

**AP - 056**

**AGWMR**

**10/20/2010**

**AP056**



**Matthew P. Hudson**  
Remediation Project  
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**Upstream Business Unit**  
Chevron Environmental  
Management Company  
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October 20, 2010

Mr. Glenn von Gonten  
New Mexico Oil Conservation Division  
1220 South St. Francis Dr  
Santa Fe, NM 87505

**Subject: Report Submittal**

Dear Glenn:

Please find enclosed one hardcopy and one electronic copy of the following reports:

**Eunice North Chlorides Investigation Report**  
**Eunice North Gas Plant, Lea Co., GW-004**

**2009 Annual Groundwater Monitoring Report**  
**Eunice South Gas Plant, Lea Co., GW-003**

**2009 Annual Groundwater Monitoring Report**  
**Mark Owen #9 Reserve Pit, Lea Co., AP #57** *56*

Please contact me with any questions.

Sincerely,

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

Matthew P. Hudson

Enclosure

CC:



**CONESTOGA-ROVERS  
& ASSOCIATES**

2135 S. Loop 250 West  
Midland, Texas 79703  
Telephone: (432) 686-0086 Fax: (432) 686-0186  
<http://www.craworld.com>

October 14, 2010

Reference No. 046121 (6)

Mr. Matt Hudson  
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY  
UPSTREAM BUSINESS UNIT  
1400 Smith Street  
Room 07062  
Houston, Texas 77002

**RE: Transmittal of Final 2009 Annual Groundwater Monitoring Report  
Mark Owen #9 Reserve Pit (AP#57)  
NW/4 of SE/4 (J) Section 34, T-21-S; R-37-E  
Lea County, New Mexico**

Mr. Hudson:

Conestoga-Rovers and Associates, Inc. (CRA) is pleased to provide Chevron Environmental Management Company (CEMC) with a one paper copy and three CD copies of the subject 2009 Annual Groundwater Monitoring Report. CRA understands that CEMC will forward this report to Mr. Glen Von Gonten with the New Mexico Oil Conservation Division (NMOCD) in Santa Fe, New Mexico. CRA appreciates this opportunity to provide environmental services to CEMC. Please contact me if you have any questions or require more information.

Sincerely,  
CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in black ink, appearing to read "D C" followed by a cursive name.

Desireé Crenshaw  
Environmental Scientist/Project Manager

Attachments:      1 paper copy of Final 2008 Annual Groundwater Monitoring Report  
                        3 CD copies of Final 2008 Annual Groundwater Monitoring Report

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## **2009 ANNUAL GROUNDWATER MONITORING REPORT**

**CHEVRON U.S.A., INC.  
MARK OWEN #9 RESERVE PIT (AP #57)  
NW/4 OF SE/4 (J) SECTION 34, T-21-S; R-37-E  
LEA COUNTY, NEW MEXICO**

**Prepared For:**

**Mr. Matt Hudson  
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY  
UPSTREAM BUSINESS UNIT  
1400 Smith Street, Room 07062  
Houston, Texas 77002**

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

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**APRIL 6, 2010  
REF. NO. 046121 (6)**

## TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION .....	1
2.0 REGULATORY FRAMEWORK AND SITE CLASSIFICATION.....	2
3.0 GROUNDWATER MONITORING ACTIVITIES.....	3
3.1 POTENIOMETRIC SURFACE AND GRADIENT .....	3
3.2 ANALYTICAL RESULTS .....	3
4.0 SUMMARY OF FINDINGS .....	5
5.0 RECCOMENDATIONS.....	6

## LIST OF FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE DETAILS MAP
FIGURE 3	APRIL 2009 GROUNDWATER GRADIENT MAP
FIGURE 4	OCTOBER 2009 GROUNDWATER GRADIENT MAP
FIGURE 5	APRIL 2009 CHLORIDE CONCENTRATION MAP
FIGURE 6	OCTOBER 2009 CHLORIDE CONCENTRATION MAP
FIGURE 7	APRIL 2009 TDS CONCENTRATION MAP
FIGURE 8	OCTOBER 2009 TDS CONCENTRATION MAP

## LIST OF TABLES

TABLE I	GROUNDWATER GAUGING SUMMARY
TABLE II	GROUNDWATER ANALYTICAL SUMMARY – BTEX & TPH
TABLE III	SUMMARY OF GROUNDWATER ANALYTICAL DATA – RCRA METALS AND GROUNDWATER QUALITY PARAMETERS

## LIST OF APPENDICES

APPENDIX A	CERTIFIED LABORATORY ANALYTICAL REPORTS
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## **1.0 INTRODUCTION**

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2009 reporting period at Mark Owen #9 Reserve Pit (hereafter referred to as the "Site"). On April 20, and October 26, 2009, Conestoga-Rovers & Associates (CRA) conducted the semi-annual groundwater monitoring events on behalf of Chevron Environmental Management Company (CEMC).

The legal description of the Site is the NW/4 of the SE/4 of Section 34, Township 21 South, Range 37 East, Lea County, New Mexico (FIGURE 1). The Site is situated immediately southeast of the town of Eunice, New Mexico and is associated with a release of fluids from the reserve pit utilized in the drilling of the Mark Owen #9 oil well by Chevron in 2005. Global Positioning System (GPS) coordinates for the site are Latitude 32° 25' 56.49" North and Longitude 103° 08' 46.27" West. The O-GRID number assigned to the Site is reported as #4323. The Mark Owen #9 well site is currently operated by Chevron USA.

A Revised Stage 1 Abatement Plan for the Mark Owen #9 Reserve Pit was submitted on behalf of CEMC by CRA to the New Mexico Oil Conservation Division (NMOCD) in a correspondence dated March 13, 2007. The NMOCD assigned AP #57 to this Abatement Plan, however, the agency has not yet provided a written response to the March 2007 submittal that included data from soil and groundwater investigation and remedial activities performed at the site (by Environmental Plus, Inc.) at the site in 2006. Consequently, an investigation was performed at the site in October 2007 to collect current information associated with the indicated May 2006 release of drilling fluids from the reserve pit into the surrounding soils and groundwater. An Interim Investigation Report was submitted to the agency in March 2008 summarizing the results of the October 2007 investigation. A 2008 Annual Groundwater Monitoring Report was submitted by CRA to CEMC in January 2009. Currently the Site is monitored quarterly by CRA.

## **2.0 REGULATORY FRAMEWORK**

The NMOCD guidelines require groundwater to be analyzed for constituents of concern (COC) as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. The NMWQCC regulations provide Human Health Standards for Groundwater. The COC 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 shown in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Chloride <sup>2</sup>	250
Fluoride <sup>1</sup>	1.6
Nitrate (NO <sub>3</sub> as N) <sup>1</sup>	10
Sulfate (SO <sub>4</sub> ) <sup>2</sup>	600
Total Dissolved Solids (TDS) <sup>2</sup>	1,000
Benzene <sup>1</sup>	0.01
Toluene <sup>1</sup>	0.75
Ethylbenzene <sup>1</sup>	0.75
Total Xylenes <sup>1</sup>	0.62

Notes:

1) <sup>1</sup>NMWQCC Human Health Standards per NMAC 20.6.2.310B

2) <sup>2</sup>NMWQCC Other Standards for Domestic Water Supply per NMAC 20.6.2.3103B

### **3.0 GROUNDWATER MONITORING ACTIVITIES**

The Site is monitored semi-annually with a network of four monitor wells (MW-1, MW-2, MW-3, and MW-4) installed in October 2007. Each well has an above-ground surface completion with protective bollards.

Prior to purging the monitor wells, static fluid levels were measured with an electronic interface probe to the nearest hundredth of a foot. After recording fluid levels, the wells were hand bailed and purged of three casing volumes of groundwater. Water quality parameters pH, temperature and conductivity were recorded during purging. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final de-ionized water rinse. Subsequent to the purging process, groundwater samples were collected with new disposable PVC bailers. Laboratory-supplied sample containers were filled directly from the bailers.

The 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 Lancaster Laboratories of Lancaster, Pennsylvania using EPA-approved chain-of-custody procedures. The water samples were analyzed for total petroleum hydrocarbons by (TPH) by EPA Method 8015 modified for diesel range organics (DRO) and gasoline range organics (GRO) benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B, and groundwater quality (total alkalinity, chloride, sulfate and total dissolved solids (TDS)) by EPA Methods 160.1, 300.0 and 310.1, respectively. The non-hazardous fluids recovered during the April 2009 event were disposed of in April 2009; the non-hazardous fluids recovered during the October 2009 event were disposed of in November 2009. The fluids generated during the sampling events were containerized onsite in labeled drums and subsequently managed at an NMOCD permitted salt water disposal (SWD) facility by Nabors Well Services LTD (Nabors).

#### **3.1 POTENTIOMETRIC SURFACE AND GRADIENT**

Groundwater elevation data are presented in TABLE I and are consistent with elevations from the October 2007 investigation. Groundwater gradient maps for April and October 2009 are presented in FIGURES 3 and 4, respectively. Depth to groundwater ranged from 32.72-feet to 36.45-feet below top of casing on April 20, 2009 and from 32.75-feet to 36.46-feet below top of casing on October 26, 2009. Groundwater flow at the Site is to the southeast at a gradient of 0.004-ft/ft.

#### **3.2 ANALYTICAL RESULTS**

The 2009 analytical results are summarized in TABLE II and TABLE III. Two monitor wells (MW-1 and MW-4) exceeded chloride and TDS NMWQCC standards. All four monitoring wells exhibited BTEX below NMWQCC standards. The groundwater analytical summaries (including comparisons to applicable NMWQCC standards) are provided in TABLES II and III. Isopleth maps approximating chloride and TDS

concentrations for both April and October 2009 events are shown on FIGURES 5, 6, 7 and 8.

Groundwater COCs detected above the NMWQCC "Other Standards for Domestic Water Supply" are highlighted in TABLE III and are listed below:

- Chloride was detected at concentrations above the NMWQCC "Other Standards for Domestic Water Supply" (250 mg/L) in MW-1 and MW-4 during both the April and October 2009 events;
- Total Dissolved Solids were detected at concentrations above the NMWQCC "Other Standards for Domestic Water Supply" (1,000 mg/L) in MW-1 and MW-4 during the April and October 2009 event.

Duplicate samples were collected from MW-1 during the April 2009 event and MW-4 during the October 2009 event. Duplicate constituents were detected without any significant deviations in April 2009. October 2009 duplicates were inconsistent for MW-4, however both showed a significant increase from the previous sampling event. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX A.

#### **4.0 SUMMARY OF FINDINGS**

Based on groundwater assessment activities performed by CRA at the Site in April and October, 2009, the summaries of findings include the following:

- CRA/CEMC has yet to receive comments on a Revised Stage 1 AP Plan (AP#57) that was submitted to the NMOCD on March 13, 2007. Consequently, a Site investigation was performed in October 2007 and a groundwater sampling event conducted on November 1, 2007. An Interim Investigation Report was submitted to the agency in March 2008 and in 2009. CRA conducted semi-annual groundwater monitoring for 2009;
- The depth to groundwater from TOC ranged from 32.72-feet to 36.45-feet below top of casing on April 20, 2009 and from 32.75-feet to 36.46-feet below top of casing on October 26, 2009. Groundwater flow at the Site is to the southeast at a gradient of 0.004-ft/ft;
- Two monitor wells exceeded NMOCD "Other Standards for Domestic Water Supply" for chlorides and TDS during both the April and October 2009 events: MW-1 and MW-4;
- All four monitoring wells exhibited BTEX and Sulfate concentrations below their respective NMWQCC standards.

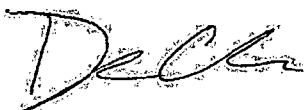
## 5.0 RECOMMENDATIONS

Based upon the summary of findings presented in this report, the following is recommended:

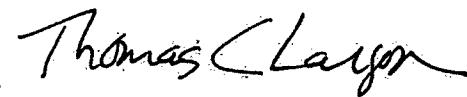
- Delineate groundwater impacts to the north, east and south of the reserve pit;
- Start quarterly groundwater sampling in 2010 to monitor the fluctuating levels chlorides and total dissolved solids;
- Omit BTEX analysis from future groundwater sampling events since all monitor wells exhibit BTEX below detectable limits for the past five events.

All of Which is Respectfully Submitted,

**CONESTOGA-ROVERS & ASSOCIATES**



Desireé Crenshaw  
Project Manager



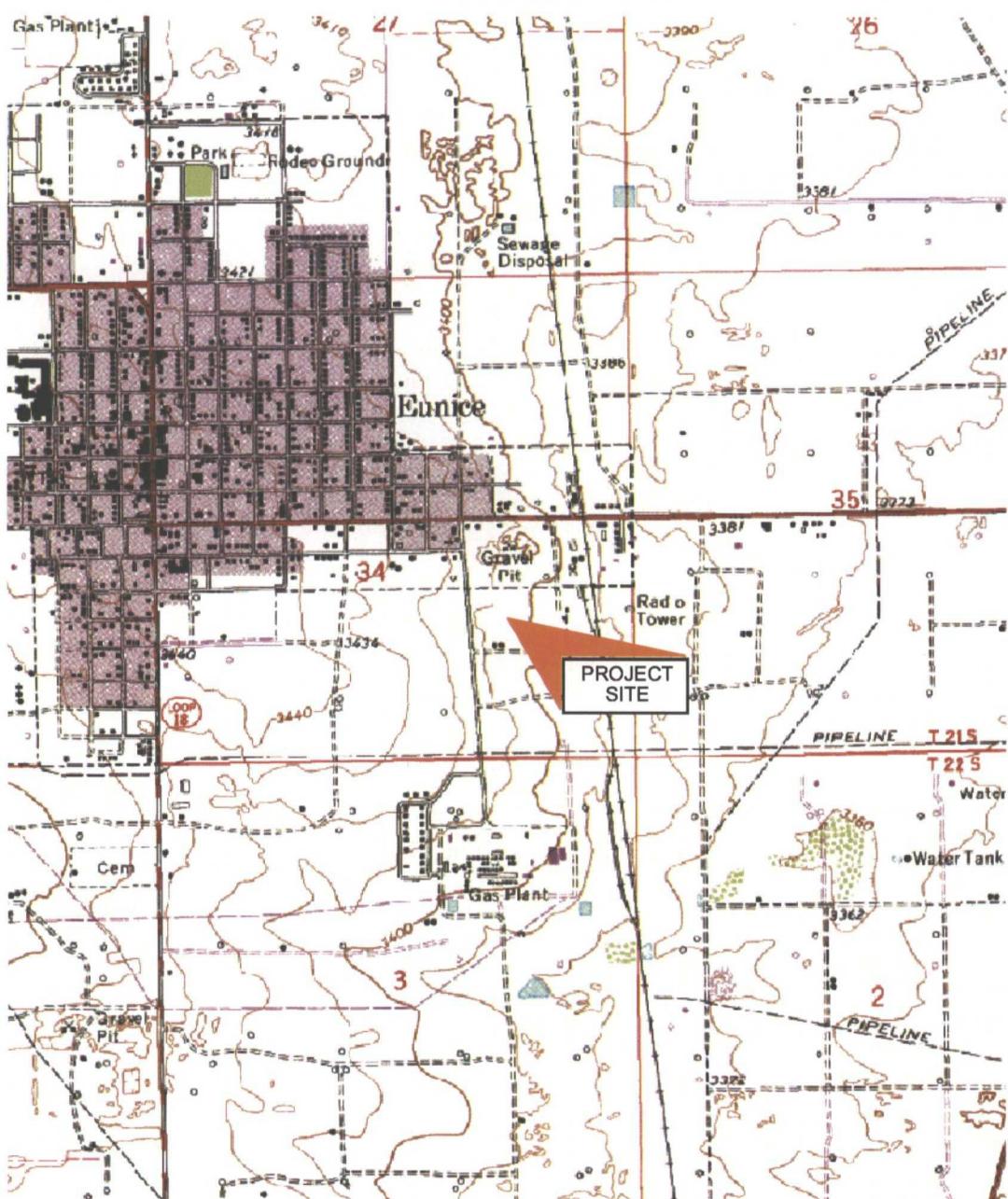
Thomas C. Larson  
Senior Project Geologist

EUNICE QUADRANGLE  
NEW MEXICO

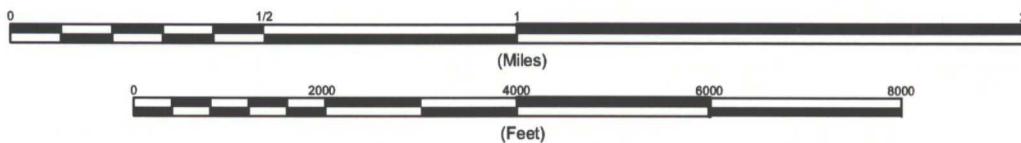
LAT= 32° 25' 56.9" N  
LONG= 103° 08' 47.9" W



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USGS MAP SERIES 1:24000

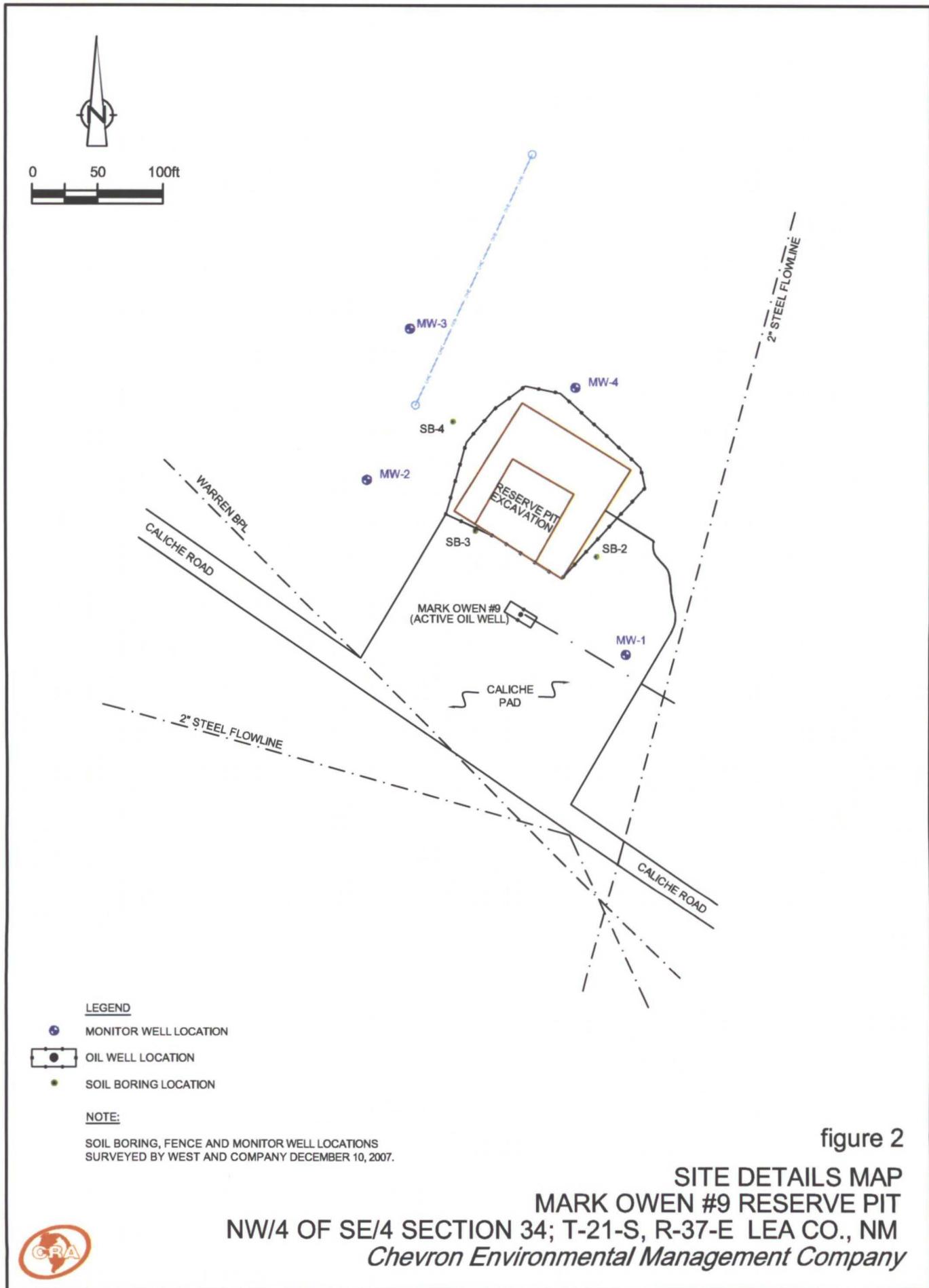


CONTOUR INTERVAL 5 FEET

**SITE LOCATION MAP**  
**MARK OWEN #9 RESERVE PIT**  
**NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM**  
*Chevron Environmental Management Company*



figure 1



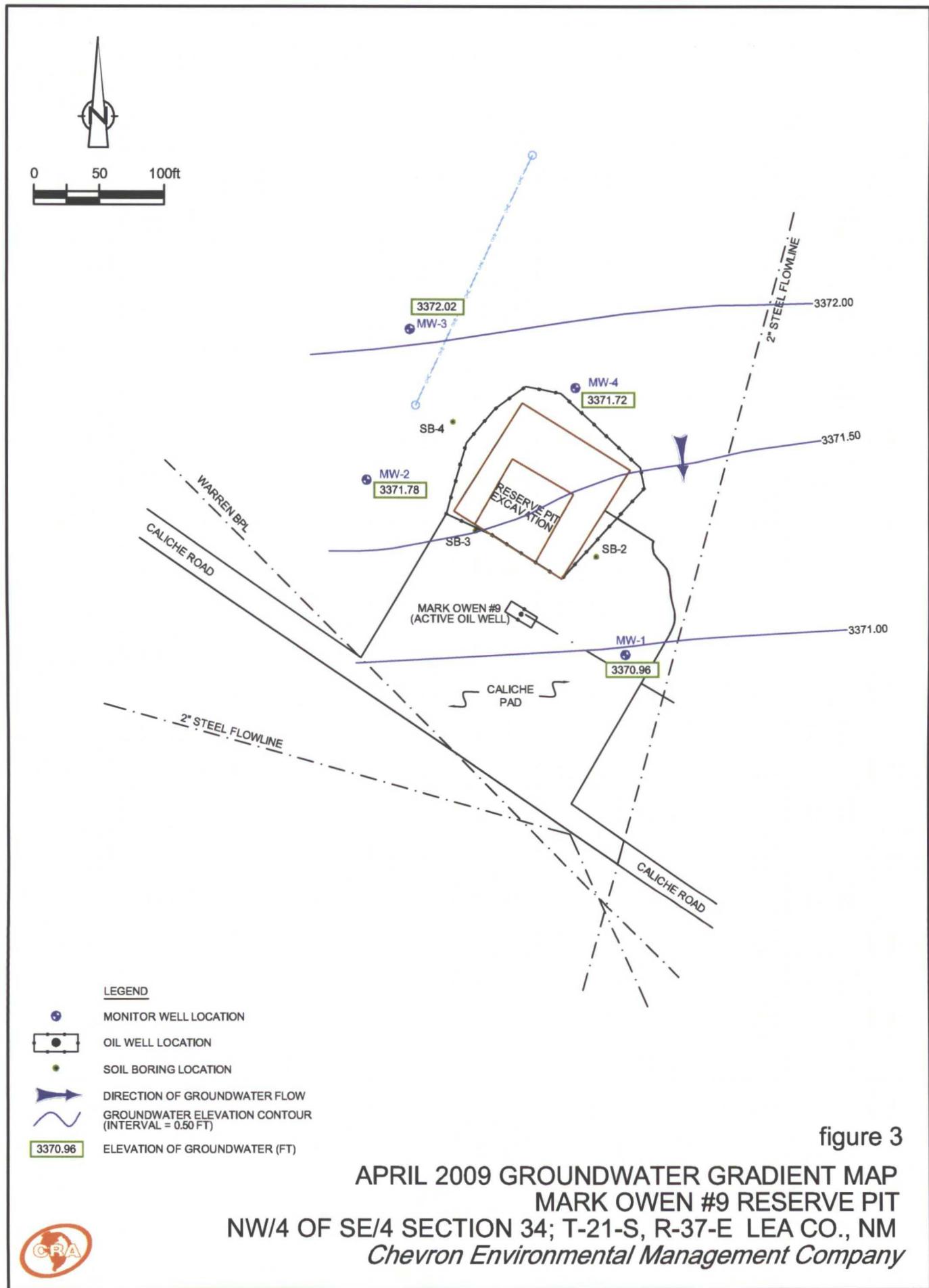
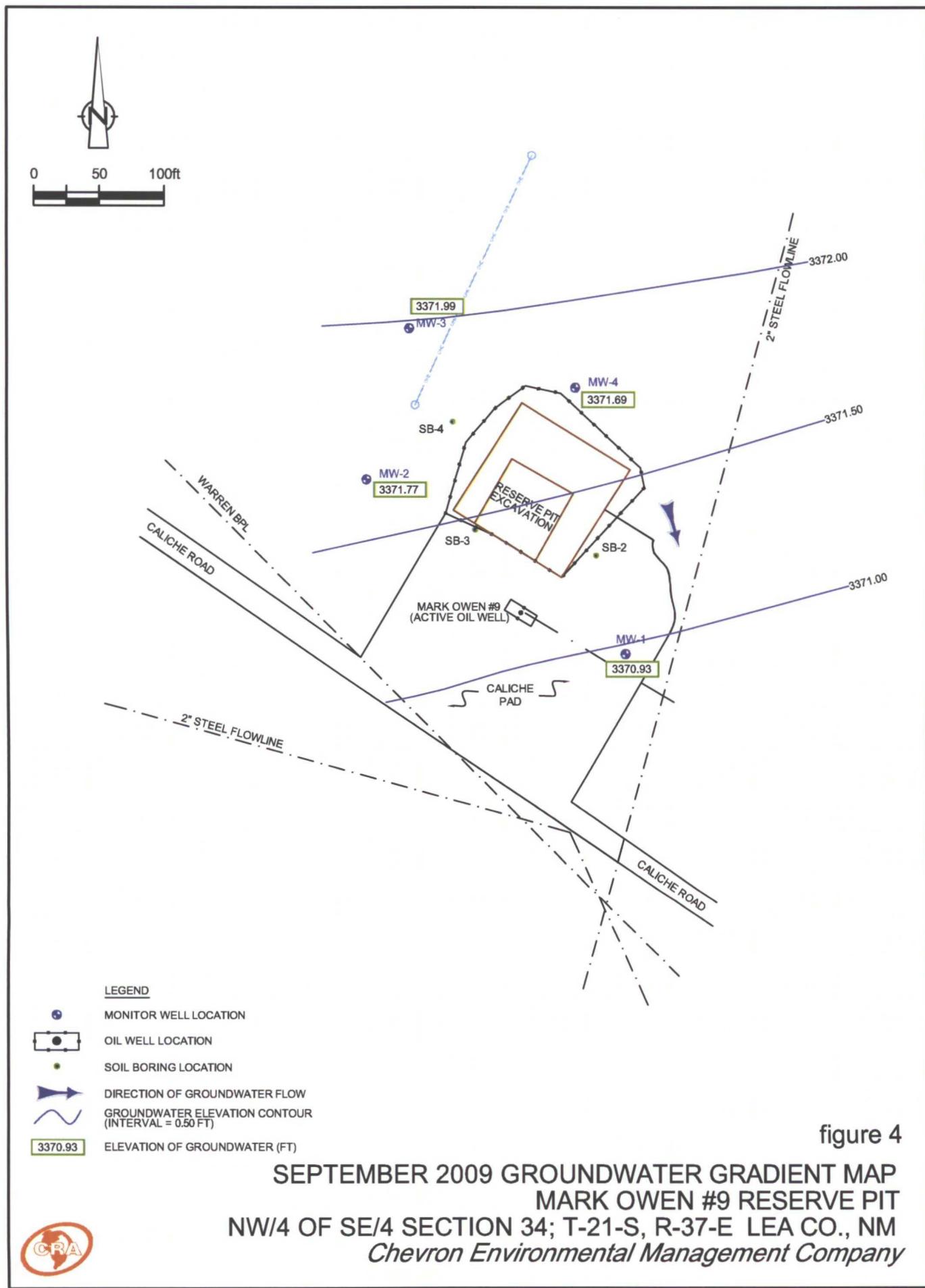
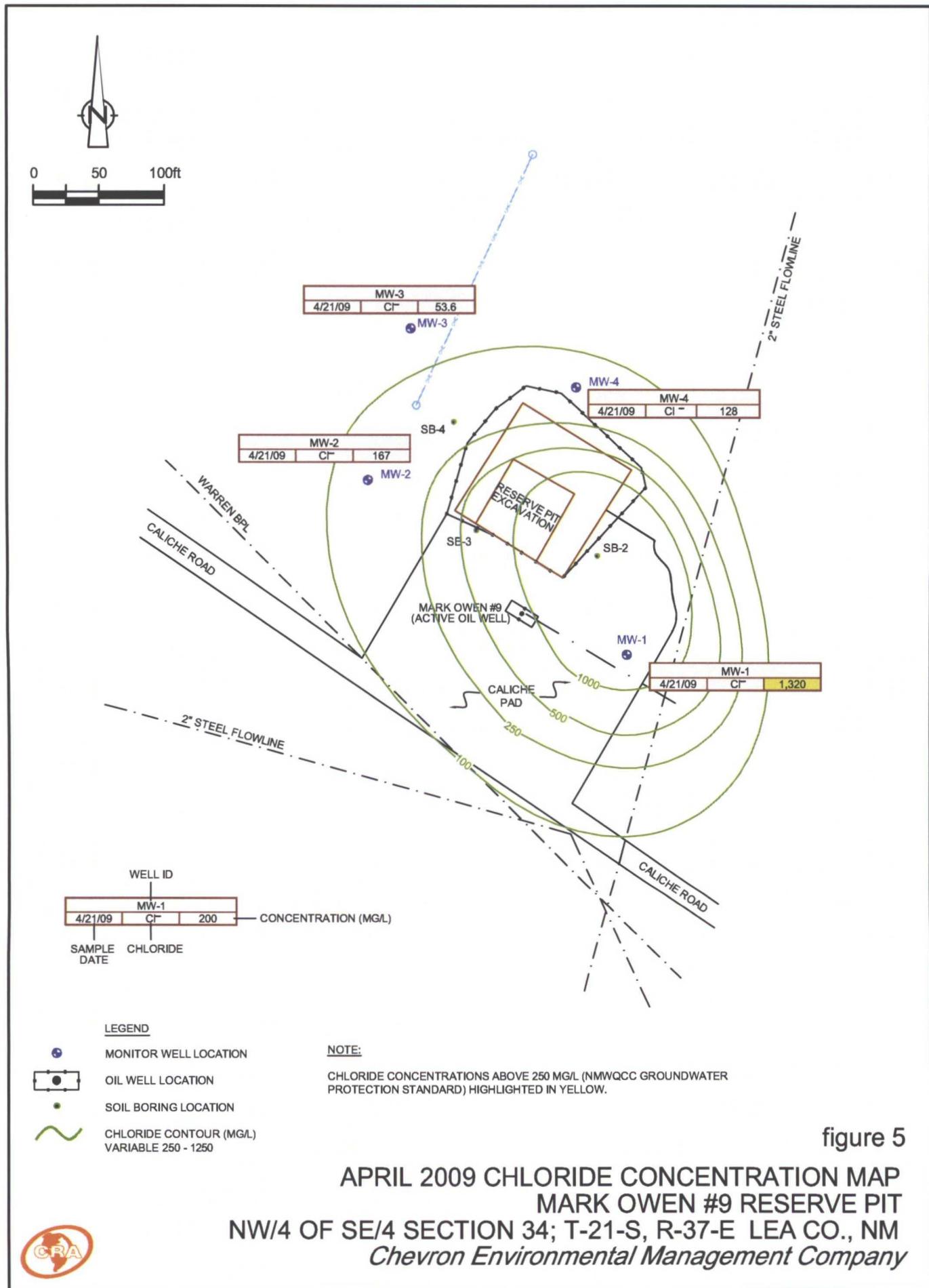


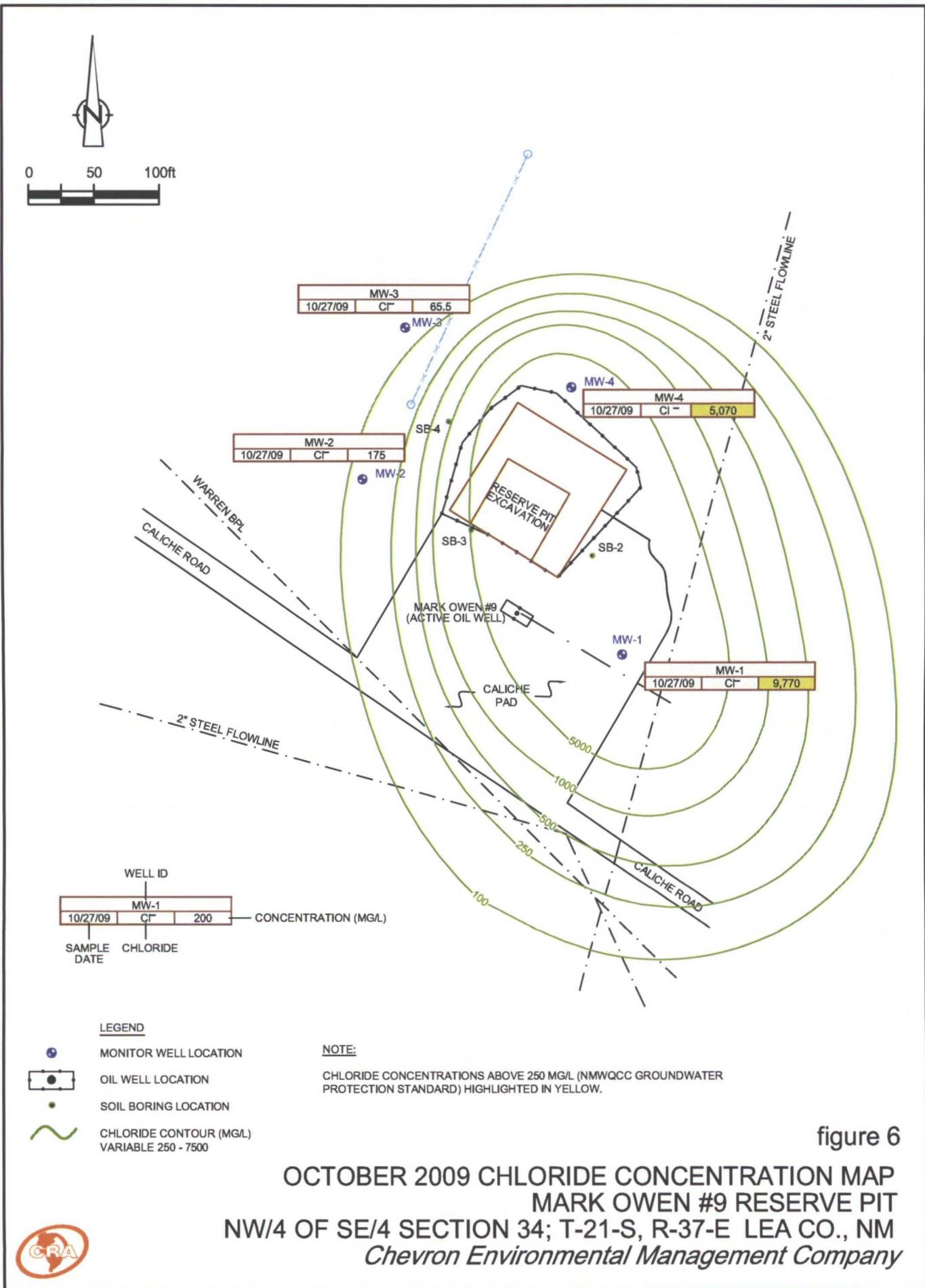
figure 3

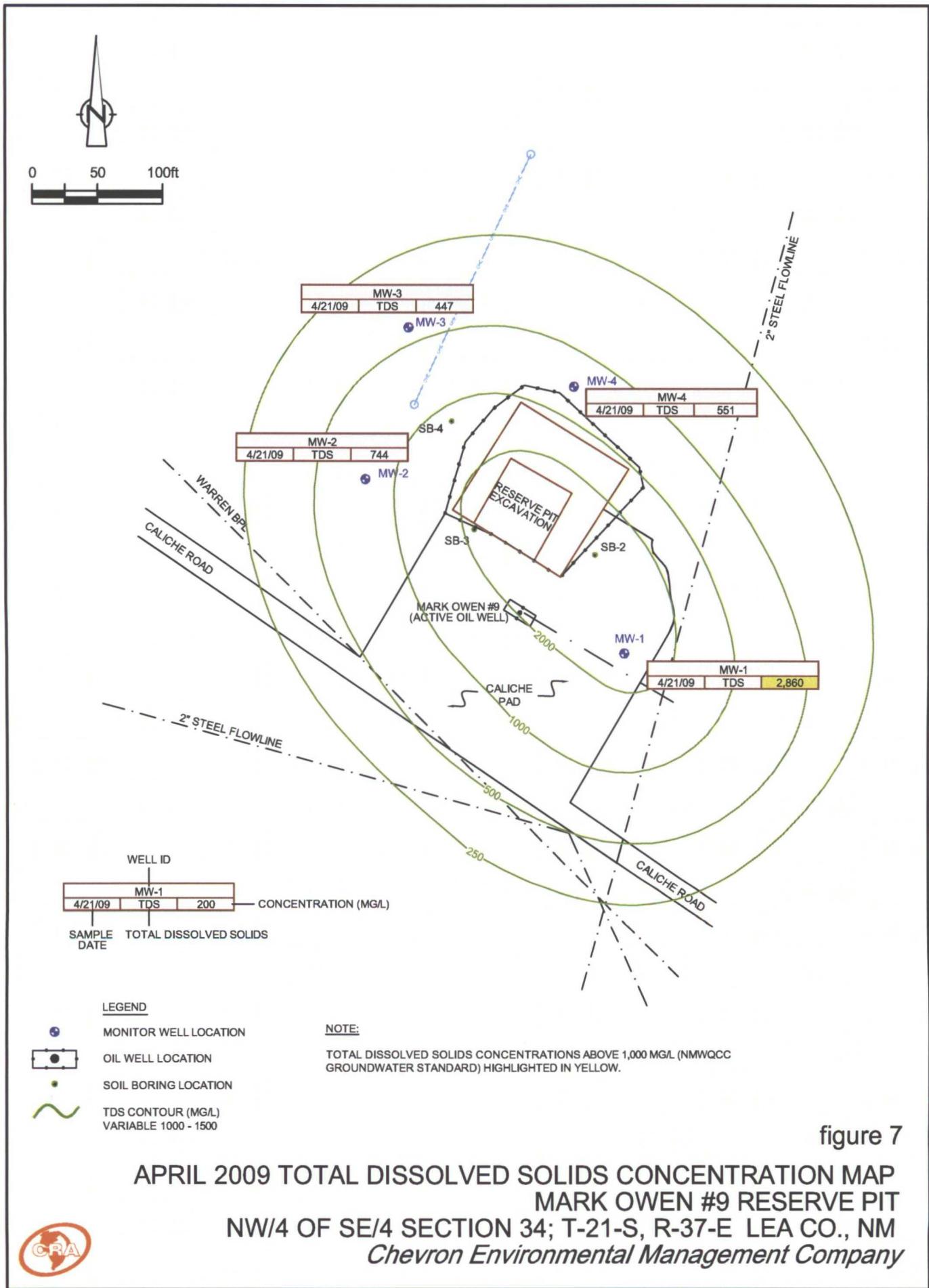
APRIL 2009 GROUNDWATER GRADIENT MAP  
MARK OWEN #9 RESERVE PIT  
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM  
*Chevron Environmental Management Company*

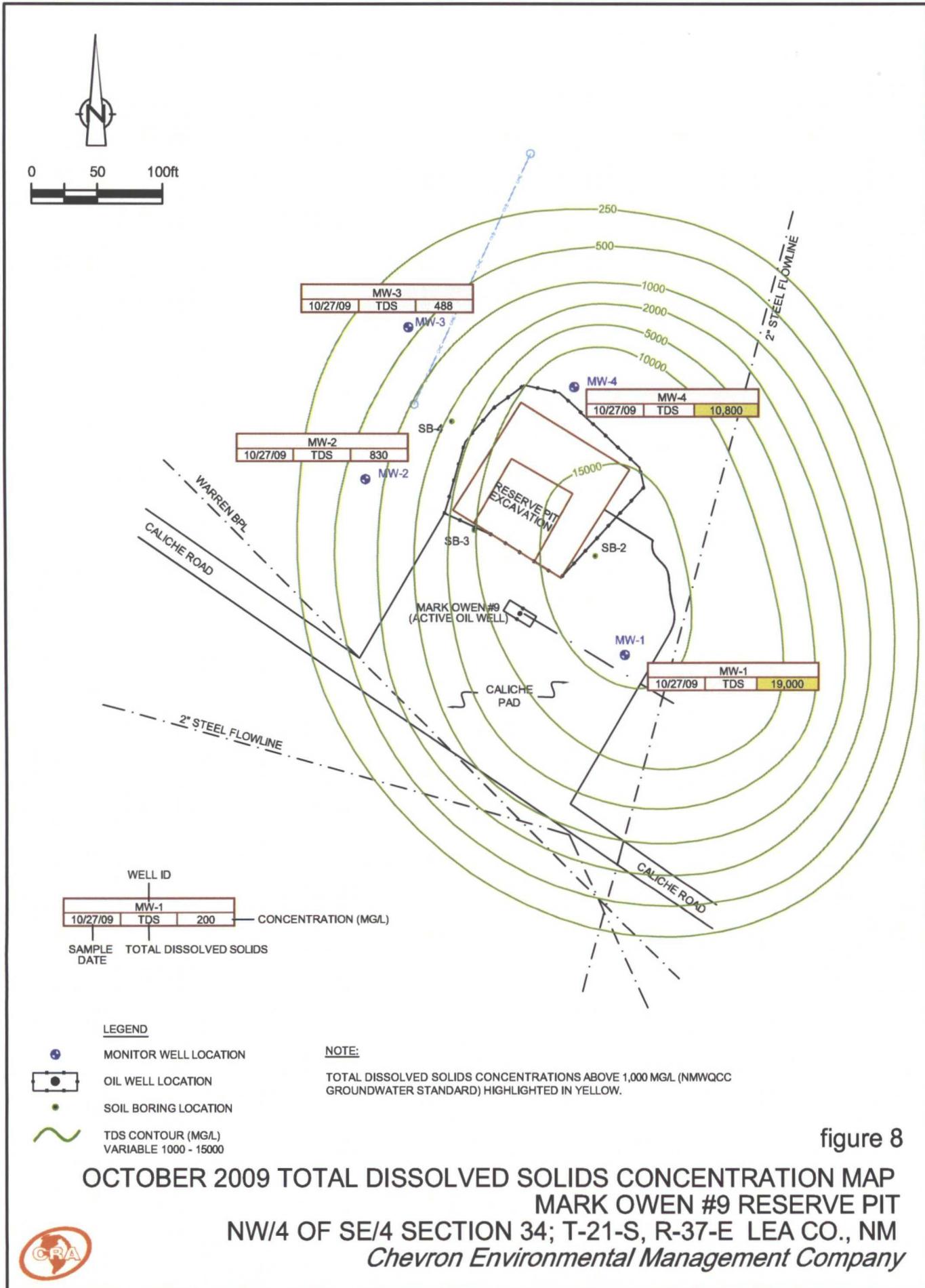












**TABLE I**  
**GROUNDWATER GAUGING SUMMARY**  
**CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY**  
**OWEN #9 RESERVE PIT RELEASE**  
**NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST**  
**LEA COUNTY, NEW MEXICO**

WELL TOC elev <sup>1</sup>	DATE	Well Diameter (inches)	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL <sup>2</sup> )	Screen interval (bgs <sup>3</sup> )
MW-01 3,403.68	11/1/2007	4	54.00	32.55	---	---	3371.13	16'-51'
	4/25/2008		54.03	32.60	---	---	3371.08	
	9/16/2008			32.81	---	---	3370.87	
	4/20/2009		55.00	32.72	---	---	3370.96	
	10/26/2009		54.10	32.75	---	---	3370.93	
	2/25/2010		53.90	32.68	---	---	3371.00	
MW-02 3,408.23	11/1/2007	4	60.00	36.24	---	---	3371.99	22'-57'
	4/25/2008		60.29	36.40	---	---	3371.83	
	9/16/2008			36.48	---	---	3371.75	
	4/20/2009		60.22	36.45	---	---	3371.78	
	10/26/2009		60.30	36.46	---	---	3371.77	
	2/25/2010		61.25	36.42	---	---	3371.81	
MW-03 3,407.04	11/1/2007	4	56.50	34.69	---	---	3372.35	19'-54'
	4/25/2008		57.55	34.89	---	---	3372.15	
	9/16/2008			35.00	---	---	3372.04	
	4/20/2009		57.51	35.02	---	---	3372.02	
	10/26/2009		57.44	35.05	---	---	3371.99	
	2/25/2010		58.60	34.88	---	---	3372.16	
MW-04 3,404.74	11/1/2007	4	54.00	32.69	---	---	3372.05	16'-51'
	4/25/2008		54.22	32.83	---	---	3371.91	
	9/16/2008			33.02	---	---	3371.72	
	4/20/2009		54.23	33.02	---	---	3371.72	
	10/26/2009		54.25	33.05	---	---	3371.69	
	2/25/2010		54.92	33.00	---	---	3371.74	

Notes:

<sup>1</sup>TOC - Top of Casing<sup>2</sup>MSL - Mean Sea Level<sup>3</sup>BGS - Below ground surface

Professional Survey conducted by West Company of Midland, Inc. on December 10, 2007.

TABLE II

**GROUNDWATER ANALYTICAL SUMMARY - BTEX AND TPH**  
**CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY**  
**OWEN #9 RESERVE PIT RELEASE**  
**NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH			
		GRO	DRO	Total					
New Mexico Water Quality Control Commission Standard									
		0.01	0.75	0.75	0.62	—	—	—	
MW-1	11/1/07	<0.00006	<0.0001	<0.00012	<0.00021	<0.02014	<0.36	<0.38014	
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024	
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	0.25	0.25	
	4/21/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	4/21/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	10/27/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
DUP	2/25/10	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	2/25/10	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	New Mexico Water Quality Control Commission Standard								
		0.01	0.75	0.75	0.62	—	—	—	
	MW-2	11/1/07	<0.00006	0.00035J	<0.00012	<0.00021	<0.02014	1.8	1.82014
		4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
MW-3	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	0.07	0.070	
	4/21/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	10/27/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	2/25/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	11/1/07	<0.00006	0.0005J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014	
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024	
MW-4	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	0.073	0.073	
	4/21/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	10/27/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	2/25/10	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	11/1/07	<0.00006	0.00052J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014	
	DUP	11/1/07	<0.00006	0.00054J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014
DUP	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024	
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024	
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	0.052	0.052	
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	0.052	0.052	
	4/21/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	10/27/09	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	
	2/25/10	<0.0002	<0.0002	<0.0002	<0.0006	NA	NA	NA	

**Notes:**

- 1) Bold concentrations above lab reporting limits.
- 2) BTEX analysis by EPA Method 8021B
- 3) TPH (GRO/DRO) analysis by EPA Method 8015 Modified.
- 4) Results shown in mg/L
- 5) J = estimated value between RL & MDL
- 6) DUP = Duplicate sample

TABLE III

**GROUNDWATER ANALYTICAL SUMMARY - BTEX AND TPH**  
**CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY**  
**OWEN #9 RESERVE PIT RELEASE**  
**NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST**  
**LEA COUNTY, NEW MEXICO**

Sample I.D.	Date No.	RCRA Metals						Groundwater Quality				NMWQCC Other Standards for Domestic Water Supply <sup>2</sup>	
		Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Total Alkalinity (CaCO <sub>3</sub> ) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	
<b>NMWQCC Human Health Standards for Groundwater<sup>1</sup></b>													
MW-1	11/01/07	0.0144B	0.0839	<0.00073	<0.00155	<0.0021	<0.0021	<0.00053	0.00752B	<0.00125	201	321	84.4 mg/L
	04/25/08	0.0118B	0.127	<0.00073	0.0036B	<0.0021	<0.0021	<0.00066	0.00536B	<0.00125	167	623	124 mg/L
	09/16/08	0.014	0.40	<0.002	0.0024B	<0.003	<0.0002	0.0072	<0.005	146	1590	154	3,620 mg/L
DUP	04/21/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	212	1,320	2,860 mg/L
	04/21/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	1,740	181 mg/L
	10/27/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	126	9,770	297 mg/L
	02/25/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	163	5,210	207 mg/L
	02/25/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	163	5,320	204 mg/L
MW-2	11/01/07	0.0123B	0.0979	<0.00073	<0.00155	<0.0021	<0.0021	<0.00053	0.00403B	<0.00125	187	200	72.4 mg/L
	04/25/08	0.0133B	0.0992	<0.00073	0.00186B	<0.0021	<0.0021	<0.00066	0.00315B	<0.00125	174	190	72.9 mg/L
	09/16/08	0.012	0.12B	<0.002	0.0056	<0.003	<0.0002	0.006	<0.005	NA	181	182	91.9 mg/L
DUP	04/21/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	203	167	172 mg/L
	10/27/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	205	175	163 mg/L
	02/25/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	224	167	193 mg/L
MW-3	11/01/07	0.0185B	0.102	<0.00073	<0.00155	<0.0021	<0.0021	<0.00053	0.00282B	<0.00125	212	77	40.6 mg/L
	04/25/08	0.0218	0.0882	<0.00073	0.00178B	<0.0021	<0.0021	<0.00066	<0.00203	<0.00125	206	99.3	49.9 mg/L
	09/16/08	0.026	0.096B	<0.002	<0.005	NA	NA	NA	<0.002	<0.005	NA	222	63.7 mg/L
DUP	04/21/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	229	53.6	31.8 mg/L
	10/27/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	223	65.5	32.2 mg/L
	02/25/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	231	62.7	35.5 mg/L
												34.8	46.7 mg/L

Sample I. D.	Date	Groundwater Quality						Total Dissolved Solids (mg/L)
		Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	
<b>MW-4</b>	11/01/07	0.0203	0.117	<0.00073	<0.00205	<0.0021	<0.000053	180
DUP	11/01/07	0.0176B	0.116	<0.00073	<0.00155	<0.0021	<0.000053	12,100
DUP	04/25/08	0.0206	0.0856	<0.00073	<0.00155	<0.0021	0.00246B	189
DUP	04/25/08	0.0203	0.0858	<0.00073	<0.00158	<0.0021	0.00316B	12,800
DUP	09/16/08	0.018	0.092B	<0.002	<0.005	<0.003	<0.000066	163
DUP	09/16/08	0.019	0.088B	<0.002	<0.005	<0.003	<0.0002	NA
DUP	04/21/09	NA	NA	NA	NA	NA	<0.000203	NA
DUP	10/27/09	NA	NA	NA	NA	NA	<0.0002	NA
DUP	10/27/09	NA	NA	NA	NA	NA	<0.0002	NA
DUP	02/25/10	NA	NA	NA	NA	NA	<0.0002	NA

Notes:

- 1) RCRA Metals Analysis by EPA Methods 6010B and 7470A.
- 2) Groundwater Quality by EPA Methods 160.1, 300.0, and 310.1.
- 3) Bold concentrations above lab reporting limits.
- 4) Highlighted concentrations above NMWQCC Other Standards for Domestic Water Supply.
- 5) <sup>1</sup> NMWQCC Human Health Standards Per NMAC 20.6.2.3103A

6) <sup>2</sup> NMWQCC Other Standards for Domestic Water Supply Per NMAC 20.6.2.3103B

7) B = estimated value between RL &amp; MDL

8) NA = Not analyzed

9) DUP = Duplicate sample

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

JOB NUMBER: 353368  
Project ID: MARK OWN 9

Prepared For:

Congestoga Rovers and Associates  
2270 Springlake Road  
Suite 600  
Dallas, TX 75234

Attention: Arthur Greeley

Date: 05/08/2000

Signature

05/08/00

Date

Name: Sachin G. Kudchadkar

TestAmerica Laboratories, Inc  
6310 Rothway Drive  
Houston, TX 77040

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

PHONE: 713-690-4444

TOTAL NO. OF PAGES

49

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

05/08/2008

Arthur Greeley  
Conestoga-Rovers and Associates  
2270 Springlake Road  
Suite 800  
Dallas, TX 75234

Reference:

Project : MARK OWEN 9  
Project No. : 353368  
Date Received : 04/29/2008  
TestAmerica Job : 353368

Dear Arthur Greeley:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. MW142508
2. MW242508
3. MW342508
4. MW442508
5. DUP42508
6. TRIP
7. TRIP

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for TestAmerica Houston's NELAP accredited parameters. Any exceptions to the NELAP requirements will be flagged accordingly and where applicable, included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time. We look forward to working with you on future projects.

Sincerely,



Sachin G. Kudchadkar  
Project Manager

S A M P L E D A T A M A T C H O

Date: 05/08/2008

Job Number.: 353368  
 Customer...: Conestoga-Rovers and Associates  
 Attn.....: Arthur Greeley

Project Number.....: 99007656  
 Customer Project ID....: MARK OWEN 9  
 Project Description....: Mark Owen 9

Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time received
353368-1	MW142508	Water	04/25/2008	11:55	04/29/2008	10:19
353368-2	MW242508	Water	04/25/2008	12:45	04/29/2008	10:19
353368-3	MW342508	Water	04/25/2008	13:30	04/29/2008	10:19
353368-4	MW442508	Water	04/25/2008	14:20	04/29/2008	10:19
353368-5	DUP42508	Water	04/25/2008	00:00	04/29/2008	10:19
353368-6	TRIP	Water	04/25/2008	00:00	04/29/2008	10:19
353368-7	TRIP	Water	04/25/2008	00:00	04/29/2008	10:19

Job Number: 353368

Date:05/08/2008

## LABORATORY TEST RESULTS

Customer Sample ID: MM42508  
 Date Sampled.....: 06/25/2008  
 Time Sampled.....: 11:55  
 Sample Matrix....: Water

Laboratory Sample ID: 353368-1  
 Date Received.....: 04/29/2008  
 Time Received.....: 10:19

TEST METHOD	PROCEDURE/TEST (REF ID: 10)	RESULT	UNITS	RESULT	UNITS	RESULT	UNITS	RESULT	UNITS	BATCH ID	DATE/TIME TESTED
SH 2320 B	Alkalinity, Total as CaCO <sub>3</sub> , Water	167	mg/L	1.53	5.0	1	mg/L	198199	sng	04/30/08 1610	
SH-846 7470A	Mercury (Hg), Water	0.066	ug/L	0.066	0.20	1	ug/L	198188	dcl	04/30/08 1453	
SH-846 3010A	Acid Digestion, Water	Complete				1	ug/L	198516	rim	05/07/08 0930	
SH-846 8021B	GC Volatile Organics Benzene, Water Toluene, Water Ethylbenzene, Water Xylenes (total), Water	0.37 0.39 0.42 0.35	ug/L ug/L ug/L ug/L	0.37 0.39 0.42 0.35	1.00 1.00 1.00 3.00	1	ug/L	198312 198312 198312 198312	mht mht mht mht	04/30/08 2037 04/30/08 2037 04/30/08 2037 04/30/08 2037	
SH-846 8015B	Total Volatile Petroleum Hydrocarbons TVPN as GRO, Water	50.0	ug/L	50.0	1.0000	1	ug/L	198329	mht	04/30/08 1717	
SHB46 8015	Extraction (Sep Funnel) 8015 Diesel Separatory Funnel Liq/Liq Extraction, Water Chloride, Water Sulfate (SO <sub>4</sub> ), Water	623 124	mg/L mg/L	15 3.4	50 5.0	100 10	mg/L mg/L	198218 198266	mra	04/30/08 1525	
EPA 300.0	Ion Chromatography Analysis	Complete								05/01/08 1923	
SH-846 6010B	Metals Analysis (ICAP Trace) Arsenic (As), Water Barium (Ba), Water Cadmium (Cd), Water Chromium (Cr), Water Lead (Pb), Water	0.0118 0.127 0.00073 0.00360 0.00210	B U B B U	0.00310 0.00160 0.00073 0.00155 0.00210	0.020 0.020 0.005 0.010 0.010	1 1 1 1 1	mg/L mg/L mg/L mg/L mg/L	198588 198588 198588 198588 198588	sur sur sur sur sur	05/08/08 0859 05/08/08 0859 05/08/08 0859 05/08/08 0859 05/08/08 0859	

\* In Description = Dry wt.

Job Number: 353368

Date: 05/08/2008

LABORATORY TEST RESULTS

CUSTOMER CODES: 353368-1  
Customer Sample ID: MN142508  
Date Sampled.....: 04/25/2008  
Time Sampled....: 11:55  
Sample Matrix....: Water

Laboratory Sample ID: 353368-1  
Date Received.....: 04/29/2008  
Time Received.....: 10:19

TEST SECTION: PARAMETER/TEST DESCRIPTION  
SU-846 8015B Selenium (Se), Water  
Silver (Ag), Water  
Total Extractable Petroleum Hydrocarbons  
[TEPH] - as Diesel, Water

TEST SECTION	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	METHOD	TEST SECTION	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	METHOD
		0.00536 0.00125	mg/L mg/L	SRP SRP			0.00203 0.00125	mg/L mg/L	SRP SRP
		0.024	mg/L	jps			0.040 0.010	mg/L mg/L	05/08/08 0859 05/08/08 0859

\* In Description = Dry Wgt.

Job Number: 353368

## LABORATORY TEST RESULTS

Date: 05/08/2008

Customer Sample ID: MU242508  
Date Sampled.....: 04/25/2008  
Time Sampled.....: 12:45  
Sample Matrix....: Water

## PROJECT WORK ORDER

ANALYST: Arthur G. Coker

Customer Sample ID: 353368-2  
Date Received.....: 04/29/2008  
Time Received.....: 10:19

TEST NUMBER	PARAMETER TEST DESCRIPTION	SAMPLE SIZE	TEST	RESULT	UNITS	BATCH ID	DATE/TIME	TECH
SM 2320-B	Alkalinity, Total as CaCO <sub>3</sub> , Water	174		1.53	5.0	1	198199	04/30/08 16:10
SW-846 7470A	Mercury (Hg), Water	0.066		0.20	1	ug/L	198188	04/30/08 15:04
SW-846 3010A	Acid Digestion, Water		Complete		1	ug/L	198516	05/07/08 09:30
SW-846 80218	GC Volatile Organics Benzene, Water Toluene, Water Ethylbenzene, Water Xylenes (total), Water	0.37 0.39 0.42 0.35		1.00 1.00 1.00 3.00	1.0000 1.0000 1.0000 1.0000	ug/L ug/L ug/L ug/L	198312 198312 198312 198312	04/30/08 2057 mht 04/30/08 2057 mht 04/30/08 2057 mht 04/30/08 2057 mht
SW-846 80158	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Water	50.0		50.0	1.0000	ug/L	198529	04/30/08 17:43 mht
SW-846 8015	Extraction (Sep Funnel) 8015 Diesel Separatory Funnel Liq/Liq Extraction, Water Chloride, Water Sulfate (SO <sub>4</sub> ), Water	190 72.9	Complete		1	mg/L mg/L	198218	04/30/08 15:25 mra
EPA 300.0	Ion Chromatography Analysis				10	mg/L	198266	05/01/08 19:55 sur
SW-846 6010B	Metals Analysis (ICAP Trace) Arsenic (As), Water Barium (Ba), Water Cadmium (Cd), Water Chromium (Cr), Water Lead (Pb), Water	0.0133 0.0992 0.0073 0.00186 0.00210		0.020 0.020 0.005 0.010 0.010	1 1 1 1 1	mg/L mg/L mg/L mg/L mg/L	198588 198588 198588 198588 198588	05/08/08 09:03 srp

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS									
CUSTOMER/CONTRACTOR/TEST ASSOCIATE		PROJECT NUMBER		TEST NUMBER		TEST DATE		TEST NUMBER	
Job Number:	353368	Date Sampled.....:	04/25/2008	Test ID:	SH-046 80158	Test Date:	05/02/08	Test ID:	SH-046 80158
Laboratory Sample ID:	353368-2	Date Received.....:	04/29/2008	Time Received.....:	10:19				
Customer Sample ID:	MW242508	Date Sampled.....:	04/25/2008	Time Sampled.....:	12:45	Sample Matrix.....:	Water		
Parameter/TEST DESCRIPTION		TEST NUMBER	TEST DATE	TEST NUMBER	TEST DATE	TEST NUMBER	TEST DATE	TEST NUMBER	TEST DATE
Selenium (Se), Water Silver (Ag), Water	0.00315 0.00125	B U	05/02/08 05/02/08	0.00203 0.00125	B U	0.040 0.010	05/08/08 05/08/08	198588 198588	05/08/08 05/08/08
Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U	05/02/08	0.024	U	0.24	05/02/08	198578	1202 JPS

\* In Decrption = Dry Wgt.



Job Number: 353368

Date:05/08/2008

**LABORATORY TEST RESULTS**

CUSTOMER: Conoco Phillips and Associates  
 Customer Sample ID: NJ342508  
 Date Sampled.....: 06/25/2008  
 Time Sampled.....: 13:30  
 Sample Matrix....: Water

Laboratory Sample ID: 353368-3  
 Date Received.....: 04/29/2008  
 Time Received.....: 10:19

TEST/ITEM	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REF.	RL	DILUTION	UNITS	BATCH #	DATE / TIME	TECH
	Selenium (Se), Water Silver (Ag), Water	0.00203 0.00125	U	0.00203 0.00125	1 1	mg/L mg/L	198588 198588	05/08/08 0907 05/08/08 0907	srp srp
SI-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U	0.024	0.24	1	mg/L	198378	jps

\* In Description = Dry Wgt.

Job Number: 353368

## LABORATORY TEST RESULTS

Date: 05/08/2008

## TESTS CONDUCTED &amp; ASSOCIATED PROJECT NUMBER

Customer Sample ID: MW42508  
 Date Sampled.....: 04/25/2008  
 Time Sampled.....: 14:20  
 Sample Matrix.....: Water

Laboratory Sample ID: 353368-4  
 Date Received.....: 04/29/2008  
 Time Received.....: 10:19

TEST METHOD	PARAMETER TEST DESCRIPTION	SAMPLE RESULT	UNITS	METHOD	TESTER	BATCH	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO <sub>3</sub> , Water	195	5.0			198199	04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	0.20			198188	04/30/08 1507	dcl
SW-846 3010A	Acid Digestion, Water			Complete		198516	05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics Benzene, Water Toluene, Water Ethylbenzene, Water Xylenes (total), Water	0.37 0.39 0.42 0.35	1.00 1.00 1.00 3.00			198312	04/30/08 2138	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Water	50.0	1.0000			198329	04/30/08 1835	mht
SWB46 8015	Extraction (Sep Funnel) 8015 Diesel Separatory Funnel Liq/Liq Extraction, Water			Complete		198218	04/30/08 1525	bra
EPA 300.0	Ion Chromatography Analysis Chloride, Water Sulfate (SO <sub>4</sub> ), Water	5680 163	100 1.7	200 2.5		198333 198286	05/02/08 1652 05/01/08 2144	sur sur
SW-846 6010B	Metals Analysis (ICAP Trace) Arsenic (As), Water Barium (Ba), Water Cadmium (Cd), Water Chromium (Cr), Water Lead (Pb), Water	0.0206 0.0856 0.00073 0.00155 0.00210	0.00310 0.00160 0.00073 0.00155 0.00210	0.020 0.020 0.005 0.010 0.010	1 1 1 1 1	198588 198588 198588 198588 198588	05/08/08 0910 05/08/08 0910 05/08/08 0910 05/08/08 0910 05/08/08 0910	srp srp srp srp srp

\* In Description = Dry wt.

Job Number: 353368

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

Date: 05/08/2008

Customer Sample ID: MW442508  
Date Sampled.....: 04/25/2008  
Time Sampled....: 14:20  
Sample Matrix...: Water

PROJECT: MARK ONE

Laboratory Sample ID: 353368-4  
Date Received.....: 06/29/2008  
Time Received.....: 10:19

TEST ID	DIAMETER TEST DESCRIPTION	SAMPLE RESULT	UNITS	TEST ID	DIAMETER	UNITS	TEST ID
SH-846 8015B	Selenium (Se), Water Silver (Ag), Water	0.00316 0.00125	B U	SH-846 8015B	0.00203 0.00125	mg/L mg/L	199588 199588
	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U		0.026	0.24	199378

TEST ID	DIAMETER TEST DESCRIPTION	SAMPLE RESULT	UNITS	TEST ID	DIAMETER	UNITS	TEST ID
		0.00316	B	SH-846 8015B	0.00203	mg/L	199588
		0.00125	U		0.00125	mg/L	199588
							05/08/08 0910 srP
							05/08/08 0910 srP
							05/02/08 1330 jps

\* In Description = Dry Wgt.

Job Number: 353368

## LABORATORY TEST RESULTS

Date: 05/08/2008

Customer Sample ID: DUP42508  
 Date Sampled.....: 04/25/2008  
 Time Sampled....: 00:00  
 Sample Matrix....: Water

PROJECT NAME: 353368-5  
ITEM: ARKLE TRUCK

Laboratory Sample ID: 353368-5  
 Date Received.....: 04/29/2008  
 Time Received.....: 10:19

TEST NUMBER	TEST DESCRIPTION	SAMPLE RESULT	TEST NO.	REF.	DILUTION	UNITS	BATCH	DATE	TIME	TECH
SM 2320-B	Alkalinity, Total as CaCO <sub>3</sub> , Water	191	1.53	5.0	1	mg/L	198199	04/30/08	1610	smg
SW-846 7470A	Mercury (Hg), Water	0.066	0.066	0.20	1	ug/L	198188	04/30/08	1509	dcl
SW-846 3010A	Acid Digestion, Water	Complete			1		198516	05/07/08	0930	rim
SW-846 8021B	GC Volatile Organics									
	Benzene, Water	0.37	0.37	1.00	1.0000	ug/L	198312	04/30/08	2158	mt
	Toluene, Water	0.39	0.39	1.00	1.0000	ug/L	198312	04/30/08	2158	mt
	Ethylbenzene, Water	0.42	0.42	1.00	1.0000	ug/L	198312	04/30/08	2158	mt
	Xylenes (total), Water	0.35	0.35	3.00	1.0000	ug/L	198312	04/30/08	2158	mt
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Water	50.0	50.0	1.0000	ug/L	198329	04/30/08	1901	mt	
SW-846 8015	Extraction (Sep Funnel) 8015 Diesel Separatory Funnel Lig/Liq Extraction, Water	Complete			1		198218	04/30/08	1525	mt
EPA 300.0	Ion Chromatography Analysis Chloride, Water	5540	30	100	200	mg/L	198333	05/02/08	1708	sur
	Sulfate (SP6), Water	163	1.7	2.5	5	mg/L	198266	05/01/08	2231	sur
SW-846 6010B	Metals Analysis (ICAP Trace)									
	Arsenic (As), Water	0.0203	0.00310	0.020	1	ug/L	198588	05/08/08	0914	sTP
	Barium (Ba), Water	0.0858	0.00160	0.020	1	ug/L	198588	05/08/08	0914	sTP
	Cadmium (Cd), Water	0.00073	0.00073	0.005	1	ug/L	198588	05/08/08	0914	sTP
	Chromium (Cr), Water	0.00158	0.00155	0.010	1	ug/L	198588	05/08/08	0914	sTP
	Lead (Pb), Water	0.00210	0.00210	0.010	1	ug/L	198588	05/08/08	0914	sTP

\* In Description = Dry Wgt.

Job Number: 353368

LABORATORY TEST RESULTS

Date:05/08/2008

CUSTOMER: Conestoga Water and Associates  
PROJECT: WMA CHEM  
CUSTID#:

Customer Sample ID: DUP42508  
Date Sampled: 04/25/2008  
Time Sampled: 00:00  
Sample Matrix: Water

Laboratory Sample ID: 353368-5  
Date Received: 04/29/2008  
Time Received: 10:19

TEST/ITEM	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	TEST/ITEM	SAMPLE RESULT	UNITS	TEST/ITEM	SAMPLE RESULT	UNITS
	Selenium (Se), Water	0.00203	mg/L		0.00203	mg/L		198588	mg/L
	Silver (Ag), Water	0.00125	mg/L		0.00125	mg/L		198588	mg/L
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	mg/L		0.024	mg/L		198378	mg/L

TEST/ITEM	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	TEST/ITEM	SAMPLE RESULT	UNITS	TEST/ITEM	SAMPLE RESULT	UNITS
					0.040	mg/L		05/08/08	0914
					0.010	mg/L		05/08/08	0914
								05/08/08	0914
								05/02/08	1414
									jps

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS		Date:05/08/2008						
Customer Sample ID: 353368-6								
Date Received.....: 04/29/2008								
Time Received.....: 10:19								
TEST	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	MINIMUM	MAXIMUM	DATE TESTED	TIME TESTED	
SH-846 8021B	GC Volatile Organics Benzene, Water Toluene, Water Ethylbenzene, Water Xylenes (total), Water	0.37 0.39 0.42 0.35	ug/L	1.00 1.00 1.00 3.00	1.0000 1.0000 1.0000 1.0000	198508 198508 198508 198508	05/05/08 05/05/08 05/05/08 05/05/08	1541 1541 1541 1541

Page 12

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS									
Customer Sample ID: TRIP Date Sampled.....: 04/25/2008 Time Sampled.....: 00:00 Sample Matrix....: Water									
Laboratory Sample ID: 353368-7 Date Received.....: 04/29/2008 Time Received.....: 10:19									
TEST METHOD	NAME BY TEST DESCRIPTION	SAMPLE RESULT	TEST UNIT	TEST DATE	TEST UNIT	TEST DATE	TEST UNIT	TEST DATE	TEST UNIT
SW-846 8021B	GC Volatile Organics Benzene, Water Toluene, Water Ethylbenzene, Water Xylenes (total), Water	0.37 0.39 0.42 0.35	ug/L ug/L ug/L ug/L	198508 198508 198508 198508	1.00 1.00 1.00 3.00	1.0000 1.0000 1.0000 1.0000	1601 1601 1601 1601	05/05/08 05/05/08 05/05/08 05/05/08	kp kp kp kp

\* In Description = Dry wgt.

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: MARK-OPENING

ATTN: ARTHUR Greetley

TEST Method: ASTM D2820-B

Method Description: Alkalinity

Parameter: Alkalinity, total as CaCO<sub>3</sub>Units: mg/L CaCO<sub>3</sub>

Batch(s): 198199

Analyst: J. D. B.

Test Code: 100

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
LCS	198199--21	WC4050	946.15		1000.0		94.6	90.0-110.		04/30/2008	1610
MB	198199--21		1.89							04/30/2008	1610
DU	353184-1		145.71			147.60	1.3	20		04/30/2008	1610
MS	353217-7	WC4081A	6133.55		2500.000000	3397.04	109.5	75-125		04/30/2008	1610
MS	353184-1	WC4081A	386.03		250.000000	147.60	95.4	75-125		04/30/2008	1610
DU	353217-7		3491.40			3397.04	2.7	20		04/30/2008	1610

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Comestode Kovers and Associates

PROJECT: MARY GREGORY

ANALYST: Arthur Greaney

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst...: mht

Method Description.: GC Volatile Organics

Batch(s)...: 198312 198508

QC Type	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
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Methyl tert-Butyl ether, Water	48.0823		50.000000		96.2		76-123	
Benzene, Water	49.3421		50.000000		98.7		72-134	
Toluene, Water	49.4295		50.000000		98.9		76-131	
m,p-Xylene, Water	101.555		100.000000		101.6		75-130	
o-Xylene, Water	49.9172		50.000000		99.8		74-129	
Tert-Butyl Methyl Ether Column B, Water	51.6230		50.000000		103.2		76-123	
Benzene Column B, Water	48.2784		50.000000		96.6		72-134	
Toluene Column B, Water	50.2770		50.000000		100.6		76-131	
m,p-Xylene Column B, Water	102.488		100.000000		102.5		75-130	
o-Xylene Column B, Water	51.1847		50.000000		102.4		74-129	

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

QC Type	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
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Methyl tert-Butyl ether, Water	144.359		50.000000	ND	289		70-130	A
Benzene, Water	48.0221		50.000000	ND	96		70-130	
Toluene, Water	45.2149		50.000000	ND	90		70-130	
Ethylbenzene, Water	43.6703		50.000000	ND	87		70-130	
m,p-Xylene, Water	87.7466		100.000000	ND	88		70-130	
o-Xylene, Water	44.6508		50.000000	ND	89		70-130	
Xylenes (total), Water	134.2354		150.000000	0.0000	89		70-130	
Total BTEX, Water	272.5847		300.000000	0.0000	91		70-130	
Tert-Butyl Methyl Ether Column B, Water	149.890		50.000000	ND	300		70-130	A
Benzene Column B, Water	47.3836		50.000000	ND	95		70-130	
Toluene Column B, Water	45.6599		50.000000	ND	91		70-130	
Ethylbenzene Column B, Water	44.6673		50.000000	ND	89		70-130	
m,p-Xylene Column B, Water	89.1339		100.000000	ND	89		70-130	
o-Xylene Column B, Water	45.1015		50.000000	ND	90		70-130	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: MARK OPENING

ATM:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Up, Water	EXS043004	353368		04/30/2008	14:16

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	129.554	144.359	50.000000	ND	259	70-130	A
Benzene, Water	51.6123	48.0221	50.000000	ND	103	70-130	20.0
Toluene, Water	50.1295	45.2149	50.000000	ND	100	70-130	20.0
Ethylbenzene, Water	49.8711	43.6703	50.000000	ND	100	70-130	20.0
m,p-Xylene, Water	98.0510	87.7466	100.000000	ND	98	70-130	20.0
o-Xylene, Water	49.4887	44.6508	50.000000	ND	99	70-130	20.0
Xylenes (total), Water	150.8932	134.2354	150.000000	0.0000	101	70-130	20.0
Total BTEX, Water	304.8096	272.5847	300.000000	0.0000	102	70-130	20.0
Benzene Column B, Water	51.1228	47.3836	50.000000	ND	102	70-130	20.0
Toluene Column B, Water	51.4649	45.6599	50.000000	ND	103	70-130	20.0
Ethylbenzene Column B, Water	50.8392	44.6673	50.000000	ND	102	70-130	20.0
m,p-Xylene Column B, Water	100.305	89.1339	100.000000	ND	100	70-130	20.0
o-Xylene Column B, Water	50.5882	45.1015	50.000000	ND	101	70-130	20.0
					11.5		

MSD	Repository Control Sample	EXS050205B	198408-1		05/05/2008	1500
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	50.4130		50.000000	ND	100.8	76-123	
Benzene, Water	49.2876		50.000000	ND	98.6	72-134	
Toluene, Water	48.7165		50.000000	ND	97.4	76-131	
Ethylbenzene, Water	47.3365		50.000000	0.13881	94.7	75-131	
m,p-Xylene, Water	97.9168		100.000000	0.37042	97.9	75-130	
o-Xylene, Water	48.6170		50.000000	0.15366	97.2	74-129	
Xylenes (total), Water	150.0995		150.000000	0.5241	97.7	70-130	
Total BTEX, Water	297.9304		300.000000	0.5241			
Tert-Butyl Methyl Ether Column B, Water	138.156		50.000000	ND	276.3	76-123	L
Benzene Column B, Water	48.6968		50.000000	ND	97.4	72-134	
Toluene Column B, Water	49.7559		50.000000	ND	99.5	76-131	
Ethylbenzene Column B, Water	48.7874		50.000000	ND	97.6	75-131	
m,p-Xylene Column B, Water	100.564		100.000000	0.30937	100.6	75-130	
o-Xylene Column B, Water	49.5355		50.000000	0.14296	99.1	74-129	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

FURNISHER: Long-Cook-Covers and Associates

PROJECT: BANK OWNERSHIP

MTH

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SSD	Method Blank	BX5043008H	198508-1		05/05/2008	1520

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	ND						
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	0.13881						
m,p-Xylene, Water	0.37042						
o-Xylene, Water	0.15366						
Xylenes (total), Water	0.5241						
Total BTEX, Water	0.5241						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	0.30937						
o-Xylene Column B, Water	0.14296						
Xylenes (Total) Column B, Water	0.45328						

SSD	Spiked Blank	BX5043008A	198508-1		05/05/2008	1641

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	100.093		50.000000	ND	200.2		K
Benzene, Water	48.3794		50.000000	ND	96.8		
Toluene, Water	47.4687		50.000000	ND	94.9		
Ethylbenzene, Water	45.6657		50.000000	0.13881	91.3		
m,p-Xylene, Water	95.2604		100.000000	0.37042	95.3		
o-Xylene, Water	47.3672		50.000000	0.15366	94.7		
Xylenes (total), Water	144.9185		150.000000	0.5241	95.1		
Total BTEX, Water	289.6329		300.000000	0.5241			
Tert-Butyl Methyl Ether Column B, Water	142.551		50.000000	ND	285.1		K
Benzene Column B, Water	48.0042		50.000000	ND	96.0		
Toluene Column B, Water	48.6459		50.000000	ND	97.3		
Ethylbenzene Column B, Water	47.6891		50.000000	ND	95.4		
m,p-Xylene Column B, Water	96.6145		100.000000	0.30937	96.6		
o-Xylene Column B, Water	48.3040		50.000000	0.14296	96.6		

SSD	Spiked Blank Duplicate	BX5043008A	198508-1		05/05/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	97.1134	97.1134	50.000000	ND	194.2	70.0-130.0	
					3.0		
Benzene, Water	48.3049	48.3049	50.000000	ND	96.6	70.0-130.0	
					0.2		
Toluene, Water	47.4577	47.4577	50.000000	ND	94.9	70.0-130.0	
					0.0		
Ethylbenzene, Water	46.8184	46.8184	50.000000	0.13881	93.4	70.0-130.0	
					2.5		
m,p-Xylene, Water	94.2407	94.2407	100.000000	0.37042	93.9	70.0-130.0	
					1.1		
o-Xylene, Water	47.2226	47.2226	50.000000	0.15366	94.1	70.0-130.0	
					0.3		
Xylenes (total), Water	143.6716	143.6716	150.000000	0.5241	94.0	70.0-130.0	
					0.8		

Page 17 \* %REC, R=RPD, A=ABS Diff., D=% Diff.

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

Customer: Conestoga-Rovers and Associates		Project: Wark-Owen-9		Batch:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
SDS	Spiked Blank Duplicate	0X043000A	1985081				05/05/2008 17:01
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Total BTEX, Water	288.4145	288.4145	300.000000	0.5241	285.5	70.0-130.0	
Tert-Butyl Methyl Ether Column B, Water	142.774	142.774	50.000000	ND	0.2		
Benzene Column B, Water	47.7128	47.7128	50.000000	ND	95.4	70.0-130.0	
Toluene Column B, Water	48.5029	48.5029	50.000000	ND	0.6		
Ethylbenzene Column B, Water	47.9351	47.9351	50.000000	ND	97.0	70.0-130.0	
m,p-Xylene Column B, Water	95.6578	95.6578	100.000000	0.30937	95.3	70.0-130.0	
o-Xylene Column B, Water	48.0138	48.0138	50.000000	0.14296	95.7	70.0-130.0	
					0.6		
Test Method.....: SW-846 8015B	Units.....: ug/L						Analyst...: mht
Method Description.: Total Volatile Petroleum Hydrocarbons			Batch(s)...: 198329				
ICP	Calibration Control Sample	0X042900A	198329				04/30/2008 16:25
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TVPH as GRO, Water	252.543		250.000000		101.0	78-140	
ICP	Method Blank		198329				04/30/2008 16:51
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TVPH as GRO, Water	ND						
ICP	Matrix Spike	0X044500A	353368-2				04/30/2008 19:27
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TVPH as GRO, Water	228.192		250.000000	ND	91	70-130	
ICP	Matrix Spike Duplicate	0X044500A	353368-2				04/30/2008 19:53
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TVPH as GRO, Water	247.549	228.192	250.000000	ND	99.8.1	70-130	
					30.0		

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

PROJECT: Conestoga-Rovers &amp; Associates PROJECT: MARK ONE INC.

ALIN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: EPA 300.0      Units.....: mg/L      Analyst...: sur  
 Method Description.: Ion Chromatography Analysis      Batch(s)...: 198266 198333

CCB	Continuing Calibration Blank				05/01/2008 18:57
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				05/01/2008 21:29
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				05/01/2008 23:33
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Verification	HGS49267			05/01/2008 18:21
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.046		20.00		100.2	90.0-110.0	
Chloride	19.898		20.00		99.5	90.0-110.0	
Fluoride (F)	9.9873		10.00		99.9	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.462		10.0		104.6	90.0-110.0	
Sulfate (SO4)	19.785		20.00		98.9	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7568		10.0		97.6	90.0-110.0	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: MARK-TRINITY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCV	Continuing Calibration Verification	35339207			05/01/2008	12:03
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.880		20.00		99.4		90.0-110.0	
Chloride	19.747		20.00		98.7		90.0-110.0	
Fluoride (F)	10.002		10.00		100.0		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.362		10.0		103.6		90.0-110.0	
Sulfate (SO4)	20.044		20.00		100.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7408		10.0		97.4		90.0-110.0	

CCV	Continuing Calibration Verification	35339207			05/01/2008	12:15
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.884		20.00		99.4		90.0-110.0	
Chloride	19.673		20.00		98.4		90.0-110.0	
Fluoride (F)	9.9339		10.00		99.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.369		10.0		103.7		90.0-110.0	
Sulfate (SO4)	20.108		20.00		100.5		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6968		10.0		97.0		90.0-110.0	

CCD	Method Duplicate	353367		100	05/01/2008	17:16
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.1302			3.0592	2.3		20	
Fluoride (F), Water	0			0	0		0	
Nitrogen, Nitrate as N (NO3-N), Water	0.1441			0.1429	0.0012		0.2500	
Sulfate (SO4), Water	2.6568			2.5531	4.0		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

CCD	Method Duplicate	353368		10	05/01/2008	17:10
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0.0690			0	0.0690		0.6000	
Chloride, Water	18.962			18.961	0.0		20	
Fluoride (F), Water	0.2007			0.2106	0.0099		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2363			0.2345	0.0018		0.2500	
Sulfate (SO4), Water	7.2977			7.2902	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

CCB	Initial Calibration Blank	353368			05/01/2008	16:00
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates		PROJECT: MARK-UPEN-Q	ATTN:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCV	Internal Standard Verification	HGS49267			05/01/2008	15:45

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.203		20.00		101.0		90.0-110.0	
Chloride	20.096		20.00		100.5		90.0-110.0	
Fluoride (F)	9.9777		10.00		99.8		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.459		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.877		20.00		99.4		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8006		10.0		98.0		90.0-110.0	

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.156		20.00		100.8		90.0-110.0	
Chloride	20.092		20.00		100.5		90.0-110.0	
Fluoride (F)	9.9278		10.00		99.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.517		10.0		105.2		90.0-110.0	
Sulfate (SO4)	19.988		20.00		99.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8126		10.0		98.1		90.0-110.0	

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

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7961		10.000000	0	98.0		90-110	
Chloride, Water	12.453		10.000000	3.0592	93.9		90-110	
Fluoride (F), Water	1.5295		2.000000	0	76.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.0965		2.000000	0.1429	97.7		90-110	
Sulfate (SO4), Water	12.038		10.000000	2.5531	94.8		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.7670		2.000000	0	88.3		90-110	A

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9758		10.000000	0	99.8		90-110	
Chloride, Water	27.980		10.000000	18.961	90.2		90-110	
Fluoride (F), Water	1.8393		2.000000	0.2105	81.4		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1840		2.000000	0.2345	97.5		90-110	
Sulfate (SO4), Water	16.411		10.000000	7.2902	91.2		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.9049		2.000000	0	95.2		90-110	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: MARK GREN 9

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Contaminating Calibration Blank				05/02/2008	1630

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

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

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.2143						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

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

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

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CITYLABS: Comstock, Stoen &amp; Associates

PROJECT: MDC-VEN-0

MTH

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCV	Continuing Calibration Verification	WCS49267			05/02/2008	1754
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.072		20.00		100.4		90.0-110.0	
Chloride	19.856		20.00		99.3		90.0-110.0	
Fluoride (F)	10.311		10.00		103.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.455		10.00		104.5		90.0-110.0	
Sulfate (SO4)	19.927		20.00		99.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7482		10.00		97.5		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/02/2008	2102
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.993		20.00		100.0		90.0-110.0	
Chloride	19.707		20.00		98.5		90.0-110.0	
Fluoride (F)	10.149		10.00		101.5		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.401		10.00		104.0		90.0-110.0	
Sulfate (SO4)	19.963		20.00		99.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7025		10.00		97.0		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/02/2008	2354
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.795		20.00		99.0		90.0-110.0	
Chloride	19.671		20.00		98.4		90.0-110.0	
Fluoride (F)	10.214		10.00		102.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.31		10.00		103.1		90.0-110.0	
Sulfate (SO4)	19.602		20.00		98.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6989		10.00		97.0		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/03/2008	0216
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.745		20.00		98.7		90.0-110.0	
Chloride	19.586		20.00		97.9		90.0-110.0	
Fluoride (F)	9.9080		10.00		99.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.32		10.00		103.2		90.0-110.0	
Sulfate (SO4)	19.784		20.00		98.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6290		10.00		96.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/03/2008	0348
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.88		20.00		99.4		90.0-110.0	
Chloride	19.772		20.00		98.9		90.0-110.0	
Fluoride (F)	10.142		10.00		101.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.39		10.00		103.9		90.0-110.0	
Sulfate (SO4)	20.002		20.00		100.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7176		10.00		97.2		90.0-110.0	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga Rovers and Associates		PROJECT: WATCONC		ATM:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
DU	Method Duplicate	353368-1	10		05/02/2008-1657
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br), Water	0			0	0 1
Chloride, Water	3.3825			3.2809	3.0 20
Fluoride (F), Water	0			0	0 0
Nitrogen, Nitrate as N (NO3-N), Water	0.1176			0.1169	0.0007 0.2500
Sulfate (SO4), Water	1.3141			1.4262	0.1121 0.5000
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0 0
DU	Method Duplicate	353368-1			05/02/2008-1657
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Chloride, Soil	1.4925			1.5094	0.0169 0.5000
DU	Initial Calibration Blank				05/02/2008-1657
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br)	0				
Chloride	0				
Fluoride (F)	0				
Nitrogen, Nitrate as N (NO3-N)	0				
Sulfate (SO4)	0				
Nitrogen, Nitrite as N (NO2-N)	0				
DU	Initial Calibration Verification	MC549267			05/02/2008-1657
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br)	20.045		20.00		100.2 90.0-110.0
Chloride	19.890		20.00		99.5 90.0-110.0
Fluoride (F)	10.047		10.00		100.5 90.0-110.0
Nitrogen, Nitrate as N (NO3-N)	10.387		10.0		103.9 90.0-110.0
Sulfate (SO4)	19.788		20.00		98.9 90.0-110.0
Nitrogen, Nitrite as N (NO2-N)	9.7448		10.0		97.4 90.0-110.0
DU	Laboratory Control Sample	MC549267			05/02/2008-1657
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br)	20.154		20.00		100.8 90.0-110.0
Chloride	20.083		20.00		100.4 90.0-110.0
Fluoride (F)	10.261		10.00		102.6 90.0-110.0
Nitrogen, Nitrate as N (NO3-N)	10.501		10.0		105.0 90.0-110.0
Sulfate (SO4)	19.914		20.00		99.6 90.0-110.0
Nitrogen, Nitrite as N (NO2-N)	9.8125		10.0		98.1 90.0-110.0

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

TEST CODES, CONCENTRATIONS AND ASSOCIATED PROJECT NUMBER		REAGENTS USED		ATTN	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
Method Blank					05/02/2008 15:50
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br)	0				
Chloride	0				
Fluoride (F)	0				
Nitrogen, Nitrate as N (NO3-N)	0				
Sulfate (SO4)	0				
Nitrogen, Nitrite as N (NO2-N)	0				
Method Blank	LPC4B015	353368-1	10		05/02/2008 15:52
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Bromide (Br), Water	9.7051		10.000000	0	97.1 90-110
Chloride, Water	12.562		10.000000	3.2809	92.8 90-110
Fluoride (F), Water	1.6119		2.000000	0	80.6 90-110 A
Nitrogen, Nitrate as N (NO3-N), Water	2.0638		2.000000	0.1169	97.3 90-110
Sulfate (SO4), Water	10.858		10.000000	1.4262	94.3 90-110
Nitrogen, Nitrite as N (NO2-N), Water	1.7263		2.000000	0	86.3 90-110 A
Method Blank	LPC4B020	353368-2	10		05/02/2008 15:52
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Chloride, Soil	10.387		10.000000	1.5094	88.8 90-110 A
Test Method.....: SW-846 7470A	Units.....: ug/L	Analyst...: dcl			
Method Description.: Mercury (CVAA)	Batch(s)...: 198188				
Method Blank	Continuing Calibration Blank				04/30/2008 14:20
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)	0.00863624				
Method Blank	Continuing Calibration Blank				04/30/2008 14:41
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)	0.00514303				
Method Blank	Continuing Calibration Blank				04/30/2008 14:59
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)	-0.00685962				

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

QCS OWNER - CONSTRUCTION REVIEW AND ASSOCIATES		PROJECT - MARK DENECKE		ATTN:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
CCV	Containing Calibration Blank				04/30/2008	13:07	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0.00079183						
CCV	Containing Calibration Verification	MSHGICV2			04/30/2008	14:16	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	3.085589007		3.00		102.9	80.0-120.0	
CCV	Containing Calibration Verification	MSHGICV2			04/30/2008	14:36	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	3.076712085		3.00		102.6	80.0-120.0	
CCV	Containing Calibration Verification	MSHGICV2			04/30/2008	14:56	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	3.101762682		3.00		103.4	80.0-120.0	
CCV	Containing Calibration Verification	MSHGICV2			04/30/2008	15:15	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	3.111362477		3.00		103.7	80.0-120.0	
CCP	Contract Required Detection Limit	MSHGERA			04/30/2008	14:16	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0.2051864667		0.200		102.6	50.0-150.0	
EDB	Extraction Blank		198042-1		04/30/2008	14:26	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	0.01645552						
EDB	Extraction Blank		198132-1		04/30/2008	14:47	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	0.01394150						

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: COTECLOGIC-KOVEL &amp; CO ASSOCIATES

PROJECT: MARK MERRILL

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
ICP	Initial Calibration Blank				04/30/2008	14:14	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0.00333939						
ICP	Initial Calibration Verification	MSHGICV2			04/30/2008	14:12	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	3.138941783		3.00		104.6	90.0-110.0	
ICP	Laboratory Control Sample	MSHGICV2	106.0			04/30/2008	14:21
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), Water	3.010410942		3.00		100.3	80.0-120.0	
ICP	Noashed Blank		198149			04/30/2008	14:22
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), Water	0.00962780						
ICP	Method Duplicate		353045-1			04/30/2008	14:23
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	0.00894629	0.01509500		0.01509500	0.00614871	0.20000000	
ICP	Method Duplicate		353368-1			04/30/2008	14:24
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), Water	0.00286804	0.00122344		0.00122344	0.00164460	0.20000000	
ICP	Matrix Spike	MSHGICV2	353045-1			04/30/2008	14:25
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	3.182467161		3.00	0.01509500	105.6	75-125	
ICP	Matrix Spike	MSHGICV2	353368-1			04/30/2008	14:26
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), Water	2.823763631		3.00	0.00122344	94.1	75-125	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Corrections, Recovery and Recalibration

PROJECT: MARK-000

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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MSD	Matrix Spike-Duplicate	NSH/GC/CV	353368-1		04/30/2008	14:54
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	3.215987543	3.182467161	3.00	0.01509500	106.7	75-125	A

MSD	Matrix Spike-Duplicate	NSH/GC/CV	353368-1		04/30/2008	15:02
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), Water	2.807403325	2.823763631	3.00	0.00122344	93.5	75-125	A

PDS	Post Digestion Spike	NSH/GC/CV	353368-1		04/30/2008	15:11
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	3.932693808		3.00	0.01509500	130.6	75-125	A

10	Calibration Blank					04/30/2008	15:21
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

C012	Calibration Standard					04/30/2008	14:00
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

C013	Calibration Standard					04/30/2008	14:01
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

C014	Calibration Standard					04/30/2008	14:07
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Lone Frog Recovery &amp; Associates

PROJECT: MUCK CREEK 02

MATERIAL:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
S100	Calibration Standard				04/30/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg)	0						

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Mercury (Hg), TCLP	-0.00090577	353368	5	0.01509500	04/30/2008	1513	

Test Method.....: SW-846 6010B	Units.....: mg/L	Analyst...: srp
Method Description.: Metals Analysis (ICAP Trace)	Batch(s)...: 198588	

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As)	0.00144						

Barium (Ba)	0.00005						
Cadmium (Cd)	0.00003						
Chromium (Cr)	0.00071						
Lead (Pb)	0.00095						
Selenium (Se)	0.00066						
Silver (Ag)	-0.00015						

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As)	0.00094						

Barium (Ba)	0.00006						
Cadmium (Cd)	0.00011						
Chromium (Cr)	0.00055						
Lead (Pb)	0.00079						
Selenium (Se)	0.00195						
Silver (Ag)	-0.00054						

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: COMPTONSCHE ROVERS BHM ASSOCIATES

PROJECT: MARK CHEM

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	CONTINUING CALIBRATION BLANK				05/08/2008	10:16

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00020							
Barium (Ba)	0.00007							
Cadmium (Cd)	-0.00000							
Chromium (Cr)	0.00051							
Lead (Pb)	0.00061							
Selenium (Se)	0.00091							
Silver (Ag)	-0.00063							

CCB	CONTINUING CALIBRATION BLANK				05/08/2008	10:57
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00066							
Barium (Ba)	0.00004							
Cadmium (Cd)	0.00006							
Chromium (Cr)	0.00035							
Lead (Pb)	0.00009							
Selenium (Se)	0.00025							
Silver (Ag)	-0.00072							

CCB	CONTINUING CALIBRATION BLANK				05/08/2008	11:03
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00047							
Barium (Ba)	0.00012							
Cadmium (Cd)	0.00004							
Chromium (Cr)	0.00054							
Lead (Pb)	0.00074							
Selenium (Se)	0.00026							
Silver (Ag)	-0.00019							

CCB	CONTINUING CALIBRATION VERIFICATION	MS050508C0			05/08/2008	10:45
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50693		0.500		101.4		90.0-110.0	
Barium (Ba)	0.49722		0.500		99.4		90.0-110.0	
Cadmium (Cd)	0.50488		0.500		101.0		90.0-110.0	
Chromium (Cr)	0.50659		0.500		101.3		90.0-110.0	
Lead (Pb)	0.50306		0.500		100.6		90.0-110.0	
Selenium (Se)	0.50271		0.500		100.5		90.0-110.0	
Silver (Ag)	0.24731		0.25		98.9		90.0-110.0	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTODIAN - CONSOLIDATED ASSOCIATES		PROJECT - MARK 001		ATTN:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
CCV	continuing calibration verification	MS050500C			05/08/2008	1029	
	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*
Arsenic (As)	0.51163			0.500	102.3	90.0-110.0	Limits
Barium (Ba)	0.49662			0.500	99.3	90.0-110.0	F
Cadmium (Cd)	0.50768			0.500	101.5	90.0-110.0	
Chromium (Cr)	0.51038			0.500	102.1	90.0-110.0	
Lead (Pb)	0.50725			0.500	101.5	90.0-110.0	
Selenium (Se)	0.50384			0.500	100.8	90.0-110.0	
Silver (Ag)	0.24852			0.25	99.4	90.0-110.0	
CCV	continuing calibration verification	MS050500C			05/08/2008	1013	
	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*
Arsenic (As)	0.50492			0.500	101.0	90.0-110.0	Limits
Barium (Ba)	0.49342			0.500	98.7	90.0-110.0	F
Cadmium (Cd)	0.50268			0.500	100.5	90.0-110.0	
Chromium (Cr)	0.50739			0.500	101.5	90.0-110.0	
Lead (Pb)	0.50244			0.500	100.5	90.0-110.0	
Selenium (Se)	0.49659			0.500	99.3	90.0-110.0	
Silver (Ag)	0.24739			0.25	99.0	90.0-110.0	
CCV	continuing calibration verification	MS050500C			05/08/2008	1054	
	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*
Arsenic (As)	0.50817			0.500	101.6	90.0-110.0	Limits
Barium (Ba)	0.49120			0.500	98.2	90.0-110.0	F
Cadmium (Cd)	0.50297			0.500	100.6	90.0-110.0	
Chromium (Cr)	0.50781			0.500	101.6	90.0-110.0	
Lead (Pb)	0.50364			0.500	100.7	90.0-110.0	
Selenium (Se)	0.50451			0.500	100.9	90.0-110.0	
Silver (Ag)	0.24664			0.25	98.7	90.0-110.0	
CCV	continuing calibration verification	MS050500C			05/08/2008	1116	
	Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*
Arsenic (As)	0.51114			0.500	102.2	90.0-110.0	Limits
Barium (Ba)	0.49245			0.500	98.5	90.0-110.0	F
Cadmium (Cd)	0.50404			0.500	100.8	90.0-110.0	
Chromium (Cr)	0.50999			0.500	102.0	90.0-110.0	
Lead (Pb)	0.50543			0.500	101.1	90.0-110.0	
Selenium (Se)	0.50218			0.500	100.4	90.0-110.0	
Silver (Ag)	0.24804			0.25	99.2	90.0-110.0	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Cornerstone Rovere &amp; Associates

PROJECT: MARK CHEM A

ANALYST:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
QCB	Calibration check standard 1	MS041908T1			05/08/2008	0834

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As)	0.01169		0.0100		116.9	80.0-120.0	
Barium (Ba)	0.00999		0.0100		99.9	80.0-120.0	
Cadmium (Cd)	0.00507		0.00500		101.4	80.0-120.0	
Chromium (Cr)	0.01065		0.0100		106.5	80.0-120.0	
Lead (Pb)	0.00982		0.0100		98.2	80.0-120.0	
Selenium (Se)	0.01118		0.0100		111.8	80.0-120.0	
Silver (Ag)	0.00419		0.00500		83.8	80.0-120.0	

QCB	Standard check for ICP	MS041908S			05/08/2008	0837
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As)	2.00028		2.00		100.0	95.0-105.0	
Barium (Ba)	2.00751		2.00		100.4	95.0-105.0	
Cadmium (Cd)	0.99909		1.00		99.9	95.0-105.0	
Chromium (Cr)	2.00367		2.00		100.2	95.0-105.0	
Lead (Pb)	2.00179		2.00		100.1	95.0-105.0	
Selenium (Se)	2.01696		2.00		100.8	95.0-105.0	
Silver (Ag)	1.00033		1.00		100.0	95.0-105.0	

QCB	Extraction Blank		1985.16		05/08/2008	0846
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As), Liquid	0.00151						
Barium (Ba), Liquid	0.00084						
Cadmium (Cd), Liquid	0.00008						
Chromium (Cr), Liquid	0.00127						
Lead (Pb), Liquid	0.00062						
Selenium (Se), Liquid	0.00135						
Silver (Ag), Liquid	-0.00007						

QCB	UVIST Calibration Blank				05/08/2008	0850
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As)	-0.00084						
Barium (Ba)	-0.00006						
Cadmium (Cd)	-0.00013						
Chromium (Cr)	0.00015						
Lead (Pb)	-0.00047						
Selenium (Se)	0.00120						
Silver (Ag)	-0.00084						

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: COODES TOKE-KOVICS AND ASSOCIATES

PROJECT: MARK CLOUDS

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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TEU	Initial Calibration Verification	MSU050508CC			05/08/2008	0820
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50929		0.500		101.9		90.0-110.0	
Barium (Ba)	0.49929		0.500		99.9		90.0-110.0	
Cadmium (Cd)	0.50717		0.500		101.4		90.0-110.0	
Chromium (Cr)	0.50763		0.500		101.5		90.0-110.0	
Lead (Pb)	0.50548		0.500		101.1		90.0-110.0	
Selenium (Se)	0.50508		0.500		101.0		90.0-110.0	
Silver (Ag)	0.24810		0.25		99.2		90.0-110.0	

TSB	Interference Check Sample A	MSU1908EA			05/08/2008	0837
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00012		0.0					
Barium (Ba)	0.00152		0.0					
Cadmium (Cd)	-0.00087		0.0					
Chromium (Cr)	0.00302		0.0					
Lead (Pb)	-0.01111		0.0					
Selenium (Se)	0.01211		0.0					
Silver (Ag)	-0.00057		0.0					

TSB	Interference Check Sample B	MSU1908EB			05/08/2008	0841
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	1.02556		1.00		102.6		80.0-120.0	
Barium (Ba)	1.01721		1.00		101.7		80.0-120.0	
Cadmium (Cd)	0.46892		0.500		93.8		80.0-120.0	
Chromium (Cr)	0.96834		1.00		96.8		80.0-120.0	
Lead (Pb)	0.95410		1.00		95.4		80.0-120.0	
Selenium (Se)	1.03513		1.00		103.5		80.0-120.0	
Silver (Ag)	0.53511		0.500		107.0		80.0-120.0	

TSB	Laboratory Control Sample	MSPIKEW	198516		05/08/2008	0855
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Water	1.03934		1.00		103.9		80.0-120.0	
Barium (Ba), Water	1.03304		1.00		103.3		80.0-120.0	
Cadmium (Cd), Water	0.51444		0.500		102.9		80.0-120.0	
Chromium (Cr), Water	1.02891		1.00		102.9		80.0-120.0	
Lead (Pb), Water	1.02864		1.00		102.9		80.0-120.0	
Selenium (Se), Water	1.02349		1.00		102.3		80.0-120.0	
Silver (Ag), Water	0.51085		0.500		102.2		80.0-120.0	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: CONSTRUCTION-COVERS, LTD. &amp; ASSOCIATES

PROJECT: MARK OWNERSHIP

STATION:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
None	Method Blank		178516		05/08/2008	0852

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Water	-0.00036							
Barium (Ba), Water	0.00011							
Cadmium (Cd), Water	0.00003							
Chromium (Cr), Water	0.00083							
Lead (Pb), Water	0.00027							
Selenium (Se), Water	-0.00177							
Silver (Ag), Water	-0.00006							

None	Method Duplicate	353218-10		05/08/2008	1020
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00000	0.00077		0.00077	0.00077		0.02000	
Barium (Ba), Diss.	0.11973	0.12230		0.12230	2.1	20		
Cadmium (Cd), Diss.	0.00000	0.00012		0.00012	0.00012		0.00500	
Chromium (Cr), Diss.	0.00083	0.00118		0.00118	0.00035		0.01000	
Lead (Pb), Diss.	0.00027	0.00043		0.00043	0.00016		0.01000	
Selenium (Se), Diss.	0.00134	-0.00030		-0.00030	0.00164		0.04000	
Silver (Ag), Diss.	-0.00007	-0.00041		-0.00041	0.00034		0.01000	

None	Method Duplicate	353218-11		05/08/2008	1055
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00134	0.00136		0.00136	0.00002		0.02000	
Barium (Ba), Diss.	0.06399	0.06525		0.06525	0.00126		0.02000	
Cadmium (Cd), Diss.	0.00009	-0.00001		-0.00001	0.00010		0.00500	
Chromium (Cr), Diss.	0.00116	0.00115		0.00115	0.00001		0.01000	
Lead (Pb), Diss.	0.00126	0.00202		0.00202	0.00076		0.01000	
Selenium (Se), Diss.	-0.00181	0.00112		0.00112	0.00293		0.04000	
Silver (Ag), Diss.	-0.00042	-0.00087		-0.00087	0.00045		0.01000	

None	Matrix Spike	353218-9		05/08/2008	1024
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.00910		1.00	0.00077	100.8		75-125	
Barium (Ba), Diss.	1.09387		1.00	0.12230	97.2		75-125	
Cadmium (Cd), Diss.	0.48836		0.500	0.00012	97.6		75-125	
Chromium (Cr), Diss.	0.98227		1.00	0.00118	98.1		75-125	
Lead (Pb), Diss.	0.98556		1.00	0.00043	98.5		75-125	
Selenium (Se), Diss.	0.98999		1.00	-0.00030	99.0		75-125	
Silver (Ag), Diss.	0.49010		0.500	-0.00041	98.1		75-125	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Cone-Tools, Rovers and Associates		PROJECT: MARK OWN 9		DATE:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
AS	ASPIKE1	ASPIKE1	353368-11		05/08/2008	1038	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As), Diss.	1.06013		1.00	0.00136	105.9	75-125	
Barium (Ba), Diss.	1.09591		1.00	0.06525	103.1	75-125	
Cadmium (Cd), Diss.	0.51128		0.500	-0.00001	102.3	75-125	
Chromium (Cr), Diss.	1.03403		1.00	0.00115	103.3	75-125	
Lead (Pb), Diss.	1.03580		1.00	0.00202	103.4	75-125	
Selenium (Se), Diss.	1.03543		1.00	0.00112	103.4	75-125	
Silver (Ag), Diss.	0.51733		0.500	-0.00087	103.6	75-125	
ASD	ASPIKE1 Spike Duplicate	ASPIKE1	353368-9		05/08/2008	1027	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As), Diss.	1.07565	1.00910	1.00	0.00077	107.5 6.4	75-125 20	
Barium (Ba), Diss.	1.15367	1.09387	1.00	0.12230	103.1 5.9	75-125 20	
Cadmium (Cd), Diss.	0.51858	0.48836	0.500	0.00012	103.7 6.1	75-125 20	
Chromium (Cr), Diss.	1.04588	0.98227	1.00	0.00118	104.5 6.3	75-125 20	
Lead (Pb), Diss.	1.05160	0.98556	1.00	0.00043	105.1 6.5	75-125 20	
Selenium (Se), Diss.	1.05294	0.98999	1.00	-0.00030	105.3 6.2	75-125 20	
Silver (Ag), Diss.	0.52229	0.49010	0.500	-0.00041	104.5 6.3	75-125 20	
ASD	ASPIKE1 Spike Duplicate	ASPIKE1	353368-11		05/08/2008	1042	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Arsenic (As), Diss.	1.05768	1.06013	1.00	0.00136	105.6 0.3	75-125 20	
Barium (Ba), Diss.	1.09165	1.09591	1.00	0.06525	102.6 0.5	75-125 20	
Cadmium (Cd), Diss.	0.51012	0.51128	0.500	-0.00001	102.0 0.3	75-125 20	
Chromium (Cr), Diss.	1.03462	1.03403	1.00	0.00115	103.3 0.0	75-125 20	
Lead (Pb), Diss.	1.03311	1.03580	1.00	0.00202	103.1 0.3	75-125 20	
Selenium (Se), Diss.	1.03653	1.03543	1.00	0.00112	103.5 0.1	75-125 20	
Silver (Ag), Diss.	0.51670	0.51733	0.500	-0.00087	103.5 0.1	75-125 20	

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER'S COMPANY: ROVERS AND ASSOCIATES

PROJECT NUMBER: 9999

ATMOS

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
PPS	Post-Digestion Spike	NSPIKE3	353368-1		05/08/2008	1003

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.03751		1.00	0.00077	103.7		75-125	
Barium (Ba), Diss.	1.11669		1.00	0.12230	99.4		75-125	
Cadmium (Cd), Diss.	0.50372		0.500	0.00012	100.7		75-125	
Chromium (Cr), Diss.	1.02599		1.00	0.00118	102.5		75-125	
Lead (Pb), Diss.	1.02473		1.00	0.00043	102.4		75-125	
Selenium (Se), Diss.	1.02748		1.00	-0.00030	102.8		75-125	
Silver (Ag), Diss.	0.50818		0.500	-0.00041	101.7		75-125	

SP	Calibration Blank						05/08/2008	0806
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00051							
Barium (Ba)	-0.00026							
Cadmium (Cd)	0.00140							
Chromium (Cr)	-0.00029							
Silver (Ag)	0.00003							

SP	Control Duplicate						05/08/2008	1003
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00208			0.00077				
Barium (Ba), Diss.	0.02268			0.12230		7.3	10.0	
Cadmium (Cd), Diss.	-0.00001			0.00012				
Chromium (Cr), Diss.	0.00110			0.00118				
Lead (Pb), Diss.	0.00141			0.00043				
Selenium (Se), Diss.	0.00282			-0.00030				
Silver (Ag), Diss.	-0.00028			-0.00041				

SP	SP/KC-BLANK Duplicate						05/08/2008	0809
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	1.13292							
Barium (Ba)	15.41192							
Cadmium (Cd)	12.60668							
Chromium (Cr)	2.28933							
Silver (Ag)	0.83351							

## QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Constellation Waters and Associates

PROJECT: MARK OWNED

SITN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8015B      Units.....: mg/L  
 Method Description.: Total Extractable Petroleum Hydrocarbons Batch(s)...: 198378

Analyst...: jps

LCD	Laboratory Control Sample Duplicate	GC020708	198218		05/02/2008	1530
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TEPH - as Diesel, Water	1080.09	1110.31	1000.000000	ND	108.0 2.8	70-130 20	

LCS	Laboratory Control Sample	GC020708	198218		05/02/2008	1246
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TEPH - as Diesel, Water	1110.31		1000.000000	ND	111.0	69-118	

MB	Method Blank	GC190807	198218		05/02/2008	1202
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
TEPH - as Diesel, Water	ND						

## SURROGATE RECOVERIES REPORT

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: MARK OPEN

ATTN: Arthur Greer

Method.....: Total Extractable Petroleum Hydrocarbons  
 Batch(s)....: 198378

Method Code...: 8015D  
 Test Matrix...: Water

Prep Batch....: 198218  
 Equipment Code: EXTGC01

Lab ID	DT	Sample ID	Date	OTERPH
353368- 1		MW142508	05/02/2008	90
353368- 2		MW242508	05/02/2008	83
353368- 3		MW342508	05/02/2008	72
353368- 4		MW442508	05/02/2008	80
353368- 5		DUP42508	05/02/2008	79
198218-21 LCD			05/02/2008	66
198218-21 LCS			05/02/2008	65
198218-21 MB			05/02/2008	82

Test	Test Description	Limits
OTERPH	o-Terphenyl	60 - 140

## SURROGATE RECOVERIES REPORT

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: 198329

PROJECT: MARK-OPEN-2

ETN: Arthur Greeley

Method.....: Total Volatile Petroleum Hydrocarbons  
Batch(s).....: 198329Method Code...: 8015G  
Test Matrix...: WaterPrep Batch....:  
Equipment Code: BTEX04

Lab ID	DT	Sample ID	Date	ATFT	BFB
198329- 1	LCS		04/30/2008	99.8	110.4
198329- 1	MB		04/30/2008	95.9	109.8
353368- 1		MW142508	04/30/2008	96.4	110.4
353368- 2		MW242508	04/30/2008	98.0	108.5
353368- 2	MS	MW242508	04/30/2008	96.6	108.0
353368- 2	MSD	MW242508	04/30/2008	97.2	109.9
353368- 3		MW342508	04/30/2008	98.2	109.1
353368- 4		MW442508	04/30/2008	94.3	112.0
353368- 5		DUP42508	04/30/2008	92.4	111.4

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	68 - 143
BFB	BFB (Surrogate)	70 - 139

## SURROGATE RECOVERIES REPORT

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: 483648

PROJECT: MARK-OPEN

MATERIAL: Surrogate

Method.....: GC Volatile Organics  
Batch(s).....: 198312 198508Method Code...: 8021  
Test Matrix...: WaterPrep Batch....:  
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
198312-	1	LCS	04/30/2008	99.5	100.9	101.1	102.2
198312-	1	MB	04/30/2008	107.5	107.4	110.7	104.1
198508-	1	LCS	05/05/2008	106.2	106.9	101.1	104.5
198508-	1	MB	05/05/2008	108.0	108.2	105.5	99.9
198508-	1	SB	05/05/2008	105.6	106.8	100.8	101.0
198508-	1	SBD	05/05/2008	105.1	106.9	101.2	100.5
353368-	1	MW142508	04/30/2008	110.2	109.8	111.4	105.3
353368-	1	MS	04/30/2008	106.1	106.8	103.9	103.6
353368-	1	MSD	04/30/2008	105.7	107.6	103.7	103.7
353368-	2	MW242508	04/30/2008	108.7	108.7	109.8	103.8
353368-	3	MW342508	04/30/2008	108.2	108.6	107.9	103.8
353368-	4	MW442508	04/30/2008	109.1	108.7	109.8	104.5
353368-	5	DUP42508	04/30/2008	108.2	108.1	109.7	104.0
353368-	6	TRIP	05/05/2008	107.0	106.9	106.1	99.3
353368-	7	TRIP	05/05/2008	107.6	107.5	107.1	100.2

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

QUALITY ASSURANCE METHODS

REFERRENCES AND NOTES

Report Date: 05/08/2008

REPORT COMMENTS

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

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming diphenylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethylsilyl(Diazomethane) is used to esterify acid herbicides in Method SU-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 MDL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only correction required for water analysis is for method 1006 where the reported concentration must be multiplied by 0.1.
- Due to limitation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reviewed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

## ANALYTICAL PERFORMANCE METHOD

### REFERENCES AND NOTES

Report Date: 05/06/2006

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

#### Explanation of Organic QC Outliers:

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

#### Explanation of Inorganic QC Outliers:

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

#### Abbreviations:

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

QUALITY ASSURANCE SECTION

REFERENCES AND NOTES

Report Date: 05/08/2005

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: 353368

Date: 05/08/2008

CUSTOMER: GORE, DUSTY/Revere Oil Co Inc		PROJECT: MARK ONE 9		ANALYST: Greeley	
Lab ID: 353368-1	Client ID: MW142508	Date Recvd: 04/29/2008	Sample Date: 04/25/2008		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008 0930
SM 2320 B	Alkalinity	1	198199		04/30/2008 1610
SWB46 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008 1525
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008 2037
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 1908
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 1923
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008 1453
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008 1033
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008 0859
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008 1414
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008 1717
					1.0000
Lab ID: 353368-2	Client ID: MW242508	Date Recvd: 04/29/2008	Sample Date: 04/25/2008		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008 0930
SM 2320 B	Alkalinity	1	198199		04/30/2008 1610
SWB46 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008 1525
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008 2057
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 1955
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008 1504
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008 1033
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008 0903
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008 1202
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008 1743
					1.0000
Lab ID: 353368-3	Client ID: MW342508	Date Recvd: 04/29/2008	Sample Date: 04/25/2008		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008 0930
SM 2320 B	Alkalinity	1	198199		04/30/2008 1610
SWB46 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008 1525
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008 2118
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 2042
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 2057
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008 1506
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008 1033
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008 0907
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008 1246
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008 1809
					1.0000
Lab ID: 353368-4	Client ID: MW442508	Date Recvd: 04/29/2008	Sample Date: 04/25/2008		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008 0930
SM 2320 B	Alkalinity	1	198199		04/30/2008 1610
SWB46 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008 1525
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008 2138
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008 2144
EPA 300.0	Ion Chromatography Analysis	1	198333		05/02/2008 1652
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008 1507
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008 1033
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008 0910
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008 1330
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008 1835
					1.0000
Lab ID: 353368-5	Client ID: DUP42508	Date Recvd: 04/29/2008	Sample Date: 04/25/2008		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008 0930

## LABORATORY CHRONICLE

Job Number: 353368

Date: 05/08/2008

CUSTOMER: Colorado River Remediation LLC

PROJECT: MARC OPEN O

ATTN: Arthur Greeley

Lab ID:	Client ID:	Method:	Description:	Date Recvd:	Sample Date:	Run#:	Batch#:	Prep BT #(S)	Date/Time Analyzed	Dilution
353368-5	DUP42508	METHOD	Alkalinity	04/29/2008	04/25/2008	1	198199		04/30/2008	1610
SM 2320 B		EXTRACTION	Extraction (Sep Funnel) 8015 Diesel			1	198218		04/30/2008	1525
SW-846 8015		GC VOLATILE ORGANICS				1	198312		04/30/2008	2158
SW-846 8021B		ICP	Ion Chromatography Analysis			1	198266		05/01/2008	2231
EPA 300.0		ICP	Ion Chromatography Analysis			1	198333		05/02/2008	1708
SW-846 7470A		MERCURY	Mercury (CVAA)			1	198188	198149	04/30/2008	1509
SW-846 7470A		MERCURY PREPARATION	Mercury Preparation (CVAA)			1	198149		04/30/2008	1033
SW-846 6010B		ICAP TRACE	Metals Analysis (ICAP Trace)			1	198588	198516	05/08/2008	0914
SW-846 8015B		TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS	Total Extractable Petroleum Hydrocarbons			1	198378	198218	05/02/2008	1414
SW-846 8015B		TOTAL VOLATILE PETROLEUM HYDROCARBONS	Total Volatile Petroleum Hydrocarbons			1	198329		04/30/2008	1901
										1.0000
Lab ID: 353368-6	Client ID: TRIP	METHOD	DESCRIPTION	Date Recvd: 04/29/2008	Sample Date: 04/25/2008	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B		GC VOLATILE ORGANICS				1	198508		05/05/2008	1541
Lab ID: 353368-7	Client ID: TRIP	METHOD	DESCRIPTION	Date Recvd: 04/29/2008	Sample Date: 04/25/2008	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B		GC VOLATILE ORGANICS				1	198508		05/05/2008	1601
										1.0000

# Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

# TestAmerica

3533368

THE LEADER IN ENVIRONMENTAL TESTING

Client	C.R. A.	Project Manager	Tom Larson	Date	4-28-08	Chain of Custody Number	078062
Address	2135 S. 100 E. 250 W.	Telephone Number (Area Code)/Fax Number	432/686-1028	Lab Number		Page	1 or 1
City	Midland	State	Zip Code	432/686/0186			
Project Name and Location (State)	Owner #9 NM	Carrier/Mailbox Number		Analysis (Attach list if more space is needed)			
Contract/Purchase Order/Quote No.	500 CRA SSOW 046121	Matrix		Special Instructions/Conditions of Receipt			
				Containers & Preservatives			
				Uptens.	HORN	ZNAK	
				SEED	X	X	X
				SOIL	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				UPPER	X	X	X
				HOEN	X	X	X
				H2O	X	X	X
				SOIL	X	X	X
				SEED	X	X	X
				SNOW	X	X	

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 353368	Location.: 57216	Check List Number.: 1	Description.: Job Check List Date.: 04/29/2008
Customer Job ID.....:	Project Number.: 99007656	Project Description.: Mark Owen 9	Date of the Report.: 04/29/2008 Project Manager.....: sgk
Customer.....: Conestoga-Rovers and Associates		Contact.: Arthur Greeley	
Questions ?	(Y/N) Comments		
Chain of Custody Received?.....	Y		
...If "yes", completed properly?.....	Y		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....	Y		
Samples chilled?.....	Y		
Temperature of cooler acceptable? (<=6 Deg C). Y 1.2 1.5			
...If "no", is sample an air matrix?(no temp req.)			
Thermometer ID.....	Y 491		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	N		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
Additional.....			
Comments.....			
Sample Custodian Signature/Date.....	Y mt		

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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## Certificate of Analysis

### ANALYTICAL REPORT

PROJECT NO. 046121 CEMC

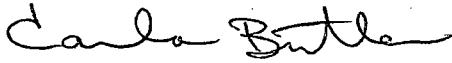
Mark Owen #9 Lea County, NM

Lot #: I8I170297

Tom Larson

Conestoga-Rovers & Associates,  
2135 S Loop 250 W  
Midland, TX 79703

TESTAMERICA LABORATORIES, INC.

  
Carla M. Butler  
Project Manager

September 29, 2008

## Case Narrative

LOT NUMBER: I8I170297

This report contains the analytical results for the seven samples received under chain of custody by TestAmerica Laboratories, Inc. on September 17, 2008. These samples are associated with your Mark Owen #9 Lea County, NM project.

After a telephone consultation with Mr. Tom Larson, the laboratory was instructed to run total RCRA metals from the collections that were received with nitric acid preservation and to filter an aliquot from the unpreserved collections to report as dissolved RCRA metals.

All samples were received in good condition and within temperature requirements.

Recoveries of benzene and toluene were outside limits for the 8021 MSD of sample 001, but were within limits for the MS. Please see result pages for details.

The MS/MSD for the GRO analysis could not be reported because the autosampler failed before running the spiked samples.

There was insufficient sample volume to prepare a MS/MSD for the DRO analysis. A duplicate Laboratory Control Sample was prepared to provide accuracy and precision measurements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 310-5318.

## EXECUTIVE SUMMARY - Detection Highlights

I8I170297

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MW-1 091608 09/16/08 10:20 001</b>				
Diesel Range Organics	0.25	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.0085 B	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.40	0.20	mg/L	SW846 6010B
Selenium - DISSOLVED	0.0072	0.0050	mg/L	SW846 6010B
Arsenic	0.014	0.010	mg/L	SW846 6010B
Barium	0.40	0.20	mg/L	SW846 6010B
Chromium	0.0024 B	0.0050	mg/L	SW846 6010B
Selenium	0.0072	0.0050	mg/L	SW846 6010B
Chloride	1590	200	mg/L	MCAWW 300.0A
Sulfate	154	100	mg/L	MCAWW 300.0A
Total Alkalinity	146	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	3620	40.0	mg/L	SM19 2540 C
<b>MW-2 091608 09/16/08 11:15 002</b>				
Diesel Range Organics	0.070	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.011	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.094 B	0.20	mg/L	SW846 6010B
Selenium - DISSOLVED	0.0051	0.0050	mg/L	SW846 6010B
Arsenic	0.012	0.010	mg/L	SW846 6010B
Barium	0.12 B	0.20	mg/L	SW846 6010B
Chromium	0.0056	0.0050	mg/L	SW846 6010B
Selenium	0.0060	0.0050	mg/L	SW846 6010B
Chloride	182	100	mg/L	MCAWW 300.0A
Sulfate	91.9	50.0	mg/L	MCAWW 300.0A
Total Alkalinity	181	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	729	40.0	mg/L	SM19 2540 C
<b>MW-3 091608 09/16/08 11:45 003</b>				
Diesel Range Organics	0.073	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.022	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.086 B	0.20	mg/L	SW846 6010B
Arsenic	0.026	0.010	mg/L	SW846 6010B
Barium	0.096 B	0.20	mg/L	SW846 6010B
Chloride	63.7	20.0	mg/L	MCAWW 300.0A
Sulfate	31.8	20.0	mg/L	MCAWW 300.0A
Total Alkalinity	222	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	457	40.0	mg/L	SM19 2540 C

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

I8I170297

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MW-4 091608 09/16/08 00:45 004</b>				
Diesel Range Organics	0.052	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.016	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.090 B	0.20	mg/L	SW846 6010B
Arsenic	0.018	0.010	mg/L	SW846 6010B
Barium	0.092 B	0.20	mg/L	SW846 6010B
Chloride	4420	500	mg/L	MCAWW 300.0A
Sulfate	136	100	mg/L	MCAWW 300.0A
Total Alkalinity	196	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	8140	40.0	mg/L	SM19 2540 C
<b>DUP 09/16/08 005</b>				
Diesel Range Organics	0.052	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.017	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.089 B	0.20	mg/L	SW846 6010B
Arsenic	0.019	0.010	mg/L	SW846 6010B
Barium	0.088 B	0.20	mg/L	SW846 6010B
Chloride	4210	500	mg/L	MCAWW 300.0A
Sulfate	135	100	mg/L	MCAWW 300.0A
Total Alkalinity	202	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	7940	40.0	mg/L	SM19 2540 C

## ANALYTICAL METHODS SUMMARY

181170297

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Alkalinity, Total	SM19 2320 B
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Filterable Residue (TDS)	SM19 2540 C
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Sulfate	MCAWW 300.0A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

**References:**

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM19 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 19TH EDITION, 1995."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**SAMPLE SUMMARY**

I8I170297

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
KW3FG	001	MW-1 091608	09/16/08	10:20
KW3FP	002	MW-2 091608	09/16/08	11:15
KW3FQ	003	MW-3 091608	09/16/08	11:45
KW3FT	004	MW-4 091608	09/16/08	00:45
KW3FX	005	DUP	09/16/08	
KW3FO	006	TRIP BLANK	09/16/08	
KW4LV	007	TRIP BLANK	09/16/08	

**NOTE (S) :**

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

**QC DATA ASSOCIATION SUMMARY**

I8II170297

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
002	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
003	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
004	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121

(Continued on next page)

**QC DATA ASSOCIATION SUMMARY**

I8II170297

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
004	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
005	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
	006	WQ	SW846 8015B		8263237
WQ		SW846 8021B		8266527	8266300
007	WQ	SW846 8015B		8263237	8263133
	WQ	SW846 8021B		8266527	8266300

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

GC Volatiles

Lot-Sample #....: I8I170297-001 Work Order #....: KW3FG1A2 Matrix.....: WG  
Date Sampled....: 09/16/08 10:20 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/18/08  
Prep Batch #....: 8263237 Analysis Time...: 21:34  
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Gasoline Range Organics	ND	100	ug/L	29
<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY		
		<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene (GRO)	91	(85	-	120)

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-1 091608

## GC Volatiles

Lot-Sample #....: I8I170297-001 Work Order #....: KW3FG1AO Matrix.....: WG  
Date Sampled....: 09/16/08 10:20 Date Received...: 09/17/08  
Prep Date.....: 09/20/08 Analysis Date...: 09/20/08  
Prep Batch #....: 8266527 Analysis Time...: 16:21  
Dilution Factor: 1

Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
Bromofluorobenzene	107	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)	

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-1 091608

## GC Semivolatiles

Lot-Sample #....: I8I170297-001 Work Order #....: KW3FG1A1 Matrix.....: WG  
Date Sampled....: 09/16/08 10:20 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/22/08  
Prep Batch #....: 8262367 Analysis Time...: 23:03  
Dilution Factor: 0.96 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Diesel Range Organics	0.25	0.048	mg/L	0.0098
<hr/>				
SURROGATE	PERCENT	RECOVERY	LIMITS	
o-Terphenyl	96	(75 - 127)		
Dotriacontane	87	(41 - 142)		

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-1 091608

## TOTAL Metals

Lot-Sample #...: I8I170297-001

Matrix.....: WG

Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8263218						
Arsenic	0.014	0.010	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AC	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0025	
Barium	0.40	0.20	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AD	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AE	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.00048	
Chromium	0.0024 B	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AF	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AG	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0018	
Selenium	0.0072	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AH	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FG1AJ	
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08 KW3FG1AA	
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....: 0.000086	

NOTE (S) :

B Estimated result. Result is less than RL.

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-1 091608

## DISSOLVED Metals

Lot-Sample #....: I8I170297-001

Matrix.....: WG

Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 8266305						
Arsenic	0.0085 B	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AK
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0025
Barium	0.40	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AL
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AM
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AN
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AP
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0018
Selenium	0.0072	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AQ
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AR
		Dilution Factor: 1		Analysis Time...: 13:25	MDL.....	: 0.0013
Prep Batch #....: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FG1AT
		Dilution Factor: 1		Analysis Time...: 00:00	MDL.....	: 0.000086

NOTE (S) :

B Estimated result. Result is less than RL.

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-1 091608

General Chemistry

Lot-Sample #....: I8I170297-001 Work Order #....: KW3FG Matrix.....: WG  
 Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Chloride	1590	200	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor:	200	Analysis Time...: 13:26	MDL.....	: 5.2
Sulfate	154	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor:	200	Analysis Time...: 13:26	MDL.....	: 26.4
Total Alkalinity	146	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor:	1	Analysis Time...: 08:00	MDL.....	: 0.27
Total Dissolved Solids	3620	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor:	1	Analysis Time...: 16:34	MDL.....	: 11.4

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-2 091608

## GC Volatiles

Lot-Sample #....: I8I170297-002 Work Order #....: KW3FP1AD Matrix.....: WG  
Date Sampled....: 09/16/08 11:15 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/18/08  
Prep Batch #....: 8263237 Analysis Time...: 22:02  
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Gasoline Range Organics	ND	100	ug/L	29
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
4-Bromofluorobenzene (GRO)	RECOVERY	LIMITS	(85 - 120)	
	87			

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-2 091608

## GC Volatiles

Lot-Sample #....: I8I170297-002 Work Order #....: KW3FP1AA Matrix.....: WG  
 Date Sampled....: 09/16/08 11:15 Date Received...: 09/17/08  
 Prep Date.....: 09/20/08 Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527 Analysis Time...: 16:48  
 Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	108	(81 - 119)		
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

GC Semivolatiles

Lot-Sample #....: I8I170297-002 Work Order #....: KW3FP1AC Matrix.....: WG  
Date Sampled...: 09/16/08 11:15 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/22/08  
Prep Batch #....: 8262367 Analysis Time...: 23:36  
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diesel Range Organics	0.070	0.048	mg/L	0.0097
<hr/>				
<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY		
		<u>RECOVERY</u>	<u>LIMITS</u>	
o-Terphenyl	89	(75 - 127)		
Dotriacontane	78	(41 - 142)		

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-2 091608

## TOTAL Metals

Lot-Sample #...: I8I170297-002

Matrix.....: WG

Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.012	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FP1AF
		Dilution Factor: 1		Analysis Time...: 10:48	MDL.....	: 0.0025
Barium	0.12 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AG
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AH
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.00048
Chromium	0.0056	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AJ
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AK
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.0018
Selenium	0.0060	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AL
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AM
		Dilution Factor: 1		Analysis Time...: 17:29	MDL.....	: 0.0013
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FP1AE
		Dilution Factor: 1		Analysis Time...: 13:11	MDL.....	: 0.000086

NOTE(S) :

B Estimated result. Result is less than RL.

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-2 091608

## DISSOLVED Metals

Lot-Sample #....: I8I170297-002

Matrix.....: WG

Date Sampled...: 09/16/08 11:15 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	8266305					
Arsenic	0.011	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AN
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0025
Barium	0.094 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AP
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AQ
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AR
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AT
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0018
Selenium	0.0051	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AU
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AV
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....	: 0.0013
Prep Batch #....:	8269491					
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FP1AW
		Dilution Factor: 1		Analysis Time...: 00:00	MDL.....	: 0.000086

NOTE(S) :

B Estimated result. Result is less than RL.

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-2 091608

## General Chemistry

Lot-Sample #....: I8I170297-002 Work Order #....: KW3FP Matrix.....: WG  
 Date Sampled...: 09/16/08 11:15 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	182	100	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 100		Analysis Time...: 13:44	MDL.....: 2.6	
Sulfate	91.9	50.0	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 100		Analysis Time...: 13:44	MDL.....: 13.2	
Total Alkalinity	181	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time...: 08:00	MDL.....: 0.27	
Total Dissolved Solids	729	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time...: 16:36	MDL.....: 11.4	

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

## GC Volatiles

Lot-Sample #....: I8I170297-003 Work Order #....: KW3FQ1AD Matrix.....: WG  
Date Sampled....: 09/16/08 11:45 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/18/08  
Prep Batch #....: 8263237 Analysis Time...: 22:29  
Dilution Factor: 1 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29
SURROGATE	PERCENT	RECOVERY	LIMITS	(85 - 120)
	RECOVERY	LIMITS		
4-Bromofluorobenzene (GRO)	86			

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

## GC Volatiles

Lot-Sample #....: I8I170297-003 Work Order #....: KW3FQ1AA **Matrix.....: WG**  
 Date Sampled....: 09/16/08 11:45 Date Received...: 09/17/08  
 Prep Date.....: 09/20/08 Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527 Analysis Time...: 17:16  
 Dilution Factor: 1

Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	107	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)	

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

## GC Semivolatiles

Lot-Sample #....: I8I170297-003 Work Order #....: KW3FQ1AC Matrix.....: WG  
Date Sampled....: 09/16/08 11:45 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/23/08  
Prep Batch #....: 8262367 Analysis Time...: 00:09  
Dilution Factor: 0.96

Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Diesel Range Organics	0.073	0.048	mg/L	0.0098
<hr/>				
SURROGATE	PERCENT	RECOVERY	LIMITS	
o-Terphenyl	93	(75 - 127)		
Dotriacontane	82	(41 - 142)		

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

## TOTAL Metals

Lot-Sample #....: I8I170297-003

Matrix.....: WG

Date Sampled...: 09/16/08 11:45 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	8263218					
Arsenic	0.026	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FQ1AF
		Dilution Factor: 1		Analysis Time...: 10:54	MDL.....	: 0.0025
Barium	0.096 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AG
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AH
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AJ
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AK
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.0018
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AL
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AM
		Dilution Factor: 1		Analysis Time...: 17:36	MDL.....	: 0.0013
Prep Batch #....:	8269494					
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FQ1AE
		Dilution Factor: 1		Analysis Time...: 13:12	MDL.....	: 0.000086

NOTE (S) :

B Estimated result. Result is less than RL.

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

## DISSOLVED Metals

Lot-Sample #...: I8I170297-003

Matrix.....: WG

Date Sampled...: 09/16/08 11:45 Date Received...: 09/17/08

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>Prep Batch #...: 8266305</b>							
Arsenic	0.022	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AN	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0025	
Barium	0.086 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AP	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AQ	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AR	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AT	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AU	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AV	
		Dilution Factor: 1		Analysis Time...: 13:44	MDL.....	0.0013	
<b>Prep Batch #...: 8269491</b>							
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FQ1AW	
		Dilution Factor: 1		Analysis Time...: 00:00	MDL.....	0.000086	

**NOTE(S) :**

B Estimated result. Result is less than RL.

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-3 091608

**General Chemistry**

Lot-Sample #....: I8I170297-003 Work Order #....: KW3FQ Matrix.....: WG  
 Date Sampled...: 09/16/08 11:45 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	63.7	20.0	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 20		Analysis Time...: 14:01	MDL.....: 0.52	
Sulfate	31.8	20.0	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 20		Analysis Time...: 14:01	MDL.....: 2.6	
Total Alkalinity	222	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time...: 08:00	MDL.....: 0.27	
Total Dissolved Solids	457	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 11.4	

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

## GC Volatiles

Lot-Sample #....: I8I170297-004 Work Order #....: KW3FT1AD Matrix.....: WG  
Date Sampled....: 09/16/08 00:45 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/18/08  
Prep Batch #....: 8263237 Analysis Time...: 22:57  
Dilution Factor: 1

Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
4-Bromofluorobenzene (GRO)	90	(85 - 120)		

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

## GC Volatiles

Lot-Sample #....: I8I170297-004 Work Order #....: KW3FT1AA Matrix.....: WG  
 Date Sampled....: 09/16/08 00:45 Date Received...: 09/17/08  
 Prep Date.....: 09/20/08 Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527 Analysis Time...: 17:44  
 Dilution Factor: 1

Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	104	(81 - 119)		
a,a,a-Trifluorotoluene (TFT)	98	(72 - 127)		

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

## GC Semivolatiles

Lot-Sample #....: I8I170297-004 Work Order #....: KW3FT1AC Matrix.....: WG  
Date Sampled....: 09/16/08 00:45 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/23/08  
Prep Batch #....: 8262367 Analysis Time...: 00:42  
Dilution Factor: 0.96

Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.052	0.048	mg/L	0.0098
<hr/>				
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
o-Terphenyl	98	(75 - 127)		
Dotriacontane	84	(41 - 142)		

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

**TOTAL Metals**

Lot-Sample #....: I8I170297-004

Matrix.....: WG

Date Sampled...: 09/16/08 00:45 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	8263218					
Arsenic	0.018	0.010	mg/L	SW846 6010B	09/19-09/23/08 KW3FT1AF	
		Dilution Factor: 1		Analysis Time...: 11:01	MDL.....: 0.0025	
Barium	0.092 B	0.20	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AG	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AH	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AJ	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AK	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AL	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08 KW3FT1AM	
		Dilution Factor: 1		Analysis Time...: 17:42	MDL.....: 0.0013	
Prep Batch #....:	8269494					
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08 KW3FT1AE	
		Dilution Factor: 1		Analysis Time...: 13:14	MDL.....: 0.000086	

NOTE (S) :

B Estimated result. Result is less than RL.

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

## DISSOLVED Metals

Lot-Sample #....: I8I170297-004

Matrix.....: WG

Date Sampled...: 09/16/08 00:45 Date Received...: 09/17/08

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
<b>Prep Batch #....: 8266305</b>						
Arsenic	0.016	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AN
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0025
Barium	0.090 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AP
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AQ
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AR
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AT
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0018
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AU
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AV
		Dilution Factor: 1		Analysis Time...: 13:49	MDL.....	: 0.0013
<b>Prep Batch #....: 8269491</b>						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FT1AW
		Dilution Factor: 1		Analysis Time...: 00:00	MDL.....	: 0.000086

NOTE (S) :

B Estimated result. Result is less than RL.

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: MW-4 091608

## General Chemistry

Lot-Sample #....: I8I170297-004 Work Order #....: KW3FT Matrix.....: WG  
 Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	4420	500	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor:	500	Analysis Time...: 20:19	MDL.....: 13.0	
Sulfate	136	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor:	200	Analysis Time...: 14:19	MDL.....: 26.4	
Total Alkalinity	196	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor:	1	Analysis Time...: 08:00	MDL.....: 0.27	
Total Dissolved Solids	8140	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor:	1	Analysis Time...: 16:40	MDL.....: 11.4	

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: DUP

## GC Volatiles

Lot-Sample #....: I8I170297-005    Work Order #....: KW3FX1AD    Matrix.....: WG  
Date Sampled....: 09/16/08    Date Received...: 09/17/08  
Prep Date.....: 09/18/08    Analysis Date...: 09/18/08  
Prep Batch #....: 8263237    Analysis Time...: 23:24  
Dilution Factor: 1            Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Gasoline Range Organics	ND	100	ug/L	29
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene (GRO)	85	(85 - 120)		

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: DUP

## GC Volatiles

Lot-Sample #....: I8I170297-005    Work Order #....: KW3FX1AA    Matrix.....: WG  
 Date Sampled...: 09/16/08              Date Received...: 09/17/08  
 Prep Date.....: 09/20/08              Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527             Analysis Time...: 18:12  
 Dilution Factor: 1                      Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	105	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)	

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: DUP

## GC Semivolatiles

Lot-Sample #....: I8I170297-005    Work Order #....: KW3FX1AC    Matrix.....: WG  
Date Sampled....: 09/16/08    Date Received...: 09/17/08  
Prep Date.....: 09/18/08    Analysis Date...: 09/23/08  
Prep Batch #....: 8262367    Analysis Time...: 01:15  
Dilution Factor: 0.96    Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diesel Range Organics	0.052	0.048	mg/L	0.0098
<hr/>				
<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY		<u>LIMITS</u>
		<u>RECOVERY</u>		
o-Terphenyl	99	(75 - 127)		
Dotriacontane	85	(41 - 142)		

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: DUP

## TOTAL Metals

Lot-Sample #...: I8I170297-005

Matrix.....: WG

Date Sampled...: 09/16/08

Date Received..: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8263218						
Arsenic	0.019	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FX1AF
		Dilution Factor: 1		Analysis Time..: 11:07	MDL.....	: 0.0025
Barium	0.088 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AG
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AH
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AJ
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AK
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.0018
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AL
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AM
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....	: 0.0013
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FX1AE
		Dilution Factor: 1		Analysis Time..: 13:15	MDL.....	: 0.000086

NOTE (S) :

B Estimated result. Result is less than RL.

## Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: DUP

## DISSOLVED Metals

Lot-Sample #....: I8I170297-005

Matrix.....: WG

Date Sampled...: 09/16/08

Date Received...: 09/17/08

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....: 8266305							
Arsenic	0.017	0.010	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AN
					Analysis Time...: 13:54	MDL.....	: 0.0025
Barium	0.089 B	0.20	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AP
					Analysis Time...: 13:54	MDL.....	: 0.0020
Cadmium	ND	0.0020	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AQ
					Analysis Time...: 13:54	MDL.....	: 0.00048
Chromium	ND	0.0050	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AR
					Analysis Time...: 13:54	MDL.....	: 0.0012
Lead	ND	0.0030	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AT
					Analysis Time...: 13:54	MDL.....	: 0.0018
Selenium	ND	0.0050	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AU
					Analysis Time...: 13:54	MDL.....	: 0.0042
Silver	ND	0.0050	mg/L	Dilution Factor: 1	SW846 6010B	09/22-09/23/08	KW3FX1AV
					Analysis Time...: 13:54	MDL.....	: 0.0013
Prep Batch #....: 8269491							
Mercury	ND	0.00020	mg/L	Dilution Factor: 1	SW846 7470A	09/25-09/26/08	KW3FX1AW
					Analysis Time...: 00:00	MDL.....	: 0.000086

NOTE(S) :

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

General Chemistry

Lot-Sample #....: I8I170297-005      Work Order #....: KW3FX      Matrix.....: WG  
 Date Sampled...: 09/16/08      Date Received...: 09/17/08

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	4210	500	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor:	500	Analysis Time...: 20:37	MDL.....:	13.0
Sulfate	135	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor:	200	Analysis Time...: 14:37	MDL.....:	26.4
Total Alkalinity	202	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor:	1	Analysis Time...: 08:00	MDL.....:	0.27
Total Dissolved Solids	7940	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor:	1	Analysis Time...: 16:42	MDL.....:	11.4

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: TRIP BLANK

## GC Volatiles

Lot-Sample #....: I8I170297-006 Work Order #....: KW3F01AC Matrix.....: WQ  
Date Sampled....: 09/16/08 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/18/08  
Prep Batch #....: 8263237 Analysis Time...: 23:52  
Dilution Factor: 1

Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29
SURROGATE	PERCENT	RECOVERY	LIMITS	
4-Bromofluorobenzene (GRO)	RECOVERY	(85 - 120)		
	91			

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I8I170297-006    Work Order #....: KW3F01AA    Matrix.....: WQ  
 Date Sampled....: 09/16/08    Date Received...: 09/17/08  
 Prep Date.....: 09/20/08    Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527    Analysis Time...: 18:39  
 Dilution Factor: 1

Method.....: SW846 8021B

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	105	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)	

Conestoga-Rovers &amp; Associates, Inc.

Client Sample ID: TRIP BLANK

## GC Volatiles

Lot-Sample #....: I8I170297-007 Work Order #....: KW4LV1AC Matrix.....: WQ  
Date Sampled....: 09/16/08 Date Received...: 09/17/08  
Prep Date.....: 09/18/08 Analysis Date...: 09/19/08  
Prep Batch #....: 8263237 Analysis Time...: 00:19  
Dilution Factor: 1 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
Gasoline Range Organics	ND	100	ug/L	29
SURROGATE	PERCENT RECOVERY	RECOVERY		LIMITS (85 - 120)
		LIMITS (85 - 120)		
4-Bromofluorobenzene (GRO)	88			

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I8I170297-007    Work Order #....: KW4LV1AA    Matrix.....: WQ  
 Date Sampled....: 09/16/08    Date Received...: 09/17/08  
 Prep Date.....: 09/20/08    Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527    Analysis Time...: 19:07  
 Dilution Factor: 1  
 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>REPORTING</u>		
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	0.0010	mg/L
Toluene	ND	0.0010	mg/L
Ethylbenzene	ND	0.0010	mg/L
Xylenes (total)	ND	0.0030	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	107	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)

## METHOD BLANK REPORT

## GC Volatiles

Client Lot #....: I8I170297      Work Order #....: KW7PG1AA      Matrix.....: WATER  
MB Lot-Sample #: I8I190000-237

Analysis Date...: 09/18/08      Prep Date.....: 09/18/08      Analysis Time...: 11:44  
Dilution Factor: 1      Prep Batch #....: 8263237

PARAMETER	RESULT	REPORTING		METHOD	
		LIMIT	UNITS		
Gasoline Range Organics	ND	100	ug/L	SW846 8015B	
SURROGATE		PERCENT	RECOVERY		
4-Bromofluorobenzene (GRO)		RECOVERY	LIMITS		
		90	(85 - 120)		

## NOTE (S) :

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

## METHOD BLANK REPORT

## GC Volatiles

Client Lot #...: I8I170297      Work Order #...: KXD1C1AA      Matrix.....: WATER  
MB Lot-Sample #: I8I220000-527  
  
Analysis Date...: 09/20/08      Prep Date.....: 09/20/08      Analysis Time...: 15:25  
Dilution Factor: 1      Prep Batch #: 8266527

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	0.0010	mg/L	SW846 8021B
Toluene	ND	0.0010	mg/L	SW846 8021B
Ethylbenzene	ND	0.0010	mg/L	SW846 8021B
Xylenes (total)	ND	0.0030	mg/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
Bromofluorobenzene	104	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	95	(72 - 127)

NOTE(S) :

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

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: I8I170297  
MB Lot-Sample #: I8I180000-367  
Analysis Date...: 09/22/08  
Dilution Factor: 1

Work Order #....: KW5KF1AA  
Prep Date.....: 09/18/08  
Prep Batch #....: 8262367

Matrix.....: WATER  
Analysis Time...: 18:05

<u>PARAMETER</u>	REPORTING			<u>METHOD</u>
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B
<hr/>				
<u>SURROGATE</u>	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
o-Terphenyl	87	(75 - 127)		
Dotriacontane	73	(41 - 142)		

NOTE (S) :

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

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: I8I170297

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: I8I190000-218 Prep Batch #...: 8263218</b>						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AA
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Barium	ND	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AC
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AD
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AE
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AF
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AG
		Dilution Factor: 1				
		Analysis Time...: 15:52				
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AH
		Dilution Factor: 1				
		Analysis Time...: 15:52				
<b>MB Lot-Sample #: I8I250000-494 Prep Batch #...: 8269494</b>						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KXMFPIAA
		Dilution Factor: 1				
		Analysis Time...: 13:00				

NOTE (S) :

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

## METHOD BLANK REPORT

## DISSOLVED Metals

Client Lot #...: I8I170297

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #: I8I220000-305		Prep Batch #...: 8266305				
Arsenic	ND	0.010	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AA
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Barium	ND	0.20	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AC
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AD
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AE
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AF
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AG
		Dilution Factor: 1				
		Analysis Time...: 11:47				
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AH
		Dilution Factor: 1				
		Analysis Time...: 11:47				
MB Lot-Sample #: I8I250000-491		Prep Batch #...: 8269491				
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KXMFF1AA
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S) :

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

## METHOD BLANK REPORT

## General Chemistry

Client Lot #...: I8I170297

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	PREP
		LIMIT	UNITS			ANALYSIS DATE	BATCH #
Chloride	ND	Work Order #: KW6481AA	MB Lot-Sample #:	KW6481AA	MB Lot-Sample #: I8I190000-104	09/18/08	8263104
		1.0	mg/L	MCAWW 300.0A			
		Dilution Factor:	1				
		Analysis Time...:	08:21				
Sulfate	ND	Work Order #: KW6451AA	MB Lot-Sample #:	KW6451AA	MB Lot-Sample #: I8I190000-099	09/18/08	8263099
		0.50	mg/L	MCAWW 300.0A			
		Dilution Factor:	1				
		Analysis Time...:	08:21				
Total Alkalinity	ND	Work Order #: KW7A11AA	MB Lot-Sample #:	KW7A11AA	MB Lot-Sample #: I8I190000-153	09/19/08	8263153
		5.0	mg/L	SM19 2320 B			
		Dilution Factor:	1				
		Analysis Time...:	08:00				
Total Dissolved Solids	ND	Work Order #: KXDWT1AA	MB Lot-Sample #:	KXDWT1AA	MB Lot-Sample #: I8I220000-477	09/22/08	8266477
		40.0	mg/L	SM19 2540 C			
		Dilution Factor:	1				
		Analysis Time...:	16:00				

NOTE (S) :

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>
Gasoline Range Organics	99	(81 - 117)		SW846 8015B
	88	(81 - 117)	12	(0-20) SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	96	(85 - 122)
	96	(85 - 122)

**NOTE (S) :**

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

**Bold print** denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Volatiles

Client Lot #....: I8I170297      Work Order #....: KW7PG1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: I8I190000-237      KW7PG1AD-LCSD  
Prep Date.....: 09/18/08      Analysis Date...: 09/18/08  
Prep Batch #....: 8263237      Analysis Time..: 12:17  
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCENT</u>		<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>	<u>RPD</u>	
Gasoline Range Organics	2000	1970	ug/L	99		SW846 8015B
	2000	1750	ug/L	88	12	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>			
4-Bromofluorobenzene (GRO)		<u>RECOVERY</u>	<u>LIMITS</u>			
		96	(85 - 122)			
		96	(85 - 122)			

NOTE (S) :

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Volatiles

Client Lot #...: I8I170297      Work Order #...: KXD1C1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: I8I220000-527      KXD1C1AD-LCSD  
 Prep Date.....: 09/20/08      Analysis Date...: 09/20/08  
 Prep Batch #...: 8266527      Analysis Time...: 14:06  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>
Benzene	96	(80 - 115)			SW846 8021B
	97	(80 - 115)	1.1	(0-20)	SW846 8021B
Toluene	98	(85 - 115)			SW846 8021B
	99	(85 - 115)	0.36	(0-20)	SW846 8021B
Ethylbenzene	99	(81 - 115)			SW846 8021B
	97	(81 - 115)	1.5	(0-20)	SW846 8021B
Xylenes (total)	103	(86 - 119)			SW846 8021B
	102	(86 - 119)	1.6	(0-20)	SW846 8021B
<hr/>					
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>			
Bromofluorobenzene	110	(85 - 111)			
a,a,a-Trifluorotoluene (TFT)	109	(85 - 111)			
	98	(86 - 107)			
	98	(86 - 107)			

NOTE(S) :

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Volatiles

Client Lot #....: I8I170297      Work Order #....: KXD1C1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: I8I220000-527      KXD1C1AD-LCSD  
 Prep Date.....: 09/20/08      Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527      Analysis Time..: 14:06  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>mg/L</u>	<u>RECOVERY</u>		
Benzene	0.0200	0.0192	mg/L	96	1.1	SW846 8021B
	0.0200	0.0194	mg/L	97		SW846 8021B
Toluene	0.0200	0.0197	mg/L	98	0.36	SW846 8021B
	0.0200	0.0198	mg/L	99		SW846 8021B
Ethylbenzene	0.0200	0.0198	mg/L	99	1.5	SW846 8021B
	0.0200	0.0195	mg/L	97		SW846 8021B
Xylenes (total)	0.0600	0.0621	mg/L	103	1.6	SW846 8021B
	0.0600	0.0611	mg/L	102		SW846 8021B
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>			
		<u>RECOVERY</u>	<u>LIMITS</u>			
Bromofluorobenzene		110	(85 - 111)			
a,a,a-Trifluorotoluene		109	(85 - 111)			
(TFT)		98	(86 - 107)			
		98	(86 - 107)			

NOTE (S) :

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: I8I170297      Work Order #....: KW5KF1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: I8I180000-367      KW5KF1AD-LCSD  
 Prep Date.....: 09/18/08      Analysis Date...: 09/22/08  
 Prep Batch #....: 8262367      Analysis Time..: 18:38  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	
Diesel Range Organics	87	(56 - 120)		SW846 8015B
	81	(56 - 120)	6.9	(0-20) SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	113	(75 - 127)
	117	(75 - 127)
Dotriaccontane	86	(41 - 142)
	76	(41 - 142)

NOTE(S) :

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #....: I8I170297      Work Order #....: KW5KF1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: I8I180000-367      KW5KF1AD-LCSD  
 Prep Date.....: 09/18/08      Analysis Date...: 09/22/08  
 Prep Batch #....: 8262367      Analysis Time...: 18:38  
 Dilution Factor: 1

PARAMETER	SPIKE	MEASURED		PERCENT		METHOD
	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	
Diesel Range Organics	1.00	0.866	mg/L	87		SW846 8015B
	1.00	0.808	mg/L	81	6.9	SW846 8015B

SURROGATE	RECOVERY	PERCENT	RECOVERY
		RECOVERY	LIMITS
o-Terphenyl	113	(75 - 127)	
	117	(75 - 127)	
Dotriacontane	86	(41 - 142)	
	76	(41 - 142)	

NOTE (S) :

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: I8I170297

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	I8I190000-218	Prep Batch #...: 8263218			
Arsenic	101	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AJ	
		Dilution Factor: 1		Analysis Time...: 15:59	
Barium	99	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AK	
		Dilution Factor: 1		Analysis Time...: 15:59	
Cadmium	101	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AL	
		Dilution Factor: 1		Analysis Time...: 15:59	
Chromium	96	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AM	
		Dilution Factor: 1		Analysis Time...: 15:59	
Lead	100	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AN	
		Dilution Factor: 1		Analysis Time...: 15:59	
Selenium	105	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AP	
		Dilution Factor: 1		Analysis Time...: 15:59	
Silver	100	(80 - 120)	SW846 6010B	09/19-09/22/08 KW7LK1AQ	
		Dilution Factor: 1		Analysis Time...: 15:59	
LCS Lot-Sample#:	I8I250000-494	Prep Batch #...: 8269494			
Mercury	99	(80 - 120)	SW846 7470A	09/25-09/26/08 KXMFPIAC	
		Dilution Factor: 1		Analysis Time...: 13:01	

NOTE(S) :

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

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I8I170297

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	WORK ANALYSIS DATE	ORDER #
<b>LCS Lot-Sample#: I8I190000-218 Prep Batch #...: 8263218</b>							
Arsenic	0.500	0.505	mg/L	101	SW846 6010B	09/19-09/22/08	KW7LK1AJ
				Dilution Factor: 1		Analysis Time...: 15:59	
Barium	0.500	0.494	mg/L	99	SW846 6010B	09/19-09/22/08	KW7LK1AK
				Dilution Factor: 1		Analysis Time...: 15:59	
Cadmium	0.500	0.503	mg/L	101	SW846 6010B	09/19-09/22/08	KW7LK1AL
				Dilution Factor: 1		Analysis Time...: 15:59	
Chromium	0.500	0.481	mg/L	96	SW846 6010B	09/19-09/22/08	KW7LK1AM
				Dilution Factor: 1		Analysis Time...: 15:59	
Lead	0.500	0.501	mg/L	100	SW846 6010B	09/19-09/22/08	KW7LK1AN
				Dilution Factor: 1		Analysis Time...: 15:59	
Selenium	0.500	0.525	mg/L	105	SW846 6010B	09/19-09/22/08	KW7LK1AP
				Dilution Factor: 1		Analysis Time...: 15:59	
Silver	0.100	0.0996	mg/L	100	SW846 6010B	09/19-09/22/08	KW7LK1AQ
				Dilution Factor: 1		Analysis Time...: 15:59	
<b>LCS Lot-Sample#: I8I250000-494 Prep Batch #...: 8269494</b>							
Mercury	0.00500	0.00497	mg/L	99	SW846 7470A	09/25-09/26/08	KXMFPIAC
				Dilution Factor: 1		Analysis Time...: 13:01	

NOTE(S) :

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #....: I8I170297

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> I8I220000-305 <b>Prep Batch #....:</b> 8266305					
Arsenic	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AJ Dilution Factor: 1 Analysis Time...: 11:51
Barium	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AK Dilution Factor: 1 Analysis Time...: 11:51
Cadmium	100	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AL Dilution Factor: 1 Analysis Time...: 11:51
Chromium	95	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AM Dilution Factor: 1 Analysis Time...: 11:51
Lead	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AN Dilution Factor: 1 Analysis Time...: 11:51
Selenium	102	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AP Dilution Factor: 1 Analysis Time...: 11:51
Silver	97	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AQ Dilution Factor: 1 Analysis Time...: 11:51
<b>LCS Lot-Sample#:</b> I8I250000-491 <b>Prep Batch #....:</b> 8269491					
Mercury	99	(80 - 120)	SW846 7470A	09/25-09/26/08	KXMF1AC Dilution Factor: 1 Analysis Time...: 00:00

NOTE(S) :

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

## LABORATORY CONTROL SAMPLE DATA REPORT

## DISSOLVED Metals

Client Lot #...: I8I170297

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	WORK ANALYSIS DATE	ORDER #
<b>LCS Lot-Sample#: I8I220000-305 Prep Batch #...: 8266305</b>							
Arsenic	0.500	0.491	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AJ
			Dilution Factor: 1		Analysis Time...: 11:51		
Barium	0.500	0.492	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AK
			Dilution Factor: 1		Analysis Time...: 11:51		
Cadmium	0.500	0.498	mg/L	100	SW846 6010B	09/22-09/23/08	KXDGM1AL
			Dilution Factor: 1		Analysis Time...: 11:51		
Chromium	0.500	0.474	mg/L	95	SW846 6010B	09/22-09/23/08	KXDGM1AM
			Dilution Factor: 1		Analysis Time...: 11:51		
Lead	0.500	0.490	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AN
			Dilution Factor: 1		Analysis Time...: 11:51		
Selenium	0.500	0.512	mg/L	102	SW846 6010B	09/22-09/23/08	KXDGM1AP
			Dilution Factor: 1		Analysis Time...: 11:51		
Silver	0.100	0.0971	mg/L	97	SW846 6010B	09/22-09/23/08	KXDGM1AQ
			Dilution Factor: 1		Analysis Time...: 11:51		
<b>LCS Lot-Sample#: I8I250000-491 Prep Batch #...: 8269491</b>							
Mercury	0.00500	0.00496	mg/L	99	SW846 7470A	09/25-09/26/08	KXMFF1AC
			Dilution Factor: 1		Analysis Time...: 00:00		

NOTE (S) :

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #....: I8I170297

Matrix.....: WATER

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD		LIMITS	ANALYSIS DATE
Total Alkalinity			WO#: KW7A11AC-LCS/KW7A11AD-LCSD	LCS	Lot-Sample#:	I8I190000-153
	103	(90 - 110)		SM19 2320 B	09/19/08	8263153
	103	(90 - 110)	0.01 (0-20)	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time...: 08:00		

## NOTE(S) :

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

## LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #....: I8I170297

Matrix.....: WATER

PARAMETER	SPIKE	MEASURED	PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT	UNITS	RECVRY	RPD		ANALYSIS DATE	BATCH #
Total Alkalinity			WO#:	KW7A11AC-LCS/KW7A11AD-LCSD	LCS	Lot-Sample#:	I8I190000-153	
	100	103	mg/L	103		SM19 2320 B	09/19/08	8263153
	100	103	mg/L	103	0.01	SM19 2320 B	09/19/08	8263153
			Dilution Factor:	1		Analysis Time...: 08:00		

## NOTE (S) :

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: I8I170297

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	93	(90 - 110)	Work Order #: KW6481AC LCS Lot-Sample#: I8I190000-104 MCAWW 300.0A	09/18/08	8263104
			Dilution Factor: 1 Analysis Time...: 13:08		
Sulfate	101	(90 - 110)	Work Order #: KW6451AC LCS Lot-Sample#: I8I190000-099 MCAWW 300.0A	09/18/08	8263099
			Dilution Factor: 1 Analysis Time...: 08:39		
Total Dissolved Solids	96	(87 - 113)	Work Order #: KXDWT1AC LCS Lot-Sample#: I8I220000-477 SM19 2540 C	09/22/08	8266477
			Dilution Factor: 1 Analysis Time...: 16:02		

NOTE (S) :

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

## LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Client Lot #....: I8I170297

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	4.00	3.71	mg/L	93 MCAWW 300.0A	09/18/08	8263104
				Dilution Factor: 1	Analysis Time...: 13:08	
Sulfate	4.00	4.05	mg/L	101 MCAWW 300.0A	09/18/08	8263099
				Dilution Factor: 1	Analysis Time...: 08:39	
Total Dissolved Solids	2010	1940	mg/L	96 SM19 2540 C	09/22/08	8266477
				Dilution Factor: 1	Analysis Time...: 16:02	

NOTE(S) :

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

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Volatiles

Client Lot #....: I8I170297      Work Order #....: KW3FG1DW-MS      Matrix.....: WG  
 MS Lot-Sample #: I8I170297-001      KW3FG1DX-MSD  
 Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08  
 Prep Date.....: 09/20/08      Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527      Analysis Time...: 19:35  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>
Benzene	115	(80 - 115)			SW846 8021B
Toluene	117 a	(80 - 115)	2.1	(0-20)	SW846 8021B
Ethylbenzene	115	(85 - 115)			SW846 8021B
	119 a	(85 - 115)	2.8	(0-20)	SW846 8021B
Xylenes (total)	111	(81 - 115)			SW846 8021B
	115	(81 - 115)	3.7	(0-20)	SW846 8021B
	115	(86 - 119)			SW846 8021B
	119	(86 - 119)	3.2	(0-20)	SW846 8021B
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>			
Bromofluorobenzene	110	(81 - 119)			
a,a,a-Trifluorotoluene (TFT)	109	(81 - 119)			
	99	(72 - 127)			
	100	(72 - 127)			

NOTE (S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

## GC Volatiles

Client Lot #....: I8I170297      Work Order #....: KW3FG1DW-MS      Matrix.....: WG  
 MS Lot-Sample #: I8I170297-001      KW3FG1DX-MSD  
 Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08  
 Prep Date.....: 09/20/08      Analysis Date...: 09/20/08  
 Prep Batch #....: 8266527      Analysis Time...: 19:35  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>SPIKE</u>	<u>MEASRD</u>	<u>UNITS</u>	<u>PERCNT</u>		<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMT</u>	<u>AMOUNT</u>		<u>RECVRY</u>	<u>RPD</u>	
Benzene	ND	0.0200	0.0230	mg/L	115		SW846 8021B
	ND	0.0200	0.0235	mg/L	117	a 2.1	
Toluene	ND	0.0200	0.0231	mg/L	115		SW846 8021B
	ND	0.0200	0.0238	mg/L	119	a 2.8	
Ethylbenzene	ND	0.0200	0.0222	mg/L	111		SW846 8021B
	ND	0.0200	0.0231	mg/L	115	3.7	
Xylenes (total)	ND	0.0600	0.0691	mg/L	115		SW846 8021B
	ND	0.0600	0.0713	mg/L	119	3.2	

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	110	(81 - 119)
	109	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)
	100	(72 - 127)

NOTE (S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I8I170297

Matrix.....: WG

Date Sampled....: 09/16/08 10:20 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: I8I170297-001 Prep Batch #....: 8263218</b>							
Arsenic	96	(75 - 125)		SW846 6010B		09/19-09/23/08 KW3FG1A4	
	96	(75 - 125) 0.36 (0-20)	0.36	SW846 6010B	Dilution Factor: 1	09/19-09/23/08 KW3FG1A5	
					Analysis Time...: 10:35		
Barium	103	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1A6	
	101	(75 - 125) 1.2 (0-20)	1.2	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1A7	
					Analysis Time...: 17:16		
Cadmium	98	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1A8	
	96	(75 - 125) 1.9 (0-20)	1.9	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1A9	
					Analysis Time...: 17:16		
Chromium	96	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1CA	
	94	(75 - 125) 2.0 (0-20)	2.0	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1CC	
					Analysis Time...: 17:16		
Lead	99	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1CD	
	97	(75 - 125) 1.7 (0-20)	1.7	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1CE	
					Analysis Time...: 17:16		
Selenium	103	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1CF	
	100	(75 - 125) 2.7 (0-20)	2.7	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1CG	
					Analysis Time...: 17:16		
Silver	105	(75 - 125)		SW846 6010B		09/19-09/22/08 KW3FG1CH	
	103	(75 - 125) 1.7 (0-20)	1.7	SW846 6010B	Dilution Factor: 1	09/19-09/22/08 KW3FG1CJ	
					Analysis Time...: 17:16		
<b>MS Lot-Sample #: I8I170297-001 Prep Batch #....: 8269494</b>							
Mercury	100	(75 - 125)		SW846 7470A		09/25-09/26/08 KW3FG1D0	
	102	(75 - 125) 1.9 (0-20)	1.9	SW846 7470A	Dilution Factor: 1	09/25-09/26/08 KW3FG1D1	
					Analysis Time...: 13:04		

NOTE(S) :

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

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: I8I170297

Matrix.....: WG

Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: I8I170297-001 Prep Batch #....: 8263218</b>									
Arsenic									
	0.014	0.500	0.494	mg/L	96		SW846 6010B	09/19-09/23/08	KW3FG1A4
	0.014	0.500	0.492	mg/L	96	0.36	SW846 6010B	09/19-09/23/08	KW3FG1A5
	Dilution Factor: 1								
	Analysis Time...: 10:35								
Barium									
	0.40	0.500	0.915	mg/L	103		SW846 6010B	09/19-09/22/08	KW3FG1A6
	0.40	0.500	0.904	mg/L	101	1.2	SW846 6010B	09/19-09/22/08	KW3FG1A7
	Dilution Factor: 1								
	Analysis Time...: 17:16								
Cadmium									
	ND	0.500	0.488	mg/L	98		SW846 6010B	09/19-09/22/08	KW3FG1A8
	ND	0.500	0.479	mg/L	96	1.9	SW846 6010B	09/19-09/22/08	KW3FG1A9
	Dilution Factor: 1								
	Analysis Time...: 17:16								
Chromium									
	0.0024	0.500	0.482	mg/L	96		SW846 6010B	09/19-09/22/08	KW3FG1CA
	0.0024	0.500	0.472	mg/L	94	2.0	SW846 6010B	09/19-09/22/08	KW3FG1CC
	Dilution Factor: 1								
	Analysis Time...: 17:16								
Lead									
	ND	0.500	0.493	mg/L	99		SW846 6010B	09/19-09/22/08	KW3FG1CD
	ND	0.500	0.484	mg/L	97	1.7	SW846 6010B	09/19-09/22/08	KW3FG1CE
	Dilution Factor: 1								
	Analysis Time...: 17:16								
Selenium									
	0.0072	0.500	0.523	mg/L	103		SW846 6010B	09/19-09/22/08	KW3FG1CF
	0.0072	0.500	0.509	mg/L	100	2.7	SW846 6010B	09/19-09/22/08	KW3FG1CG
	Dilution Factor: 1								
	Analysis Time...: 17:16								
Silver									
	ND	0.100	0.105	mg/L	105		SW846 6010B	09/19-09/22/08	KW3FG1CH
	ND	0.100	0.103	mg/L	103	1.7	SW846 6010B	09/19-09/22/08	KW3FG1CJ
	Dilution Factor: 1								
	Analysis Time...: 17:16								

MS Lot-Sample #: I8I170297-001 Prep Batch #....: 8269494  
 (Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I8I170297

Matrix.....: WG

Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-	WORK	ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		ANALYSIS DATE	
Mercury	ND	0.00200	0.00201	mg/L	100		SW846 7470A	09/25-09/26/08	KW3FG1D0
	ND	0.00200	0.00205	mg/L	102	1.9	SW846 7470A	09/25-09/26/08	KW3FG1D1

Dilution Factor: 1  
Analysis Time...: 13:04

## NOTE(S) :

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

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #....: I8I170297

Matrix.....: WATER

Date Sampled...: 09/11/08 15:10 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: I8I170184-002 Prep Batch #...: 8266305</b>							
Arsenic	100	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1A0
	101	(75 - 125) 0.98 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1A1
					Analysis Time...: 12:10		
Barium	102	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1A2
	104	(75 - 125) 2.2 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1A3
					Analysis Time...: 12:10		
Cadmium	90	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1A4
	91	(75 - 125) 1.0 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1A5
					Analysis Time...: 12:10		
Chromium	91	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1A6
	92	(75 - 125) 0.88 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1A7
					Analysis Time...: 12:10		
Lead	92	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1A8
	92	(75 - 125) 0.51 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1A9
					Analysis Time...: 12:10		
Selenium	110	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1CA
	112	(75 - 125) 2.0 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1CC
					Analysis Time...: 12:10		
Silver	104	(75 - 125)		SW846 6010B		09/22-09/23/08	KW2PG1CD
	106	(75 - 125) 2.3 (0-20)		SW846 6010B	Dilution Factor: 1	09/22-09/23/08	KW2PG1CE
					Analysis Time...: 12:10		
<b>MS Lot-Sample #: I8I170184-002 Prep Batch #...: 8269491</b>							
Mercury	63 N	(75 - 125)		SW846 7470A		09/25-09/26/08	KW2PG1CF
	60 N	(75 - 125) 4.9 (0-20)		SW846 7470A	Dilution Factor: 1	09/25-09/26/08	KW2PG1CG
					Analysis Time...: 12:26		

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

## DISSOLVED Metals

Client Lot #....: I8I170297

Matrix.....: WATER

Date Sampled...: 09/11/08 15:10 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: I8I170184-002 Prep Batch #....: 8266305</b>									
Arsenic									
	0.019	0.500	0.521	mg/L	100		SW846	6010B	09/22-09/23/08 KW2PG1A0
	0.019	0.500	0.526	mg/L	101	0.98	SW846	6010B	09/22-09/23/08 KW2PG1A1
Dilution Factor: 1									
Analysis Time...: 12:10									
Barium									
	0.011	0.500	0.518	mg/L	102		SW846	6010B	09/22-09/23/08 KW2PG1A2
	0.011	0.500	0.530	mg/L	104	2.2	SW846	6010B	09/22-09/23/08 KW2PG1A3
Dilution Factor: 1									
Analysis Time...: 12:10									
Cadmium									
	ND	0.500	0.449	mg/L	90		SW846	6010B	09/22-09/23/08 KW2PG1A4
	ND	0.500	0.454	mg/L	91	1.0	SW846	6010B	09/22-09/23/08 KW2PG1A5
Dilution Factor: 1									
Analysis Time...: 12:10									
Chromium									
	ND	0.500	0.457	mg/L	91		SW846	6010B	09/22-09/23/08 KW2PG1A6
	ND	0.500	0.461	mg/L	92	0.88	SW846	6010B	09/22-09/23/08 KW2PG1A7
Dilution Factor: 1									
Analysis Time...: 12:10									
Lead									
	0.0026	0.500	0.462	mg/L	92		SW846	6010B	09/22-09/23/08 KW2PG1A8
	0.0026	0.500	0.464	mg/L	92	0.51	SW846	6010B	09/22-09/23/08 KW2PG1A9
Dilution Factor: 1									
Analysis Time...: 12:10									
Selenium									
	0.0052	0.500	0.555	mg/L	110		SW846	6010B	09/22-09/23/08 KW2PG1CA
	0.0052	0.500	0.566	mg/L	112	2.0	SW846	6010B	09/22-09/23/08 KW2PG1CC
Dilution Factor: 1									
Analysis Time...: 12:10									
Silver									
	ND	0.100	0.104	mg/L	104		SW846	6010B	09/22-09/23/08 KW2PG1CD
	ND	0.100	0.106	mg/L	106	2.3	SW846	6010B	09/22-09/23/08 KW2PG1CE
Dilution Factor: 1									
Analysis Time...: 12:10									

MS Lot-Sample #: I8I170184-002 Prep Batch #....: 8269491  
(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## DISSOLVED Metals

Client Lot #...: I8I170297

Matrix.....: WATER

Date Sampled...: 09/11/08 15:10 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Mercury	ND	0.00200	0.00126	mg/L	63		SW846 7470A	09/25-09/26/08	KW2PG1CF
				Qualifiers: N					
	ND	0.00200	0.00120	mg/L	60	4.9	SW846 7470A	09/25-09/26/08	KW2PG1CG
				Qualifiers: N					
				Dilution Factor: 1					
				Analysis Time..: 12:26					

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: I8I170297

Matrix.....: WATER

Date Sampled...: 09/17/08 11:02 Date Received..: 09/17/08

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Chloride		WO#: KW4E01AR-MS/KW4E01AT-MSD		MS	Lot-Sample #:	I8I170320-010
	76 N	(90 - 110)		MCAWW 300.0A	09/18/08	8263104
	85 N	(90 - 110)	7.3 (0-20)	MCAWW 300.0A	09/18/08	8263104
			Dilution Factor: 50			
			Analysis Time...: 19:25			
Sulfate		WO#: KW4E01AP-MS/KW4E01AQ-MSD		MS	Lot-Sample #:	I8I170320-010
	78 N	(90 - 110)		MCAWW 300.0A	09/18/08	8263099
	89 N	(90 - 110)	7.6 (0-20)	MCAWW 300.0A	09/18/08	8263099
			Dilution Factor: 50			
			Analysis Time...: 19:25			

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

## General Chemistry

Client Lot #....: I8I170297

Matrix.....: WATER

Date Sampled...: 09/17/08 11:02 Date Received...: 09/17/08

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		ANALYSIS DATE	BATCH #
<b>Chloride</b> WO#: KW4E01AR-MS/KW4E01AT-MSD MS Lot-Sample #: I8I170320-010									
	94.7	200	247	N mg/L	76		MCAWW 300.0A	09/18/08	8263104
	94.7	200	265	N mg/L	85	7.3	MCAWW 300.0A	09/18/08	8263104
	Dilution Factor: 50								
	Analysis Time...: 19:25								
<b>Sulfate</b> WO#: KW4E01AP-MS/KW4E01AQ-MSD MS Lot-Sample #: I8I170320-010									
	109	200	266	N mg/L	78		MCAWW 300.0A	09/18/08	8263099
	109	200	286	N mg/L	89	7.6	MCAWW 300.0A	09/18/08	8263099
	Dilution Factor: 50								
	Analysis Time...: 19:25								

NOTE(S) :

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

N Spiked analytic recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #....: I8I170297      Work Order #....: KW3FG-SMP      Matrix.....: WG  
                                          KW3FG-DUP

Date Sampled...: 09/16/08 10:20 Date Received...: 09/17/08

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>		<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Arsenic	0.014	0.012		mg/L	18	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Barium	0.40	0.41		mg/L	2.9	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Cadmium	ND	ND		mg/L	0	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Chromium	0.0024 B	0.0030 B		mg/L	24	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Lead	ND	ND		mg/L	0	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Selenium	0.0072	0.0073		mg/L	1.1	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Silver	ND	ND		mg/L	0	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 6010B	09/19-09/22/08	8263218
		Dilution Factor: 1					Analysis Time...: 16:18		
Mercury	ND	ND		mg/L	0	(0-20)	SD Lot-Sample #: I8I170297-001 SW846 7470A	09/25-09/26/08	8269494
		Dilution Factor: 1					Analysis Time...: 13:03		

**NOTE (S) :**

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

B Estimated result. Result is less than RL.

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: I8I170297      Work Order #....: KW3FG-SMP      Matrix.....: WG  
                                          KW3FG-DUP

Date Sampled...: 09/16/08 10:20    Date Received...: 09/17/08

PARAM	RESULT	DUPPLICATE	RPD	LIMIT	METHOD	PREPARATION-	PREP	BATCH #
		RESULT				UNITS	SD Lot-Sample #:	
Total Alkalinity	146	146	mg/L	0.42 (0-20)	SM19 2320 B	I8I170297-001	09/19/08	8263153
				Dilution Factor: 1			Analysis Time...: 08:00	

## SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: I8I170297      Work Order #....: KW3N2-SMP      Matrix.....: WATER  
                                          KW3N2-DUP

Date Sampled...: 09/17/08 08:33 Date Received..: 09/17/08

		DUPLICATE		RPD		PREPARATION-		PREP
PARAM	RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Total Alkalinity						SD Lot-Sample #:	I8I170320-001	
	726	731	mg/L	0.80	(0-20)	SM19 2320 B	09/19/08	8263153
				Dilution Factor: 1	Analysis Time...: 08:00			

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: I8I170297      Work Order #....: KW2D2-SMP      Matrix.....: WATER  
                                          KW2D2-DUP

Date Sampled...: 09/15/08 08:45 Date Received..: 09/17/08

PARAM	DUPLICATE		RPD	LIMIT	METHOD	PREPARATION-	PREP	BATCH #
	RESULT	RESULT						
Total Dissolved Solids	953	965	mg/L	1.3	(0-20) SM19 2540 C	09/22/08	8266477	
			Dilution Factor: 1		Analysis Time..: 16:06			

### Report Attachment

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of the NELAC standards. All data have been found to be compliant with laboratory protocol except as otherwise noted.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.

EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.

EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.

Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.

EPA TO-12: Samples not analyzed in duplicate.

EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

### TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).

The MDL is equivalent to the TRRP acronym SDL (sample detection limit).

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

I8I170 297

78/80

Page 1 of 2

## CHAIN-OF-CUSTODY ADDENDUM

Lot No: I8I170 297

COC NUMBER:

QUOTE/PROFILE: 80814

*filter for Diss. mets*

SAMPLES LOGGED IN:

LOG-IN REVIEWED:

*cc*

*ans*

CHECKED/RECEIVED BY: *[Signature]*

DATE/TIME RECEIVED: 9/17/08 08:15

UNPACKED DATE/TIME: 9/17/08 09:00

CLIENT/PROJECT: CRA

Number of Shipping Containers Received  
with Chain of Custody

VOC AIR / FILTER SAMPLES  YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: *cc*

Container Sealed:  YES  NO Custody Seal Signed/Dated:  YES  NO

Custody Seal Present:  YES  NO

If seal not intact list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed:  YES  NO Samples Received Match Chain:  YES  NO

Canister Valves Capped:  YES  NO Other Equipment Received:  YES  NO

Valve Cap Tightened Properly:  YES  NO See Additional Comments (Section 5.0 and / or 7.0)  YES  NO

Packing Material Used: (circle) Chain-of-Custody form properly maintained:  YES  NO

None / Absorbent / Paper / Bubble Wrap Can Size:  6L  15L Other \_\_\_\_\_

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: *cc* IR THERMOMETER #:  P4  P5

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor [acceptable tolerance 4°C ± 2°]

| TB <input type="checkbox"/> SC <input type="checkbox"/> |
|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Initial <i>2.0</i>                                      | Initial <i>2.1</i>                                      | Initial                                                 | Initial                                                 | Initial                                                 | Initial                                                 | Initial                                                 | Initial                                                 |
| CF <i>0</i>                                             | CF <i>0</i>                                             | CF                                                      | CF                                                      | CF                                                      | CF                                                      | CF                                                      | CF                                                      |
| Final <i>2.0</i>                                        | Final <i>2.1</i>                                        | Final                                                   | Final                                                   | Final                                                   | Final                                                   | Final                                                   | Final                                                   |

If temperature is outside acceptable tolerance, Project Manager was notified ( \_\_\_\_\_ PM). Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples received do not require cooling \_\_\_\_\_ OK to analyze samples:  YES  NO

PRESERVATION OF SAMPLES REQUIRED:  NA  YES  VOA Samples VERIFIED BY: *cc*

NOTE: pH CHECK OF SAMPLES FOR 1664A ANALYSIS CHECK AT TIME OF ANALYSIS BY BENCH ANALYST  
pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Base samples are >pH 12:  YES  NO Acid preserved are <pH 2:  YES  NO

Cyanide samples checked for sulfides:  YES Sulfide samples appear to be preserved with zinc acetate:  YES  NO

Samples checked for chlorine per specification (N.C.)  YES Free chlorine present:  YES  NO

If sample preservation is outside acceptable tolerance, Project Manager was notified ( \_\_\_\_\_ PM)

Date: \_\_\_\_\_ Time: \_\_\_\_\_  see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace	Sample ID	mm Headspace

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN-OF-CUSTODY ADDENDUM

Lot No: \_\_\_\_\_

## 4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: *CC*

Samples received match COC:

 YES  NO

Bottles received intact:

 YES  NO

See additional discrepancies/comments section:

 YES  NO

Samples received from USDA restricted area:

 YES  NO

Chain-of-Custody form properly maintained:

 YES  NO

VOA trip blanks included:

 YES  NO*CC-9712-08.a*

## 5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

## 6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC:  YES  NO Air bill #: \_\_\_\_\_

Hand-delivered Carrier: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

## 7.0 OTHER COMMENTS:

*Received 5x40ml, 2x1L, 1x1L, 500ml HNO3 per sample  
 Received 2x40ml per cooler (2 set)*

## CORRECTIVE ACTION:

Client's Name: \_\_\_\_\_ Informed verbally on: \_\_\_\_\_ By: \_\_\_\_\_

Client's Name: \_\_\_\_\_ Informed verbally on: \_\_\_\_\_ By: \_\_\_\_\_

Sample(s) processed "as is" comments: \_\_\_\_\_

Samples(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_

REVIEW: Project Management: *CMB* Date: *9/17/08*

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

# Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No 

THE LEADER IN ENVIRONMENTAL TESTING

Client <i>CHF</i>	Project Manager <i>Tony Lescow</i>	Date <i>9-16-08</i>	Chain of Custody Number <i>091974</i>
Address <i>2135 S. Loop 250</i>	Telephone Number (Area Code)/Fax Number <i>432-686-0086</i>	Lab Number <i>60000360</i>	Page <i>1 of 1</i>
City <i>Midland TX</i>	State Zip Code <i>TX 79707</i>	Site Contact <i>Hollie Cox</i>	Analysis (Attach list if more space is needed)
Carrier/Waybill Number <i>Carrier 801818</i>			
Project Name and Location (State) <i>Dakota Edge, MI</i>			
Contract/Purchase Order/Quote No. <i>Tony Lescow</i>			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix
<i>MW - 1091609</i>	<i>9-16-08</i>	<i>10:20</i>	<i>Water</i>
<i>MW - 2091608</i>	<i>9-16-08</i>	<i>11:15</i>	<i>Water</i>
<i>MW - 3091608</i>	<i>9-16-08</i>	<i>11:45</i>	<i>Water</i>
<i>MW - 4091608</i>	<i>9-16-08</i>	<i>12:45</i>	<i>Water</i>
<i>Dip</i>	<i>9-16-08</i>	<i>-</i>	<i>Water</i>
<i>Trip Blank</i>	<i>9-16-08</i>	<i>-</i>	<i>Water</i>
<i>Tony</i>	<i>9-16-08</i>	<i>-</i>	<i>Water</i>
Containers & Preservatives			
Acetone	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Alcohol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NaOH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HCl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HNO3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
H2SO4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Uptacs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sed.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Special Instructions/ Conditions of Receipt <i>Please filter oil/s for metals 211°C 9-12-08</i>			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other <i>Normal TAT</i>		
Sample Disposal <input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)			
QC Requirements (Specify)			
1. Received By <i>John C.</i>			
2. Received By <i>John C.</i>			
3. Received By			
Comments			