.46* | 05/21/02 | 40.85 | --- | 3531.61 | --- | --- |
| | 11/12/02 | 41.47 | --- | 3530.99 | --- | --- |
| | 05/15/03 | 41.65 | --- | 3530.81 | --- | --- |
| | 09/03/03 | 42.13 | --- | 3530.33 | --- | --- |
| | 11/20/03 | 42.25 | --- | 3530.21 | --- | --- |
| | 05/03/04 | 41.92 | --- | 3530.54 | --- | --- |
| | 05/10/05 | 36.43 | --- | 3536.03 | --- | --- |
| | 05/15/06 | 35.08 | --- | 3537.38 | --- | --- |
| | 05/30/07 | 34.37 | --- | 3538.09 | --- | --- |
| | 05/12/08 | 35.56 | --- | 3536.90 | 57.85 | --- |
| MW-8 | 5/2/01 | 40.35 | 2 | 3537.31 | 65.20 | 47-62 |
| *3577.66* | 05/21/02 | 49.27 | --- | 3528.39 | --- | --- |
| | 11/12/02 | 43.15 | --- | 3534.51 | --- | --- |
| | 05/15/03 | 43.30 | --- | 3534.36 | --- | --- |
| | 09/03/03 | 43.52 | --- | 3534.14 | --- | --- |
| | 11/20/03 | 43.87 | --- | 3533.79 | --- | --- |
| | 05/03/04 | 44.07 | --- | 3533.59 | --- | --- |
| | 05/10/05 | 32.30 | --- | 3545.36 | --- | --- |
| | 05/15/06 | 33.45 | --- | 3544.21 | --- | --- |
| | 05/30/07 | 33.17 | --- | 3544.49 | --- | --- |
| | 05/12/08 | 35.66 | --- | 3542.00 | 65.35 | --- |

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

| Well ID<br>*TOC Elevation* | Collection Date | Depth to Groundwater (ft TOC) | Casing Diameter (in) | Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) |
|---|---|---|---|---|---|---|
| WW-1 | 5/2/01 | 33.93 | 5 | 3528.61 | 69.35 | Unknown |
| *3562.54* | 05/21/02 | 34.60 | --- | 3527.94 | --- | --- |
| | 11/12/02 | 35.03 | --- | 3527.51 | --- | --- |
| | 09/03/03 | 35.51 | --- | 3527.03 | --- | --- |
| | 11/20/03 | 35.56 | --- | 3526.98 | --- | --- |
| | 05/03/04 | 35.49 | --- | 3527.05 | --- | --- |
| | 05/10/05 | 30.58 | --- | 3531.96 | --- | --- |
| | 05/15/06 | 30.05 | --- | 3532.49 | --- | --- |
| | 05/30/07 | 29.47 | --- | 3533.07 | --- | --- |
| | 05/12/08 | 30.50 | --- | 3532.04 | 69.65 | --- |

Notes:

1. TOC - Top of Casing.
2. bgs - below ground surface.

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
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 | 1.60 | 10 | 600 | | | | | 1,000 |
| MW-1 | 4/10/01 | 0.00 | 556 | 556 | 7,300 | -- | -- | 2,061 | 445 | 175 | 44.00 | 5,058 | 15,816 |
| | 5/3/01 | <2.00 | 500 | 500 | 6,913 | -- | -- | 2,020 | 323.4 | 172.5 | 52.11 | 3,756 | 14,501 |
| | 5/23/02 | <1.00 | 494 | 494 | 6,060 | -- | -- | 1,850 | 361 | 154 | 66.40 | 3,750 | 13,300 |
| | 11/12/02 | <0.10 | 456 | 456 | 6,030 | -- | -- | 1,400 | 235 | 143 | 67.40 | 3,060 | 12,800 |
| | 5/15/03 | <1.00 | 430 | 430 | 5,150 | -- | -- | 1,710 | 312 | 121 | 42.80 | 3,970 | 5,990 |
| | 9/9/03 | --- | --- | --- | 5,320 | -- | -- | --- | --- | --- | --- | --- | --- |
| | 11/21/03 | <1.00 | 460 | 460 | 4,910 | -- | -- | 1,730 | 302 | 121 | 54.6 | 3,360 | 11,540 |
| | 5/4/04 | <1.00 | 438 | 438 | 5,280 | <4.00 | <4.00 | 1,620 | 272 | 115 | 49.10 | 3,030 | 11,260 |
| | 5/10/05 | <1.00 | 412 | 412 | 7,000 | <2.00 | <2.00 | 2,360 | 453 | 211 | 94.50 | 3,780 | 16,250 |
| | 5/16/06 | <10 | 410 | 410 | 6,700 | 1.3 | <0.40 | 1,700 | 403.000 D2 | 182.000 D2 | 38.400 D2 | 4,080.000 D1 | 16,600 |
| | 5/31/07 | <10 | 378 | 378 | 7,000 | <50 | <0.100 | 1,900 | 461 | 200 | <50 | 4,150 | 15,600 |
| | 5/13/08 | <1.53 | 534 | 534 | 6,670 | 2.13 | <0.95 | 1,960 | 427 | 192 | 53.6 | 3,520 | 14,700 |
| MW-2 | 4/10/01 | 0.00 | 566 | 566 | 8,704 | -- | -- | 2,611 | 569 | 296 | 31.00 | 5,871 | 19,312 |
| | 5/3/01 | <2.00 | 516 | 516 | 7,799 | -- | -- | 2,670 | 412.4 | 221.7 | 30.31 | 4,424 | 16,857 |
| | 5/22/02 | <1.00 | 530 | 530 | 7,320 | -- | -- | 2,150 | 471 | 204 | 42.20 | 4,200 | 15,700 |
| | 11/12/02 | <0.10 | 482 | 482 | 6,740 | -- | -- | 1,780 | 352 | 187 | 48.70 | 3,640 | 14,300 |
| | 5/15/03 | <1.00 | 498 | 498 | 5,850 | -- | -- | 1,990 | 312 | 150 | 31.30 | 4,670 | 14,000 |
| | 9/9/03 | --- | --- | --- | 6,470 | -- | -- | --- | --- | --- | --- | --- | --- |
| | 11/21/03 | <1.00 | 510 | 510 | 5,790 | -- | -- | 2,100 | 378 | 158 | 52.1 | 3,770 | 14,080 |
| | 5/4/04 | <1.00 | 530 | 530 | 6,040 | <4.00 | <4.00 | 1,950 | 326 | 136 | 43.80 | 3,300 | 12,520 |
| | 5/10/05 | <1.00 | 502 | 502 | 8,080 | 5.57 | <2.00 | 2,090 | 385 | 171 | 52.90 | 4,310 | 17,050 |
| | 5/16/06 | <10 | 890 | 890 | 6,300 | 2.1 | <0.40 | 1,600 | 375.000 D2 | 168.000 D2 | 9.330 D2 | 4,330.000 D1 | 14,200 |
| | 5/31/07 | <10 | 1370 | 1370 | 6,700 | <50 | <0.100 | 1,700 | 417 | 183 | <50 | 4,000 | 14,900 |
| | 5/13/08 | <1.53 | 736 | 736 | 6,440 | 6.93 | <0.95 | 1,690 | 410 | 184 | 29.1 | 3,530 | 14,000 |
| MW-3 | 5/3/01 | <2.00 | 458 | 458 | 11,078 | --- | --- | 3,525 | 984 | 431.9 | 38.89 | 6,114 | 24,135 |
| | 5/23/02 | <1.00 | 512 | 512 | 10,800 | --- | --- | 3,920 | 999 | 350 | 56.50 | 6,210 | 24,200 |
| | 11/13/02 | <0.10 | 456 | 456 | 11,400 | --- | --- | 3,670 | 863 | 371 | 59.30 | 5,680 | 23,600 |
| | 5/15/03 | <1.00 | 462 | 462 | 10,700 | --- | --- | 4,220 | 921 | 315 | 34.10 | 5,870 | 24,200 |
| | 9/9/03 | --- | --- | --- | 10,300 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 11/21/03 | <1.00 | 464 | 464 | 10,500 | --- | --- | 4,480 | 972 | 333 | 47.50 | 7,540 | 23,100 |
| | 5/4/04 | <1.00 | 478 | 478 | 11,400 | <8.00 | <8.00 | 4,750 | 808 | 291 | 54.10 | 5,290 | 22,500 |
| | 5/10/05 | <1.00 | 472 | 472 | 11,900 | <2.00 | <2.00 | 4,190 | 965 | 356 | 86.70 | 7,320 | 26,750 |
| | 5/16/06 | <10 | 550 | 550 | 8,600 | 0.76 | <0.40 | 3,100 | 642.000 D2 | 243.000 D2 | 24.100 D2 | 6,040.000 D1 | 23,200 |
| | 5/31/07 | <10 | 520 | 520 | 7,700 | <50 | <0.100 | 2,900 | 591 | 213 | <50 | 4,760 | 14,100 |
| | 5/13/08 | <1.53 | 491 | 491 | 7,500 | 7.19 | <0.95 | 2,590 | 578 | 202 | 25.5 | 4,440 | 17,200 |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
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 | 1.60 | 10 | 600 | | | | | 1,000 |
| MW-4 | 5/3/01 | <2.00 | 618 | 618 | 9,572 | --- | --- | 2,755 | 467.7 | 299.8 | 49.25 | 5,435 | 20,118 |
| | 5/22/02 | <1.00 | 814 | 814 | 8,170 | --- | --- | 1,940 | 389 | 220 | 45.30 | 5,100 | 18,200 |
| | 11/13/02 | <0.10 | 1020 | 1020 | 7,890 | --- | --- | 1,020 | 47.1 | 202 | 21.60 | 3,980 | 14,800 |
| | 5/15/03 | <1.00 | 1050 | 1050 | 7,140 | --- | --- | 1,210 | 185 | 179 | 14.80 | 5,250 | 15,200 |
| | 9/9/03 | --- | --- | --- | 7,800 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 11/21/03 | <1.00 | 770 | 770 | 7,500 | --- | --- | 2,720 | 334 | 198 | 39.70 | 4,760 | 17,350 |
| | 5/4/04 | <1.00 | 900 | 900 | 8,740 | <6.00 | <6.00 | 3,170 | 240 | 191 | 25.80 | 3,660 | 15,800 |
| | 5/10/05 | <1.00 | 708 | 708 | 7,750 | 2.73 | <2.00 | 2,010 | 330 | 186 | 50.40 | 4,400 | 26,700 |
| | 5/16/06 | <10 | 750 | 750 | 6,400 | 0.81 | <0.40 | 1,900 | 253.000 D2 | 146.000 D2 | <5.000 D2 | 4,120.000 D1 | 11,100 |
| | 5/31/07 | <10 | 624 | 624 | 5,500 | <50 | <0.100 | 1,500 | 272 | 126 | <50 | 3,550 | 13,700 |
| | 5/13/08 | <1.53 | 627 | 627 | 5,550 | 6.64 | <0.95 | 1,430 | 280 | 129 | 31.6 | 3,270 | 12,400 |
| MW-5 | 5/3/01 | <2.00 | 416 | 416 | 8,685 | --- | --- | 3,045 | 430.9 | 237.1 | 44.36 | 4,651 | 18,846 |
| | 5/23/02 | <1.00 | 496 | 496 | 6,970 | --- | --- | 2,510 | 394 | 200 | 44.00 | 4,680 | 16,900 |
| | 11/13/02 | <0.10 | 640 | 640 | 7,270 | --- | --- | 1,790 | 266 | 172 | 43.80 | 3,880 | 14,900 |
| | 5/15/03 | <1.00 | 562 | 562 | 6,800 | --- | --- | 2,320 | 383 | 167 | 30.90 | 5,300 | 16,000 |
| | 9/9/03 | --- | --- | --- | 7,090 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 11/21/03 | <1.00 | 522 | 522 | 7,010 | --- | --- | 3,170 | 434 | 178 | 54.90 | 4,300 | 16,850 |
| | 5/4/04 | <1.00 | 534 | 534 | 6,630 | <4.00 | <4.00 | 2,310 | 365 | 152 | 47.80 | 3,850 | 16,800 |
| | 5/10/05 | <1.00 | 536 | 536 | 23,300 | <2.00 | <2.00 | 2,380 | 362 | 151 | 68.30 | 4,400 | 17,400 |
| | 5/16/06 | <10 | 530 | 530 | 5,800 | 1.4 | <0.40 | 1,600 | 335.000 D2 | 143.000 D2 | 23.900 D2 | 4,110.000 D1 | 14,100 |
| | 5/31/07 | <10 | 426 | 426 | 6,400 | <50 | <0.100 | 1,500 | 372 | 154 | <50 | 3,910 | 14,400 |
| | 5/13/08 | <1.53 | 410 | 410 | 6,720 | 6.87 | <0.95 | 1,590 | 413 | 180 | 32.2 | 3,580 | 14,700 |
| MW-6 | 5/3/01 | <2.00 | 460 | 460 | 11,876 | -- | -- | 4,380 | 1,004 | 429.9 | 52.27 | 6,281 | 25,288 |
| | 5/23/02 | <1.00 | 474 | 474 | 11,000 | -- | -- | 4,300 | 1,130 | 483 | 53.00 | 6,060 | 25,500 |
| | 11/13/02 | <0.10 | 416 | 416 | 10,800 | -- | -- | 3,660 | 936 | 486 | 57.60 | 5,470 | 23,400 |
| | 5/15/03 | <1.00 | 470 | 470 | 10,700 | -- | -- | 4,310 | 1,000 | 388 | 34.10 | 5,760 | 23,800 |
| | 9/9/03 | --- | --- | --- | 10,300 | -- | -- | --- | --- | --- | --- | --- | --- |
| | 11/20/03 | <1.00 | 480 | 480 | 10,000 | -- | -- | 4,410 | 904 | 399 | 42.50 | 5,610 | 23,500 |
| | 5/4/04 | <1.00 | 466 | 466 | 11,400 | <8.00 | <8.00 | 4,310 | 869 | 350 | 49.00 | 5,590 | 23,850 |
| | 5/10/05 | <1.00 | 476 | 476 | 11,000 | 3.48 | <2.00 | 4,050 | 801 | 331 | 52.20 | 6,090 | 24,200 |
| | 5/16/06 | <10 | 750 | 750 | 8,700 | 1.0 | <0.40 | 3,200 | 620.000 D2 | 268.000 D2 | 24.200 D2 | 5,980.000 D1 | 18,900 |
| | 5/31/07 | <10 | 776 | 776 | 7,800 | <50 | <0.100 | 3,100 | 600 | 226 | <50 | 5,200 | 18,700 |
| | 5/13/08 | <1.53 | 672 | 672 | 7,230 | 7.3 | <0.95 | 2,870 | 425 | 179 | 24.7 | 4,470 | 16,900 |

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
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 | 1.60 | 10 | 600 | | | | | 1,000 |
| MW-7 | 5/2/01 | <2.00 | 436 | 436 | 8,154 | -- | -- | 2,430 | 599.5 | 289.8 | 34.57 | 4,578 | 18,578 |
| | 5/22/02 | <1.00 | 440 | 440 | 7,420 | -- | -- | 2,280 | 630 | 264 | 48.50 | 4,390 | 16,900 |
| | 11/12/02 | <0.10 | 412 | 412 | 7,530 | -- | -- | 1,800 | 512 | 244 | 55.00 | 3,950 | 15,700 |
| | 5/15/03 | <1.00 | 438 | 438 | 7,180 | -- | -- | 2,350 | 583 | 220 | 33.30 | 4,970 | 16,800 |
| | 9/9/03 | --- | --- | --- | 6,910 | -- | -- | --- | --- | --- | --- | --- | --- |
| | 11/20/03 | <1.00 | 434 | 434 | 6,360 | -- | -- | 2,110 | 532 | 204 | 52.70 | 3,770 | 14,500 |
| | 5/4/04 | <1.00 | 418 | 418 | 6,610 | <4.00 | <4.00 | 1,930 | 527 | 188 | 47.10 | 3,460 | 16,600 |
| | 5/10/05 | <1.00 | 450 | 450 | 8,210 | 2.14 | <2.00 | 1,810 | 506 | 188 | 62.80 | 3,860 | 14,600 |
| | 5/16/06 | <10 | 480 | 480 | 6,500 | 1.1 | <0.40 | 1,700 | 530.000 D2 | 200.000 D2 | 15.600 D2 | 4,020.000 D1 | 18,100 |
| | 5/31/07 | <10 | 397 | 397 | 6,800 | <50 | <0.100 | 1,800 | 496 | 187 | <50 | 3,730 | 14,900 |
| | 5/13/08 | <1.53 | 417 | 417 | 6,070 | 6.80 | <0.95 | 1,920 | 484 | 194 | 31.7 | 3,430 | 14,200 |
| MW-8 | 5/2/01 | <2.00 | 426 | 426 | 7,445 | -- | -- | 1,213 | 766.7 | 295.7 | 52.68 | 2,999 | 16,325 |
| | 5/23/02 | <1.00 | 430 | 430 | 6,680 | -- | -- | 1,260 | 701 | 237 | 75.90 | 3,420 | 13,300 |
| | 11/12/02 | <0.10 | 444 | 444 | 7,270 | -- | -- | 1,220 | 591 | 254 | 88.00 | 3,150 | 14,000 |
| | 5/15/03 | <1.00 | 468 | 468 | 7,300 | -- | -- | 1,690 | 777 | 265 | 55.10 | 4,580 | 15,700 |
| | 9/9/03 | -- | -- | -- | 7,270 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/03 | <1.00 | 438 | 438 | 8,190 | -- | -- | 2,570 | 881 | 280 | 64.5 | 3,560 | 14,040 |
| | 5/4/04 | <1.00 | 380 | 380 | 7,960 | <6.00 | <6.00 | 1,370 | 912 | 321 | 60.10 | 2,970 | 12,750 |
| | 5/10/05 | <1.00 | 446 | 446 | 2,590 | 4.12 | <1.00 | 936 | 228 | 84.40 | 46.30 | 1,740 | 5,635 |
| | 5/16/06 | <10 | 480 | 480 | 2,600 | 3.1 | <0.40 | 960 | 327.000 D2 | 117.000 D2 | 21.000 D2 | 1,680.000 D1 | 6,620 |
| | 5/31/07 | <10 | 378 | 378 | 3,200 | <50 | <0.100 | 960 | 394 | 133 | <50 | 1,830 | 8,080 |
| | 5/13/08 | <1.53 | 472 | 472 | 3,160 | 2.94 | <0.95 | 762 | 354 | 132 | 28.9 | 1,770 | 7,280 |
| WW-1 | -- | -- | -- | -- | 13,152 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/3/01 | <2.00 | <2.00 | <2.00 | 12,053 | -- | -- | 629 | 1,419 | 387.3 | 38.95 | 1,486 | 22,571 |
| | 11/12/02 | <0.10 | <2.0 | <2.0 | <5.0 | -- | -- | 998 | 1,120 | 361 | 38.30 | 2,260 | 15,800 |
| | 5/15/03 | <1.00 | <4.00 | <4.00 | 11,800 | -- | -- | 1,780 | 1,490 | 403 | 28.90 | 3,360 | 21,400 |
| | 9/9/03 | -- | -- | -- | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/21/03 | <1.00 | <4.00 | <4.00 | 10,000 | -- | -- | 2,180 | 1,650 | 461 | 52.7 | 3,630 | 18,900 |
| | 5/4/04 | <1.00 | <4.00 | <4.00 | 12,500 | <8.00 | <8.00 | 1,880 | 1,540 | 450 | 47.00 | 3,470 | 23,400 |
| | 5/10/05 | <1.00 | <4.00 | <4.00 | 121 | <1.00 | <1.00 | 63.40 | 39.8 | 12.2 | 3.05 | 10.20 | 336 |
| | 5/16/06 | <10 | 67 | 67 | 1,300 | <0.50 | 1.9 | 110 | 155.000 D2 | 34.500 D2 | <5.000 D2 | 186.000 D1 | 4,180 |
| | 5/31/07 | <10 | <10 | <10 | 2,400 | <25 | <0.100 | 300 | 645 | 167 | <50 | 1,830 | 5,340 |
| | 5/13/08 | <1.53 | <1.53 | <1.53 | 10,200 | <1.0 | <1.9 | 1,770 | 1,400 | 364 | <8.121 | 3,320 | 22,700 |

Notes:

1. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.
2. Results shown in mg/L.
3. Analytical data prior to 2006 was provided to CRA by Larson & Associates.
4. D1 - The analysis was performed at a dilution due to the high analyte concentration.
5. D2 - The analysis was performed at a dilution due to the presence of matrix interferences.

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 27, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 7000-1670-0012-5357-8116

Mr. Rodney Bailey
Texaco Exploration & Production, Inc.
500 N. Loraine
Midland, Texas 79701

**RE: CASE #1R0255**
**J.R. PHILLIPS #2 TANK BATTERY SITE**
**MONUMENT, NEW MEXICO**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed Texaco Exploration & Production, Inc.'s (Texaco) May 24, 2001 "GROUNDWATER ASSESSMENT REPORT, TEXACO EXPLORATION AND PRODUCTION INC., J.R. PHILLIPS TANK BATTERY #2, SE/4, NW/4, SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO, MAY 24, 2001" which was submitted on behalf of Texaco by their consultant Larson & Associates, Inc. This document contains the results of Texaco's investigation of the extent of ground water contamination related to a former emergency pit at the J.R. Phillips #2 Tank Battery south of Monument, New Mexico. The document also contains a proposal for further ground water monitoring at the site.

The above referenced monitoring proposal is approved with the following conditions:

1. Ground water from the monitoring wells shall also be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX).

2. Texaco shall notify the OCD at least 48 hours in advance of scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not relieve Texaco of responsibility if the work plan fails to adequately monitor contamination related to Texaco's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve Texaco of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Mark Larson, Larson & Associates, Inc.

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**
Governor
**Joanna Prukop**
Cabinet Secretary

**Mark E. Fesmire, P.E.**
Director
**Oil Conservation Division**

October 1, 2004

Mr. Rodney Bailey
ChevronTexaco
15 Smith Road
Midland, Texas 79705

**RE: CASE #1R0255**
**J.R. PHILLIPS #2 TANK BATTERY SITE**
**MONUMENT, NEW MEXICO**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed ChevronTexaco's May 10, 2004 "ANNUAL GROUNDWATER MONITORING REPORT, CHEVRONTEXACO EXPLORATION AND PRODUCTION COMPANY, J.R.PHILLIPS TANK BATTERY NO. 2, NW/4 SE/4, SECTION 30, TOWNSHIP 18 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO" which was submitted on behalf of ChevronTexaco by their consultant Larson & Associates, Inc. This document contains the results of ChevronTexaco's 2003 remediation and monitoring of contaminated ground water at the J.R. Phillips #2 Tank Battery south of Monument, New Mexico . The document also proposes to change the sampling schedule of ground water monitoring wells from semi-annual to annual sampling.

The above-referenced monitoring proposal is approved. Please be advised that OCD approval does not limit ChevronTexaco to the proposed work plan should the plan fail to adequately remediate or monitor contamination related to ChevronTexaco's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve ChevronTexaco of responsibility for compliance with any other federal, state or local laws and regulations. If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Cindy K. Crain, Larson & Associates, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

JOB NUMBER: 354100
Project ID: J.R PHILLIPS

Prepared For:

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

Attention: Todd Wells

Date: 05/29/2008


Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

05/29/08
Date

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444


TOTAL NO. OF PAGES 36

# SAMPLE INFORMATION

Date: 05/29/2008

Job Number.: 354100
Customer...: Conestoga-Rovers and Associates
Attn.....: Todd Wells

Project Number.....: 99007835
Customer Project ID....: J.R PHILLIPS
Project Description....: Chevron

| Laboratory Sample ID | Customer Sample ID | Sample Matrix | Date Sampled | Time Sampled | Date Received | Time Received |
|---|---|---|---|---|---|---|
| 354100-1 | MW-1 | Water | 05/13/2030 | 12:10 | 05/14/2008 | 09:41 |
| 354100-2 | MW-2 | Water | 05/13/2030 | 12:30 | 05/14/2008 | 09:41 |
| 354100-3 | MW-3 | Water | 05/13/2030 | 13:50 | 05/14/2008 | 09:41 |
| 354100-4 | MW-4 | Water | 05/13/2030 | 13:15 | 05/14/2008 | 09:41 |
| 354100-5 | MW-5 | Water | 05/13/2030 | 13:25 | 05/14/2008 | 09:41 |
| 354100-6 | MW-6 | Water | 05/13/2030 | 14:00 | 05/14/2008 | 09:41 |
| 354100-7 | MW-7 | Water | 05/13/2030 | 12:55 | 05/14/2008 | 09:41 |
| 354100-8 | MW-8 | Water | 05/13/2030 | 11:20 | 05/14/2008 | 09:41 |
| 354100-9 | WATER WELL | Water | 05/13/2030 | 11:45 | 05/14/2008 | 09:41 |
| 354100-10 | DUPE | Water | 05/13/2030 | 00:00 | 05/14/2008 | 09:41 |

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-1
Date Sampled.....: 05/13/2030
Time Sampled.....: 12:10
Sample Matrix.....: Water

Laboratory Sample ID: 354100-1
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 427 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1029 | srp |
| | Magnesium (Mg), Diss. | 192 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1029 | srp |
| | Potassium (K), Diss. | 53.6 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1304 | srp |
| | Sodium (Na), Diss. | 3520 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1415 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 534 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 534 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 14700 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 6670 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1418 | sur |
| | Fluoride (F), Water | 2.13 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1346 | sur |
| | Sulfate (SO4), Water | 1960 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1402 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1346 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1346 | sur |

* In Description = Dry Wgt.

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-2
Date Sampled.....: 05/13/2030
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 354100-2
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 410 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1045 | srp |
| | Magnesium (Mg), Diss. | 184 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1045 | srp |
| | Potassium (K), Diss. | 29.1 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1320 | srp |
| | Sodium (Na), Diss. | 3530 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1431 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 736 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 736 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 14000 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 6440 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1505 | sur |
| | Fluoride (F), Water | 6.93 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1433 | sur |
| | Sulfate (SO4), Water | 1690 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1449 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1433 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1433 | sur |

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 354100 Date:05/29/2008

ER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

Customer Sample ID: MW-3
Date Sampled.....: 05/13/2030
Time Sampled.....: 13:50
Sample Matrix.....: Water

Laboratory Sample ID: 354100-3
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 578 | | | 0.2185 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1324 | srp |
| | Magnesium (Mg), Diss. | 202 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1048 | srp |
| | Potassium (K), Diss. | 25.5 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1324 | srp |
| | Sodium (Na), Diss. | 4440 | | | 4.000 | 400.0 | 200 | mg/L | 199638 | | 05/28/08 1558 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 491 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 491 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 17200 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 7500 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1623 | sur |
| | Fluoride (F), Water | 7.19 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1520 | sur |
| | Sulfate (SO4), Water | 2590 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1536 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1520 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1520 | sur |

* In Description = Dry Wgt.

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-4
Date Sampled.....: 05/13/2030
Time Sampled.....: 13:15
Sample Matrix.....: Water

Laboratory Sample ID: 354100-4
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 280 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1052 | srp |
| | Magnesium (Mg), Diss. | 129 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1052 | srp |
| | Potassium (K), Diss. | 31.6 | | | 0.08121 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1052 | srp |
| | Sodium (Na), Diss. | 3270 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1446 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 627 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 627 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 12400 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 5550 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1710 | sur |
| | Fluoride (F), Water | 6.64 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1638 | sur |
| | Sulfate (SO4), Water | 1430 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1654 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1638 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1638 | sur |

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates | PROJECT: J.R PHILLIPS | ATTN: Todd Wells

Customer Sample ID: MW-5
Date Sampled.....: 05/13/2030
Time Sampled.....: 13:25
Sample Matrix.....: Water

Laboratory Sample ID: 354100-5
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 413 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1104 | srp |
| | Magnesium (Mg), Diss. | 180 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1104 | srp |
| | Potassium (K), Diss. | 32.2 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1332 | srp |
| | Sodium (Na), Diss. | 3580 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1450 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 410 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 410 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 14700 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 6720 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1756 | sur |
| | Fluoride (F), Water | 6.87 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1725 | sur |
| | Sulfate (SO4), Water | 1590 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1741 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1725 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1725 | sur |

* In Description = Dry Wgt.

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-6
Date Sampled.....: 05/13/2030
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 354100-6
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 425 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1108 | srp |
| | Magnesium (Mg), Diss. | 179 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1108 | srp |
| | Potassium (K), Diss. | 24.7 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1336 | srp |
| | Sodium (Na), Diss. | 4470 | | | 4.000 | 400.0 | 200 | mg/L | 199638 | | 05/28/08 1602 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 672 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 672 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 16900 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 7230 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 1843 | sur |
| | Fluoride (F), Water | 7.30 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1812 | sur |
| | Sulfate (SO4), Water | 2870 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1828 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1812 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1812 | sur |

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-7
Date Sampled.....: 05/13/2030
Time Sampled.....: 12:55
Sample Matrix.....: Water

Laboratory Sample ID: 354100-7
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ; 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| ; 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 484 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1112 | srp |
| | Magnesium (Mg), Diss. | 194 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1112 | srp |
| | Potassium (K), Diss. | 31.7 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1339 | srp |
| | Sodium (Na), Diss. | 3430 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1458 | srp |
| :20 B | Alkalinity, Total as CaCO3, Water | 417 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Bicarbonate (HCO3), Water | 417 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :540C | Solids, Total Dissolved (TDS), Water | 14200 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| :00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 6070 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 2001 | sur |
| | Fluoride (F), Water | 6.80 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 1930 | sur |
| | Sulfate (SO4), Water | 1920 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 1946 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1930 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 1930 | sur |

* In Description = Dry Wgt.

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: MW-8
Date Sampled.....: 05/13/2030
Time Sampled.....: 11:20
Sample Matrix.....: Water

Laboratory Sample ID: 354100-8
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 354 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1120 | srp |
| | Magnesium (Mg), Diss. | 132 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1120 | srp |
| | Potassium (K), Diss. | 28.9 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1355 | srp |
| | Sodium (Na), Diss. | 1770 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1502 | srp |
| 20 B | Alkalinity, Total as CaCO3, Water | 472 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Bicarbonate (HCO3), Water | 472 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| 540C | Solids, Total Dissolved (TDS), Water | 7280 | | | 1.533 | 40 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| 00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 3160 | | | 15 | 50 | 100 | mg/L | 198924 | | 05/14/08 2048 | sur |
| | Fluoride (F), Water | 2.94 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 2017 | sur |
| | Sulfate (SO4), Water | 762 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 2048 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 2017 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 2017 | sur |

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: WATER WELL
Date Sampled.....: 05/13/2030
Time Sampled.....: 11:45
Sample Matrix.....: Water

Laboratory Sample ID: 354100-9
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ; 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| ; 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 1400 | | | 2.185 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1359 | srp |
| | Magnesium (Mg), Diss. | 364 | | | 1.604 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1359 | srp |
| | Potassium (K), Diss. | 8.121 | U | | 8.121 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1359 | srp |
| | Sodium (Na), Diss. | 3320 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1359 | srp |
| :20 B | Alkalinity, Total as CaCO3, Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Bicarbonate (HCO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| .540C | Solids, Total Dissolved (TDS), Water | 22700 | | | 1.533 | 100 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| .00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 10200 | | | 150 | 500 | 1000 | mg/L | 198924 | | 05/14/08 2238 | sur |
| | Fluoride (F), Water | 1.0 | U | | 1.0 | 3.0 | 10 | mg/L | 198924 | | 05/14/08 2135 | sur |
| | Sulfate (SO4), Water | 1770 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 2151 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 1.9 | U | O | 1.9 | 2.0 | 10 | mg/L | 198924 | | 05/14/08 2135 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.65 | U | O | 0.65 | 2.0 | 10 | mg/L | 198924 | | 05/14/08 2135 | sur |

* In Description = Dry Wgt.

# LABORATORY TEST RESULTS

Job Number: 354100

Date:05/29/2008

ER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Customer Sample ID: DUPE
Date Sampled.....: 05/13/2030
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 354100-10
Date Received.....: 05/14/2008
Time Received.....: 09:41

| METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | Q | FLAGS | MDL | RL | DILUTION | UNITS | BATCH | DT | DATE/TIME | TECH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ; 3005A | Acid Digestion, Diss. | Complete | | | | | 1 | | 199563 | | 05/27/08 1535 | rim |
| ; 6010B | Metals Analysis (ICAP Trace) | | | | | | | | | | | |
| | Calcium (Ca), Diss. | 356 | | | 0.02185 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1127 | srp |
| | Magnesium (Mg), Diss. | 131 | | | 0.01604 | 2.000 | 1 | mg/L | 199638 | | 05/28/08 1127 | srp |
| | Potassium (K), Diss. | 28.7 | | | 0.8121 | 20.00 | 10 | mg/L | 199638 | | 05/28/08 1403 | srp |
| | Sodium (Na), Diss. | 1790 | | | 2.000 | 200.0 | 100 | mg/L | 199638 | | 05/28/08 1506 | srp |
| :20 B | Alkalinity, Total as CaCO3, Water | 444 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Bicarbonate (HCO3), Water | 444 | | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :20 B | Carbonate (CO3), Water | 1.53 | U | | 1.53 | 5.0 | 1 | mg/L | 199280 | | 05/21/08 1425 | sng |
| :540C | Solids, Total Dissolved (TDS), Water | 7220 | | | 1.533 | 40 | 1 | mg/L | 199020 | | 05/15/08 1640 | daw |
| :00.0 | Ion Chromatography Analysis | | | | | | | | | | | |
| | Chloride, Water | 3300 | | | 15 | 50 | 100 | mg/L | 198924 | | 05/14/08 2325 | sur |
| | Fluoride (F), Water | 2.97 | | | 0.50 | 1.5 | 5 | mg/L | 198924 | | 05/14/08 2253 | sur |
| | Sulfate (SO4), Water | 829 | | | 34 | 50 | 100 | mg/L | 198924 | | 05/14/08 2325 | sur |
| 0 Rev2. | Ion Chromatography Analysis - Short Hold | | | | | | | | | | | |
| | Nitrogen, Nitrate as N (NO3-N), Water | 0.95 | U | O | 0.95 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 2253 | sur |
| | Nitrogen, Nitrite as N (NO2-N), Water | 0.32 | U | O | 0.32 | 1.0 | 5 | mg/L | 198924 | | 05/14/08 2253 | sur |

* In Description = Dry Wgt.

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

Test Method.....: SM 2320 B Analyst...: sng
Method Description.: Alkalinity Units.....: mg/L CaCO3 Test Code.: ALK
Parameter.....: Alkalinity, Total as CaCO3 Batch(s)...: 199280

| 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 |
| MS | 354238-12 | WC4081A | 6598.98 | | 2500.000000 | 4112.41 | 99.5 | 75-125 | | 05/21/2008 | 1425 |
| DU | 354238-12 | | 4112.41 | | | 4112.41 | 0.0 | 20 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| MS | 354438-6 | WC4081A | 396.32 | | 250.000000 | 181.18 | 86.1 | 75-125 | | 05/21/2008 | 1425 |
| MS | 354242-5 | WC4081A | 407.64 | | 250.000000 | 177.40 | 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 |
| DU | 354100-1 | | 535.98 | | | 534.09 | 0.4 | 20 | | 05/21/2008 | 1425 |
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| DU | 354438-6 | | 181.18 | | | 181.18 | 0.0 | 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 |

Test Method.....: SM 2320 B Analyst...: sng
Method Description.: Alkalinity Units.....: mg/L CaCO3 Test Code.: HCO3
Parameter.....: Bicarbonate (HCO3) Batch(s)...: 199280

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MB | 199280--21 | | 1.89 | | | | | | | 05/21/2008 | 1425 |
| 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 |
| 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 Analyst...: sng
Method Description.: Alkalinity Units.....: mg/L CaCO3 Test Code.: CO3
Parameter.....: Carbonate (CO3) Batch(s)...: 199280

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

Test Method.....: SM 2540C Analyst...: daw
Method Description.: Solids, Total Dissolved (TDS) Units.....: mg/L Test Code.: TDS
Parameter.....: Solids, Total Dissolved (TDS) Batch(s)...: 199020

| QC | Lab ID | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits | F | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DU | 354227-2 | | 637.00 | | | 624.00 | 2.1 | 10.0 | | 05/15/2008 | 1640 |
| DU | 354100-1 | | 14580.00 | | | 14720.00 | 1.0 | 10.0 | | 05/15/2008 | 1640 |
| LCS | 199020--21 | WCS49472 | 1821.00 | | 1800 | | 101.2 | 90.0-110. | | 05/15/2008 | 1640 |
| MB | 199020--21 | | 1.00 | | | | | | | 05/15/2008 | 1640 |



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

QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

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

Test Method.....: EPA300.0 Rev2.1 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis - Short Hold Batch(s)...: 198924

| CCB | Continuing Calibration Blank | | | | 05/14/2008 16( |
|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4) | 0 | | | | | | |
| Fluoride (F) | 0 | | | | | | |
| Chloride | 0 | | | | | | |
| Bromide (Br) | 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 | | | | 05/14/2008 19: |
|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Fluoride (F) | 0 | | | | | | |
| Bromide (Br) | 0 | | | | | | |
| Sulfate (SO4) | 0 | | | | | | |
| Chloride | 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 | | | | 05/14/2008 22: |
|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Fluoride (F) | 0 | | | | | | |
| Bromide (Br) | 0 | | | | | | |
| Sulfate (SO4) | 0 | | | | | | |
| Chloride | 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 | | | | 05/15/2008 01: |
|---|---|---|---|---|---|

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



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/15/2008 | 04 |

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

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/15/2008 | 05 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| 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 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/14/2008 | 15 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Fluoride (F) | 10.152 | | 10.00 | | 101.5 | | 90.0-110.0 |
| Bromide (Br) | 20.044 | | 20.00 | | 100.2 | | 90.0-110.0 |
| Sulfate (SO4) | 19.538 | | 20.00 | | 97.7 | | 90.0-110.0 |
| Chloride | 19.993 | | 20.00 | | 100.0 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.517 | | 10.0 | | 105.2 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.8297 | | 10.0 | | 98.3 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/14/2008 | 18 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br) | 19.993 | | 20.00 | | 100.0 | | 90.0-110.0 |
| Fluoride (F) | 10.131 | | 10.00 | | 101.3 | | 90.0-110.0 |
| Sulfate (SO4) | 19.612 | | 20.00 | | 98.1 | | 90.0-110.0 |
| Chloride | 19.935 | | 20.00 | | 99.7 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.418 | | 10.0 | | 104.2 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7858 | | 10.0 | | 97.9 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/14/2008 | 22 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br) | 19.994 | | 20.00 | | 100.0 | | 90.0-110.0 |
| Chloride | 19.904 | | 20.00 | | 99.5 | | 90.0-110.0 |
| Sulfate (SO4) | 19.607 | | 20.00 | | 98.0 | | 90.0-110.0 |
| Fluoride (F) | 10.303 | | 10.00 | | 103.0 | | 90.0-110.0 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/14/2008 | 22 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate as N (NO3-N) | 10.440 | | 10.0 | | 104.4 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7987 | | 10.0 | | 98.0 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/15/2008 | 01 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Fluoride (F) | 10.716 | | 10.00 | | 107.2 | | 90.0-110.0 |
| Chloride | 20.057 | | 20.00 | | 100.3 | | 90.0-110.0 |
| Bromide (Br) | 20.090 | | 20.00 | | 100.5 | | 90.0-110.0 |
| Sulfate (SO4) | 20.056 | | 20.00 | | 100.3 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.490 | | 10.0 | | 104.9 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.8364 | | 10.0 | | 98.4 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/15/2008 | 04 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4) | 19.516 | | 20.00 | | 97.6 | | 90.0-110.0 |
| Fluoride (F) | 10.456 | | 10.00 | | 104.6 | | 90.0-110.0 |
| Bromide (Br) | 19.936 | | 20.00 | | 99.7 | | 90.0-110.0 |
| Chloride | 19.916 | | 20.00 | | 99.6 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.429 | | 10.0 | | 104.3 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7617 | | 10.0 | | 97.6 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | WCS49460 | | | 05/15/2008 | 05 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4) | 19.454 | | 20.00 | | 97.3 | | 90.0-110.0 |
| Chloride | 19.858 | | 20.00 | | 99.3 | | 90.0-110.0 |
| Bromide (Br) | 19.993 | | 20.00 | | 100.0 | | 90.0-110.0 |
| Fluoride (F) | 10.349 | | 10.00 | | 103.5 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.414 | | 10.0 | | 104.1 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7382 | | 10.0 | | 97.4 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| DU | Method Duplicate | | 354100-8 | 100 | 05/14/2008 | 21 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br), Water | 0 | | | 0 | 0 | | 1 |
| Chloride, Water | 32.163 | | | 31.563 | 1.9 | | 20 |
| Fluoride (F), Water | 0.1132 | | | 0.1066 | 0.0066 | | 0.3000 |
| Sulfate (SO4), Water | 7.7680 | | | 7.6231 | 1.9 | | 20 |
| 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 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| DU | Method Duplicate | | 354014-1 | 10 | 05/15/2008 | 02 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br), Water | 0 | | | 0 | 0 | | 1 |
| Chloride, Water | 5.0166 | | | 4.9731 | 0.9 | | 20 |
| Sulfate (SO4), Water | 6.9222 | | | 7.1134 | 2.7 | | 20 |
| Fluoride (F), Water | 12.567 | | | 13.514 | 7.3 | | 20 |
| Nitrogen, Nitrate as N (NO3-N), Water | 0.1291 | | | 0.1298 | 0.0007 | | 0.2500 |
| Nitrogen, Nitrite as N (NO2-N), Water | 0 | | | 0 | 0 | | 0 |
| Nitrate + Nitrite as N, Water | 0.129 | | | 0.130 | 0.001 | | 0.400 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| DU | Method Duplicate | | 354155-1 | 10 | 05/15/2008 | 03 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4), Water | 0.4126 | | | 0.3449 | 0.0677 | | 0.5000 |
| Chloride, Water | 6.3501 | | | 6.4127 | 1.0 | | 20 |
| Bromide (Br), Water | 0 | | | 0 | 0 | | 1 |
| Fluoride (F), Water | 0 | | | 0.1090 | 0.1090 | | 0.3000 |
| 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 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| ICB | Initial Calibration Blank | | | | 05/14/2008 | 13 |

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

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| ICV | Initial Calibration Verification | WCS49460 | | | 05/14/2008 | 12 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4) | 18.884 | | 20.00 | | 94.4 | | 90.0-110.0 |
| Fluoride (F) | 9.6032 | | 10.00 | | 96.0 | | 90.0-110.0 |
| Chloride | 19.502 | | 20.00 | | 97.5 | | 90.0-110.0 |
| Bromide (Br) | 19.604 | | 20.00 | | 98.0 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.214 | | 10.0 | | 102.1 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.5765 | | 10.0 | | 95.8 | | 90.0-110.0 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| LCS | Laboratory Control Sample | WCS49460 | | | 05/14/2008 | 13 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 19.905 | | 20.00 | | 99.5 | | 90.0-110.0 |
| Fluoride (F) | 9.7307 | | 10.00 | | 97.3 | | 90.0-110.0 |
| Bromide (Br) | 19.976 | | 20.00 | | 99.9 | | 90.0-110.0 |
| Sulfate (SO4) | 19.426 | | 20.00 | | 97.1 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.469 | | 10.0 | | 104.7 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7750 | | 10.0 | | 97.8 | | 90.0-110.0 |

| | | | | | |
|---|---|---|---|---|---|
| LCS | Laboratory Control Sample | WCS49460 | | | 05/15/2008 02 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 19.859 | | 20.00 | | 99.3 | | 90.0-110.0 |
| Fluoride (F) | 10.223 | | 10.00 | | 102.2 | | 90.0-110.0 |
| Sulfate (SO4) | 19.547 | | 20.00 | | 97.7 | | 90.0-110.0 |
| Bromide (Br) | 20.057 | | 20.00 | | 100.3 | | 90.0-110.0 |
| Nitrogen, Nitrate as N (NO3-N) | 10.464 | | 10.0 | | 104.6 | | 90.0-110.0 |
| Nitrogen, Nitrite as N (NO2-N) | 9.7436 | | 10.0 | | 97.4 | | 90.0-110.0 |

| | | | | | |
|---|---|---|---|---|---|
| MB | Method Blank | | | | 05/14/2008 13 |

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

| | | | | | |
|---|---|---|---|---|---|
| MB | Method Blank | | | | 05/15/2008 01 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br) | 0 | | | | | | |
| Chloride | 0.2013 | | | | | | |
| Sulfate (SO4) | 0 | | | | | | |
| Fluoride (F) | 0 | | | | | | |
| Nitrogen, Nitrate as N (NO3-N) | 0 | | | | | | |
| Nitrogen, Nitrite as N (NO2-N) | 0 | | | | | | |
| Nitrate + Nitrite as N | 0.000 | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MS | Matrix Spike | WCS48935 | 354100-8 | 100 | 05/14/2008 21 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br), Water | 9.7759 | | 10.000000 | 0 | 97.8 | | 90-110 |
| Fluoride (F), Water | 1.6978 | | 2.000000 | 0.1066 | 79.6 | | 90-110 |
| Sulfate (SO4), Water | 17.270 | | 10.000000 | 7.6231 | 96.5 | | 90-110 |
| Chloride, Water | 40.202 | | 10.000000 | 31.563 | 86.4 | | 90-110 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 — Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: J.R PHILLIPS — ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | WCS48935 | 354100-8 | 100 | 05/14/2008 | 21: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate as N (NO3-N), Water | 2.0670 | | 2.000000 | 0 | 103.3 | | 90-110 |
| Nitrogen, Nitrite as N (NO2-N), Water | 1.8789 | | 2.000000 | 0 | 93.9 | | 90-110 |
| Nitrate + Nitrite as N, Water | 3.946 | | 0.000000 | 0.000 | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | WCS48935 | 354014-1 | 10 | 05/15/2008 | 02: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Bromide (Br), Water | 10.969 | | 10.000000 | 0 | 109.7 | | 90-110 |
| Sulfate (SO4), Water | 16.471 | | 10.000000 | 7.1134 | 93.6 | | 90-110 |
| Fluoride (F), Water | 14.495 | | 2.000000 | 13.514 | 49.0 | | 90-110 |
| Chloride, Water | 15.169 | | 10.000000 | 4.9731 | 102.0 | | 90-110 |
| Nitrogen, Nitrate as N (NO3-N), Water | 2.1918 | | 2.000000 | 0.1298 | 103.1 | | 90-110 |
| Nitrogen, Nitrite as N (NO2-N), Water | 2.1680 | | 2.000000 | 0 | 108.4 | | 90-110 |
| Nitrate + Nitrite as N, Water | 4.360 | | 0.000000 | 0.130 | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | WCS48935 | 354155-1 | 10 | 05/15/2008 | 04( |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sulfate (SO4), Water | 9.8439 | | 10.000000 | 0.3449 | 95.0 | | 90-110 |
| Bromide (Br), Water | 9.7521 | | 10.000000 | 0 | 97.5 | | 90-110 |
| Chloride, Water | 16.067 | | 10.000000 | 6.4127 | 96.5 | | 90-110 |
| Fluoride (F), Water | 1.6542 | | 2.000000 | 0.1090 | 77.3 | | 90-110 |
| Nitrogen, Nitrate as N (NO3-N), Water | 2.0820 | | 2.000000 | 0 | 104.1 | | 90-110 |
| Nitrogen, Nitrite as N (NO2-N), Water | 1.6999 | | 2.000000 | 0 | 85.0 | | 90-110 |
| Nitrate + Nitrite as N, Water | 3.782 | | 0.000000 | 0.000 | | | |

Test Method.....: SW-846 6010B — Units.....: mg/L — Analyst...: srp
Method Description.: Metals Analysis (ICAP Trace) — Batch(s)...: 199638

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 09: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.00748 | | | | | | |
| Magnesium (Mg) | -0.03122 | | | | | | |
| Potassium (K) | -0.14658 | | | | | | |
| Sodium (Na) | 0.00266 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 11( |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.01857 | | | | | | |
| Magnesium (Mg) | -0.06967 | | | | | | |
| Potassium (K) | -0.23081 | | | | | | |
| Sodium (Na) | 0.48257 | | | | | | |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 11 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.02259 | | | | | | |
| Magnesium (Mg) | -0.08284 | | | | | | |
| Potassium (K) | -0.30311 | | | | | | |
| Sodium (Na) | 0.44142 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 12 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.02783 | | | | | | |
| Magnesium (Mg) | -0.08707 | | | | | | |
| Potassium (K) | -0.34446 | | | | | | |
| Sodium (Na) | 0.47204 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 13 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.02064 | | | | | | |
| Magnesium (Mg) | -0.07633 | | | | | | |
| Potassium (K) | -0.27441 | | | | | | |
| Sodium (Na) | 0.18798 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 14 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.01323 | | | | | | |
| Magnesium (Mg) | -0.06434 | | | | | | |
| Potassium (K) | -0.16907 | | | | | | |
| Sodium (Na) | 0.15811 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 15 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.01213 | | | | | | |
| Magnesium (Mg) | -0.04769 | | | | | | |
| Potassium (K) | -0.14623 | | | | | | |
| Sodium (Na) | 0.13391 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.00079 | | | | | | |
| Magnesium (Mg) | -0.03337 | | | | | | |
| Potassium (K) | -0.05595 | | | | | | |
| Sodium (Na) | 0.09800 | | | | | | |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCB | Continuing Calibration Blank | | | | 05/28/2008 | 16: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 0.00072 | | | | | | |
| Magnesium (Mg) | -0.03834 | | | | | | |
| Potassium (K) | -0.09200 | | | | | | |
| Sodium (Na) | 0.07915 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 09: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.28749 | | 12.50 | | 98.3 | | 90.0-110.0 |
| Magnesium (Mg) | 4.70279 | | 5.000 | | 94.1 | | 90.0-110.0 |
| Potassium (K) | 12.19663 | | 12.50 | | 97.6 | | 90.0-110.0 |
| Sodium (Na) | 12.62000 | | 12.50 | | 101.0 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 10: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.22039 | | 12.50 | | 97.8 | | 90.0-110.0 |
| Magnesium (Mg) | 4.63964 | | 5.000 | | 92.8 | | 90.0-110.0 |
| Potassium (K) | 12.52725 | | 12.50 | | 100.2 | | 90.0-110.0 |
| Sodium (Na) | 12.13835 | | 12.50 | | 97.1 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 11: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.02738 | | 12.50 | | 96.2 | | 90.0-110.0 |
| Magnesium (Mg) | 4.58826 | | 5.000 | | 91.8 | | 90.0-110.0 |
| Potassium (K) | 12.63315 | | 12.50 | | 101.1 | | 90.0-110.0 |
| Sodium (Na) | 12.57669 | | 12.50 | | 100.6 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 12: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 11.90952 | | 12.50 | | 95.3 | | 90.0-110.0 |
| Magnesium (Mg) | 4.63590 | | 5.000 | | 92.7 | | 90.0-110.0 |
| Potassium (K) | 12.61691 | | 12.50 | | 100.9 | | 90.0-110.0 |
| Sodium (Na) | 12.84091 | | 12.50 | | 102.7 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 13: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.18228 | | 12.50 | | 97.5 | | 90.0-110.0 |
| Magnesium (Mg) | 4.65999 | | 5.000 | | 93.2 | | 90.0-110.0 |
| Potassium (K) | 12.30685 | | 12.50 | | 98.5 | | 90.0-110.0 |
| Sodium (Na) | 12.55244 | | 12.50 | | 100.4 | | 90.0-110.0 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 14 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.26347 | | 12.50 | | 98.1 | | 90.0-110.0 |
| Magnesium (Mg) | 4.71293 | | 5.000 | | 94.3 | | 90.0-110.0 |
| Potassium (K) | 12.32393 | | 12.50 | | 98.6 | | 90.0-110.0 |
| Sodium (Na) | 12.73418 | | 12.50 | | 101.9 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 15 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.28077 | | 12.50 | | 98.2 | | 90.0-110.0 |
| Magnesium (Mg) | 4.74388 | | 5.000 | | 94.9 | | 90.0-110.0 |
| Potassium (K) | 12.17980 | | 12.50 | | 97.4 | | 90.0-110.0 |
| Sodium (Na) | 12.66389 | | 12.50 | | 101.3 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.49933 | | 12.50 | | 100.0 | | 90.0-110.0 |
| Magnesium (Mg) | 4.82107 | | 5.000 | | 96.4 | | 90.0-110.0 |
| Potassium (K) | 12.04128 | | 12.50 | | 96.3 | | 90.0-110.0 |
| Sodium (Na) | 12.45924 | | 12.50 | | 99.7 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CCV | Continuing Calibration Verification | MS052008CC | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.56621 | | 12.50 | | 100.5 | | 90.0-110.0 |
| Magnesium (Mg) | 4.78596 | | 5.000 | | 95.7 | | 90.0-110.0 |
| Potassium (K) | 12.06625 | | 12.50 | | 96.5 | | 90.0-110.0 |
| Sodium (Na) | 12.32103 | | 12.50 | | 98.6 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CH1 | Calibration check standard 1 | MS050708T1 | | | 05/28/2008 | 09 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 0.09815 | | 0.1000 | | 98.2 | | 80.0-120.0 |
| Magnesium (Mg) | 0.08216 | | 0.1000 | | 82.2 | | 80.0-120.0 |
| Potassium (K) | 0.48911 | | 0.60000 | | 81.5 | | 80.0-120.0 |
| Sodium (Na) | 0.65639 | | 0.60000 | | 109.4 | | 80.0-120.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| CH1 | Calibration check standard 1 | MS050708T1 | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 0.09246 | | 0.1000 | | 92.5 | | 80.0-120.0 |
| Potassium (K) | 0.50216 | | 0.60000 | | 83.7 | | 80.0-120.0 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| CH3 | Standard check for ICAP | MS041408T3 | | | 05/28/2008 | 08 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 19.82477 | | 20.00 | | 99.1 | | 95.0-105.0 |
| Magnesium (Mg) | 19.78650 | | 20.00 | | 98.9 | | 95.0-105.0 |
| Potassium (K) | 20.20104 | | 20.00 | | 101.0 | | 95.0-105.0 |
| Sodium (Na) | 20.13417 | | 20.00 | | 100.7 | | 95.0-105.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| EB | Extraction Blank | | 199563 | | 05/28/2008 | 10 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 0.01623 | | | | | | |
| Magnesium (Mg), Diss. | -0.01307 | | | | | | |
| Potassium (K), Diss. | 0.01731 | | | | | | |
| Sodium (Na), Diss. | 0.10671 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| EB | Extraction Blank | | 199563 | | 05/28/2008 | 11 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), TCLP | -0.02886 | | | | | | |
| Magnesium (Mg), TCLP | -0.10152 | | | | | | |
| Potassium (K), TCLP | -0.32805 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| ICB | Initial Calibration Blank | | | | 05/28/2008 | 09 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | -0.00121 | | | | | | |
| Magnesium (Mg) | -0.01660 | | | | | | |
| Potassium (K) | -0.11092 | | | | | | |
| Sodium (Na) | 0.00358 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| ICV | Initial Calibration Verification | MS052008CC | | | 05/28/2008 | 08 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 12.39515 | | 12.50 | | 99.2 | | 90.0-110.0 |
| Magnesium (Mg) | 4.82661 | | 5.000 | | 96.5 | | 90.0-110.0 |
| Potassium (K) | 12.08872 | | 12.50 | | 96.7 | | 90.0-110.0 |
| Sodium (Na) | 12.49906 | | 12.50 | | 100.0 | | 90.0-110.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| ISA | Interference Check Sample A | MS040808IA | | | 05/28/2008 | 09 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 483.33859 | | 500.0 | | 96.7 | | 80-120 |
| Magnesium (Mg) | 531.87048 | | 500.0 | | 106.4 | | 80-120 |
| Potassium (K) | 0.07422 | | 0.0 | | | | |
| Sodium (Na) | 0.03567 | | 0.0 | | | | |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| ISA | Interference Check Sample A | MS040808IA | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 487.40963 | | 500.0 | | 97.5 | | 80-120 |
| Magnesium (Mg) | 534.24530 | | 500.0 | | 106.8 | | 80-120 |
| Potassium (K) | 0.06197 | | 0.0 | | | | |
| Sodium (Na) | 0.13605 | | 0.0 | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| ISB | Interference Check Sample B | MS040808IB | | | 05/28/2008 | 09 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 496.99871 | | 510.0 | | 97.5 | | 80.0-120.0 |
| Magnesium (Mg) | 541.32458 | | 510.0 | | 106.1 | | 80.0-120.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| ISB | Interference Check Sample B | MS040808IB | | | 05/28/2008 | 16 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 500.33496 | | 510.0 | | 98.1 | | 80.0-120.0 |
| Magnesium (Mg) | 545.70373 | | 510.0 | | 107.0 | | 80.0-120.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| LCS | Laboratory Control Sample | MSPIKEW | 199563 | | 05/28/2008 | 10 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Water | 10.30901 | | 10.00 | | 103.1 | | 80.0-120.0 |
| Magnesium (Mg), Water | 9.69738 | | 10.00 | | 97.0 | | 80.0-120.0 |
| Potassium (K), Water | 10.13922 | | 10.00 | | 101.4 | | 80.0-120.0 |
| Sodium (Na), Water | 10.36908 | | 10.00 | | 103.7 | | 80.0-120.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| MB | Method Blank | | 199563 | | 05/28/2008 | 10 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Water | -0.00931 | | | | | | |
| Magnesium (Mg), Water | -0.01705 | | | | | | |
| Potassium (K), Water | 0.00325 | | | | | | |
| Sodium (Na), Water | 0.00211 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| MD | Method Duplicate | | 354100-1 | | 05/28/2008 | 10 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 422.68109 | 427.10284 | | 427.10284 | 1.0 | | 20 |
| Magnesium (Mg), Diss. | 190.88548 | 191.59106 | | 191.59106 | 0.4 | | 20 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MD | Method Duplicate | | 354541-1 | | 05/28/2008 | 11 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), TCLP | 323.10516 | 322.43228 | | 322.43228 | 0.2 | | 20 |
| Magnesium (Mg), TCLP | 15.98331 | 15.88644 | | 15.88644 | 0.6 | | 20 |
| Potassium (K), TCLP | 2.34694 | 2.29576 | | 2.29576 | 0.05118 | | 2.00000 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MD | Method Duplicate | | 354100-1 | 10 | 05/28/2008 | 13( |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Potassium (K), Diss. | 5.35010 | 5.35591 | | 5.35591 | 0.00581 | | 2.00000 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MD | Method Duplicate | | 354100-1 | 100 | 05/28/2008 | 14: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sodium (Na), Diss. | 36.51709 | 35.23717 | | 35.23717 | 3.6 | | 20 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | MSPIKEW | 354100-1 | | 05/28/2008 | 10: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 427.53030 | | 10.00 | 427.10284 | 4.3 | | 75-125 |
| Magnesium (Mg), Diss. | 198.59024 | | 10.00 | 191.59106 | 70.0 | | 75-125 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | MSPIKEW | 354541-1 | | 05/28/2008 | 12( |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), TCLP | 335.19650 | | 10.00 | 322.43228 | 127.6 | | 75-125 |
| Magnesium (Mg), TCLP | 25.84531 | | 10.00 | 15.88644 | 99.6 | | 75-125 |
| Potassium (K), TCLP | 23.45923 | | 10.00 | 2.29576 | 211.6 | | 75-125 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | MSPIKEW | 354100-1 | 10 | 05/28/2008 | 13: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Potassium (K), Diss. | 6.92254 | | 1.000000 | 5.35591 | 156.7 | | 75-125 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| MS | Matrix Spike | MSPIKEW | 354100-1 | 100 | 05/28/2008 | 14: |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sodium (Na), Diss. | 36.20420 | | 0.100000 | 35.23717 | 967.0 | | 75-125 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Tim |
|---|---|---|---|---|---|---|
| MSD | Matrix Spike Duplicate | MSPIKEW | 354100-1 | | 05/28/2008 | 10 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 419.64294 | 427.53030 | 10.00 | 427.10284 | -74.6 | | 75-125 |
| | | | | | 224.5 | | 20 |
| Magnesium (Mg), Diss. | 196.69259 | 198.59024 | 10.00 | 191.59106 | 51.0 | | 75-125 |
| | | | | | 31.4 | | 20 |

| MSD | Matrix Spike Duplicate | MSPIKEW | 354541-1 | | 05/28/2008 | 12 |
|---|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), TCLP | 335.11251 | 335.19650 | 10.00 | 322.43228 | 126.8 | | 75-125 |
| | | | | | 0.6 | | 20 |
| Magnesium (Mg), TCLP | 25.78034 | 25.84531 | 10.00 | 15.88644 | 98.9 | | 75-125 |
| | | | | | 0.7 | | 20 |
| Potassium (K), TCLP | 23.34678 | 23.45923 | 10.00 | 2.29576 | 210.5 | | 75-125 |
| | | | | | 0.5 | | 20 |

| MSD | Matrix Spike Duplicate | MSPIKEW | 354100-1 | 10 | 05/28/2008 | 13 |
|---|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Potassium (K), Diss. | 6.95149 | 6.92254 | 1.000000 | 5.35591 | 159.6 | | 75-125 |
| | | | | | 1.8 | | 20 |

| MSD | Matrix Spike Duplicate | MSPIKEW | 354100-1 | 100 | 05/28/2008 | 14 |
|---|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Sodium (Na), Diss. | 36.56295 | 36.20420 | 0.100000 | 35.23717 | 1325.8 | | 75-125 |
| | | | | | 31.3 | | 20 |

| PDS | Post Digestion Spike | MSPIKE3 | 354100-1 | | 05/28/2008 | 12 |
|---|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 415.33190 | | 10.00 | 427.10284 | -117.7 | | 75-125 |
| Magnesium (Mg), Diss. | 198.47653 | | 10.00 | 191.59106 | 68.9 | | 75-125 |

| PDS | Post Digestion Spike | MSPIKE3 | 354100-1 | 10 | 05/28/2008 | 14 |
|---|---|---|---|---|---|---|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Potassium (K), Diss. | 19.77471 | | 10.00 | 5.35591 | 144.2 | | 75-125 |



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

# QUALITY CONTROL RESULTS

Job Number.: 354100 Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| SO | Calibration Blank | | | | 05/28/2008 | 08 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 0.00294 | | | | | | |
| Magnesium (Mg) | 0.01077 | | | | | | |
| Potassium (K) | 0.27960 | | | | | | |
| Sodium (Na) | 0.01834 | | | | | | |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| SD | Serial Dilution | | 354100-1 | 5 | 05/28/2008 | 12 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca), Diss. | 89.62976 | | | 427.10284 | 4.9 | | 10.0 |
| Magnesium (Mg), Diss. | 40.55711 | | | 191.59106 | 5.8 | | 10.0 |
| Potassium (K), Diss. | 12.91689 | | | 76.48688 | 15.6 | | 10.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| SD | Serial Dilution | | 354100-1 | 50 | 05/28/2008 | 14 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Potassium (K), Diss. | 0.64002 | | | 5.35591 | 40.3 | | 10.0 |

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---|---|---|---|---|---|---|
| STD | Spiked Blank Duplicate | | | | 05/28/2008 | 08 |

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * | Limits |
|---|---|---|---|---|---|---|---|
| Calcium (Ca) | 0.29422 | | | | | | |
| Magnesium (Mg) | 0.44686 | | | | | | |
| Potassium (K) | 2.11538 | | | | | | |
| Sodium (Na) | 5.44277 | | | | | | |



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

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

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

Explanation of Organic QC Outliers:

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

Explanation of Inorganic QC Outliers:

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

Abbreviations:

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

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

Method References:

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

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

# LABORATORY CHRONICLE

Job Number: 354100 Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

Lab ID: 354100-1 Client ID: MW-1 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTION |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| | Electronic Data Deliverables | 1 | | | | | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1346 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1402 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1418 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 1346 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1029 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1304 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1415 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

Lab ID: 354100-2 Client ID: MW-2 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTION |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1433 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1449 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1505 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 1433 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1045 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1320 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1431 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

Lab ID: 354100-3 Client ID: MW-3 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTION |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1520 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1536 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1623 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 1520 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1048 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1324 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1558 | 200 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

Lab ID: 354100-4 Client ID: MW-4 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTION |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1638 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1654 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 1710 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 1638 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1052 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1446 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

Lab ID: 354100-5 Client ID: MW-5 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTION |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |

# LABORATORY CHRONICLE

Job Number: 354100 Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

Lab ID: 354100-5 Client ID: MW-5 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTIO |
|---|---|---|---|---|---|---|
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1725 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1741 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1756 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 1725 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1104 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1332 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1450 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 1640 | |

Lab ID: 354100-6 Client ID: MW-6 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTIO |
|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1812 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1828 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1843 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 1812 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1108 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1336 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1602 | 200 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 1640 | |

Lab ID: 354100-7 Client ID: MW-7 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTIO |
|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1930 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 1946 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 2001 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 1930 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1112 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1339 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1458 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 1640 | |

Lab ID: 354100-8 Client ID: MW-8 Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTIO |
|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 2017 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 2048 | 100 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 2017 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1120 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1355 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 1502 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 1640 | |

Lab ID: 354100-9 Client ID: WATER WELL Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | DILUTIO |
|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 1535 | |

# LABORATORY CHRONICLE

Job Number: 354100 Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: J.R PHILLIPS ATTN: Todd Wells

Lab ID: 354100-9 Client ID: WATER WELL Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTIOI |
|---|---|---|---|---|---|---|---|
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 2135 | 10 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 2151 | 100 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 2238 | 1000 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 2135 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1359 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

Lab ID: 354100-10 Client ID: DUPE Date Recvd: 05/14/2008 Sample Date: 05/13/2030

| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT #(S) | DATE/TIME ANALYZED | | DILUTIOI |
|---|---|---|---|---|---|---|---|
| SW-846 3005A | Acid Digest. for ICP - Total Recoverable | 1 | 199563 | | 05/27/2008 | 1535 | |
| SM 2320 B | Alkalinity | 1 | 199280 | | 05/21/2008 | 1425 | |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 2253 | 5 |
| EPA 300.0 | Ion Chromatography Analysis | 1 | 198924 | | 05/14/2008 | 2325 | 100 |
| EPA300.0 Rev2. | Ion Chromatography Analysis - Short Hold | 1 | 198924 | | 05/14/2008 | 2253 | 5 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1127 | |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1403 | 10 |
| SW-846 6010B | Metals Analysis (ICAP Trace) | 1 | 199638 | 199563 | 05/28/2008 | 1506 | 100 |
| N/A | Sample Filtration | 1 | 199538 | | 05/27/2008 | 1330 | |
| SM 2540C | Solids, Total Dissolved (TDS) | 1 | 199020 | | 05/15/2008 | 1640 | |

# Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

354100

TAL-4124 (1007)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| CRA | Todd Wells | 5-13-08 | 070823 |
| **Address** | **Telephone Number (Area Code)/Fax Number** | **Lab Number** | **Page** 1 of 1 |
| 2135 S. Loop 250 W. | (432) 686-0086 / (432) 686-0186 | Houston | |
| **City** / **State** / **Zip Code** | **Site Contact** | **Lab Contact** | |
| Midland / TX / 79703 | Todd Wells | Sachin Kudchadkar | |
| **Project Name and Location (State)** | **Carrier/Waybill Number** | | |
| J.R. Phillips Lea County, NM | | | |
| **Contract/Purchase Order/Quote No.** | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Ice | Analysis: 6010 B | 2320 B | 300.0 | 2540 C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 5-13-08 | 1210 | | X | | | X | | | | | | X | X | X | X | X |
| MW-2 | 5-13-08 | 1230 | | X | | | X | | | | | | X | X | X | X | X |
| MW-3 | 5-13-08 | 1350 | | X | | | X | | | | | | X | X | X | X | X |
| MW-4 | 5-13-08 | 1315 | | X | | | X | | | | | | X | X | X | X | X |
| MW-5 | 5-13-08 | 1325 | | X | | | X | | | | | | X | X | X | X | X |
| MW-6 | 5-13-08 | 1400 | | X | | | X | | | | | | X | X | X | X | X |
| MW-7 | 5-13-08 | 1255 | | X | | | X | | | | | | X | X | X | X | X |
| MW-8 | 5-13-08 | 1120 | | X | | | X | | | | | | X | X | X | X | X |
| Water Well | 5-13-08 | 1145 | | X | | | X | | | | | | X | X | X | X | X |
| Dupe | 5-13-08 | — | | X | | | X | | | | | | X | X | X | X | X |

Special Instructions/ Conditions of Receipt

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

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

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

**QC Requirements (Specify)**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: Todd Wells | 5-13-08 | 1720 | 1. Received By: | 5/14/08 | 9:41 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments

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