1R – 258

AGWMR

06/26/2008

Chevron

Matthew P. Hudson
Remediation Project Manager

Upstream Business Unit
Chevron Environmental Management Company
1400 Smith St
Room 40038
Houston, TX 77002
Tel 713 372 1046
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June 26, 2008

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

Subject: 2007 Annual Groundwater Monitoring Reports

Dear Glenn:

Please find enclosed one copy each of the 2007 Annual Groundwater Monitoring Reports for the following sites:

- **1R-254: G.L. Erwin "A and B" Federal NCT-2 Tank Battery, Lea County, NM**
- **1R-255: J.R. Philips Tank Battery No. 2, Lea County, NM**
- **1R-258: Former New Mexico State "F" Tank Battery, Lea County, NM**
- **1R-289: Cooper-Jal Unit South Injection Station, Lea County, NM**

Should you have any questions regarding these reports, please contact me at (713) 372-1046.

Sincerely,

Matthew P. Hudson

Enclosures

cc: Patricia Caperton, NMOCD-Hobbs (electronic copies of reports)
Luke Markham, Conestoga-Rovers & Associates
James Ornelas, Conestoga-Rovers & Associates
Todd Wells, Conestoga-Rovers & Associates

IR 258

2007 ANNUAL GROUNDWATER MONITORING REPORT

FORMER NEW MEXICO STATE "F" TANK BATTERY
CASE NO. IR258
OGRID NO. 4323
NE/4, SE/4, SECTION 24, T-19-S, R-36-E
LATITUDE: N 32° 38′ 34.9″ LONGITUDE: W 103° 18′ 0.49″
LEA COUNTY, NEW MEXICO

Prepared For:
Mr. Matt Hudson
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
Upstream Business Unit
1400 Smith Street, Room 40038
Houston, Texas 77002

Prepared by:
Conestoga-Rovers & Associates

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JUNE 13, 2008
REF. NO. 039122 (4)

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2007 reporting period by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the former New Mexico State "F" Tank Battery (hereafter referred to as the "Site"). Groundwater gauging and sampling events were performed on March, June, September and December 2007.

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

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

In addition to the soil assessment activities, nine monitor wells (MW-1 through MW-9) were installed at the site between 1998 and 1999. Light non-aqueous phase liquid (LNAPL) was observed in wells MW-1 and MW-2. In November 1999, wells MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with recovery wells RW-1, RW-2 and RW-3. On February 17, 2003, New Mexico Office of the State Engineer (NMOSE) approved applications (File No. L-11029, L-11030 and L-11031) submitted by Texaco to divert underground water for remediation of LNAPL. The remediation system was installed from October 2004 through February 2005 and was started on February 14, 2005. Excluding brief periods for routine maintenance, the groundwater recovery/gradient control system operated from February 14, 2005 to November 20, 2006. In November 2006, LNAPL recovery methods were re-evaluated

and the total fluids groundwater recovery/gradient control system was shut down. An LNAPL skimmer pump system was installed in RW-1 and absorbent socks were installed in RW-2 and RW-3 on November 28, 2006. This system is currently in operation at the Site. Semi-annual groundwater monitoring and weekly operation and maintenance (O&M) activities have been performed by CRA since 2005 along with annual reporting to the NMOCD for this Site. In addition, quarterly gauging activities were performed in 2007 at the Site.

2.0 REGULATORY FRAMEWORK

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

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

3.0 GROUNDWATER SAMPLING AND ANALYSIS

The Site is monitored with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8), two offsite water wells (WW-1 and WW-2) and three recovery wells (RW-1, RW-2 and RW-3). Four quarterly monitoring and sampling events were performed during the 2007 calendar year. The first (March) & third (September) quarter 2007 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of a groundwater sample from a single monitor well (MW-6). The second (June) & fourth (December) quarter 2007 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of groundwater samples from all six monitor wells and the two offsite water wells. The LNAPL skimmer system was turned off at least 48 hours before monitoring/sampling events were conducted to allow groundwater levels to equilibrate. Static fluid levels were not collected from the two offsite water wells (WW-1 and WW-2) during the 2007 calendar year.

The first and third quarter monitoring and sampling activities were performed on March 16, 2007 and September 27, 2007. The second and fourth quarter monitoring and sampling activities were performed on June 26-27, 2007 and December 13-14, 2007. Prior to purging, static fluid levels and LNAPL thicknesses were measured from top of casing (TOC) with an electric interface probe to the nearest hundredth of a foot and recorded. Purging was considered complete when three well volumes had been removed or the wells were purged dry. Geochemical field parameters including pH, temperature and conductivity were collected during the purging/sampling process. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final deionized water rinse to minimize potential cross-contamination between each monitor well. Subsequent to the purging process, groundwater samples were collected using clean, disposable PVC bailers. Laboratory-supplied sample containers were then filled directly from the disposable PVC bailers.

Wells that contained measurable (>0.01 foot) LNAPL were not purged or sampled. The groundwater samples were placed on ice in an insulated cooler and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory (Pace Analytical Services, Inc. located in St. Rose, Louisiana) for analyses of BTEX by EPA Method 8021B and chlorides by EPA-approved methods. The fluids recovered and generated during the sampling events were containerized onsite in labeled drums and subsequently managed at an NMOCD-permitted salt water disposal (SWD) facility by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE ELEVATION AND GRADIENT

Groundwater elevation data are presented in TABLE I. Groundwater gradient maps for each quarterly event (March, June, September and December) 2007 are presented on FIGURES 3, 4, 5 & 6 respectively. Depth to groundwater ranged from 50.22 feet to 65.69 feet below TOC on March 16, 2007; from 50.15 feet to 65.41 feet below TOC on June 26,

2007; from 50.49 feet to 66.46 feet below TOC on September 27, 2007; and from 50.92 feet to 65.85 feet below TOC on December 13, 2007. Groundwater elevations at the Site appear to be consistent with historical levels with groundwater flow to the southeast. The maximum gradient observed during the 2007 calendar year was 0.004 feet/foot.

LNAPL was not detected in the monitor wells during the 2007 monitoring period. Historically, three onsite recovery wells have contained measurable amounts of LNAPL. LNAPL was present in recovery well RW-1 at a thickness of 0.44 feet in March 2007, 0.15 feet in June 2007, 0.68 feet in September 2007 and 2.46 feet in December 2007. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the June & December sampling events, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled. LNAPL thickness maps for March, June, September and December 2007 are presented as FIGURES 7, 8, 9 and 10, respectively.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Groundwater BTEX and chloride concentration maps for March, June, September and December 2007 are presented as FIGURES 11, 12, 13 and 14, respectively. BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2007 monitoring period. Copies of the certified laboratory reports are provided in APPENDIX A.

4.0 CORRECTIVE ACTION

Excluding brief periods for routine maintenance, the Xitech® LNAPL skimmer pump system in RW-1 operated continuously from January to December 2007. The best course of action for two other recovery wells (RW-2 & RW-3) was determined to be absorbent socks based on trace amounts of LNAPL presence in both wells.

Operation and maintenance (O&M) activities were performed on a weekly basis. As of January 2, 2008, approximately 347 gallons of LNAPL have been recovered since November 28, 2006 from RW-1.

5.0 PLANNED ACTIVITIES

The Xitech® skimmer pump system will continue to skim LNAPL from the groundwater. The recovered product will be pumped into the 225-gallon tank which is inside a secondary containment structure.

Semi-annual groundwater sampling events are scheduled to be performed during June and December 2008. Groundwater samples will be collected from all six monitor wells, the two offsite water wells (WW-1 & WW-2) and the two recovery wells (RW-2 & RW-3). Quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. In addition, weekly O&M activities will be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3).

6.0 SUMMARY OF FINDINGS

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

- The Site is monitored semi-annually with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8) and two offsite water wells (WW-1 and WW-2). Depth to groundwater ranged from 50.22 feet to 65.69 feet below TOC on March 16, 2007; from 50.15 feet to 65.41 feet below TOC on June 26, 2007; from 50.49 feet to 66.46 feet below TOC on September 27, 2007; and from 50.92 feet to 65.85 feet below TOC on December 13, 2007. Groundwater flow at the Site is to the southeast and the maximum gradient observed in 2007 was 0.004 feet/foot.
- LNAPL was not detected in the monitor wells during the 2007 monitoring period. LNAPL was present in recovery well RW-1 at a thickness of 0.44 feet in March 2007, 0.15 feet in June 2007, 0.68 feet in September 2007 and 2.46 feet in December 2007. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the June & December sampling events, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled.
- BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2007 monitoring period.
- The Xitech® LNAPL skimmer pump system in RW-1 operated continuously from January to December 2007. As of January 2, 2008, approximately 347 gallons of LNAPL have been recovered since November 28, 2006 from RW-1.
- The 2008 semi-annual groundwater sampling events are scheduled to be performed during June and December 2008. Groundwater samples will be collected from all six monitor wells, the two offsite water wells (WW-1 & WW-2) and the two recovery wells (RW-2 & RW-3). Quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. In addition, weekly O&M activities will be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3).

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

Todd Wells
Project Manager

Thomas C. Larson
Operations Manager

MONUMENT NORTH QUADRANGLE
NEW MEXICO

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

PHOTOREVISED 1985

USGS MAP SERIES 1:24,000

0 1/2 1 2
(Miles)

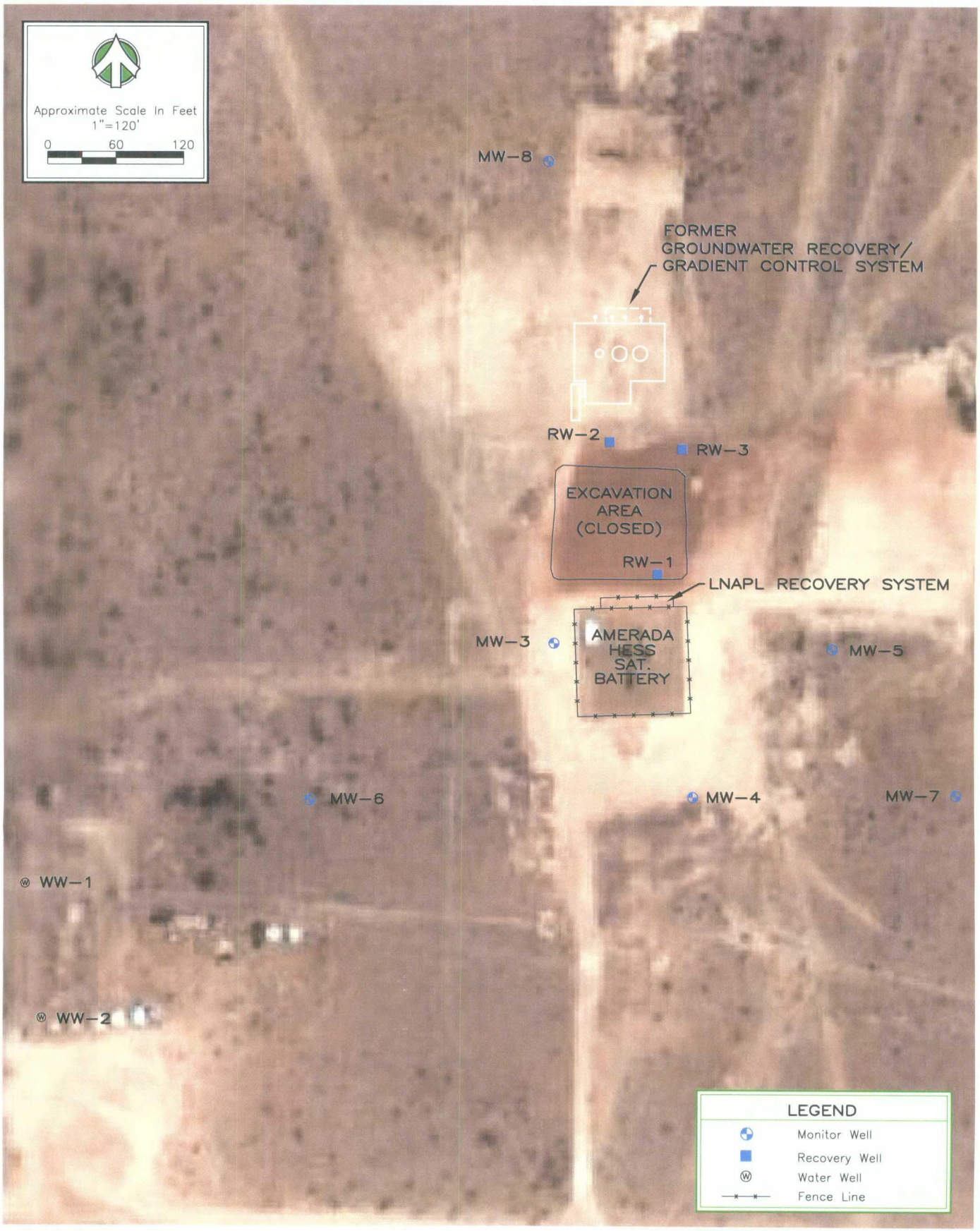
0 2000 4000 6000 8000
(Feet)

CONTOUR INTERVAL 10 FEET

NORTH

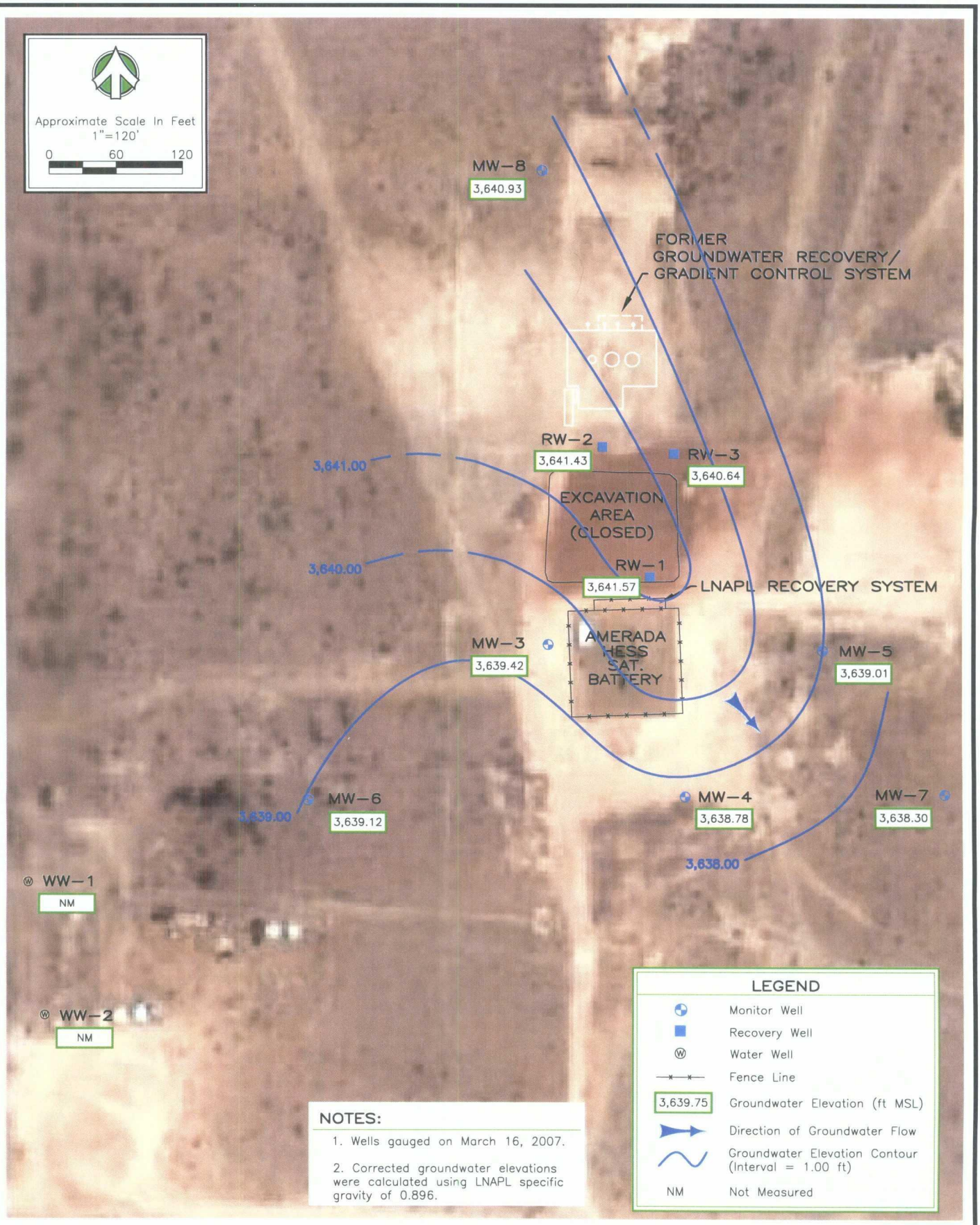
039122 2007 SLR 032608

SITE LOCATION MAP	JOB No. 039122
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT LEA COUNTY, NEW MEXICO	FIGURE 1



039122 2007 SLR 03032008

SITE DETAILS	JOB No. 039122
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT LEA COUNTY, NEW MEXICO	FIGURE 2



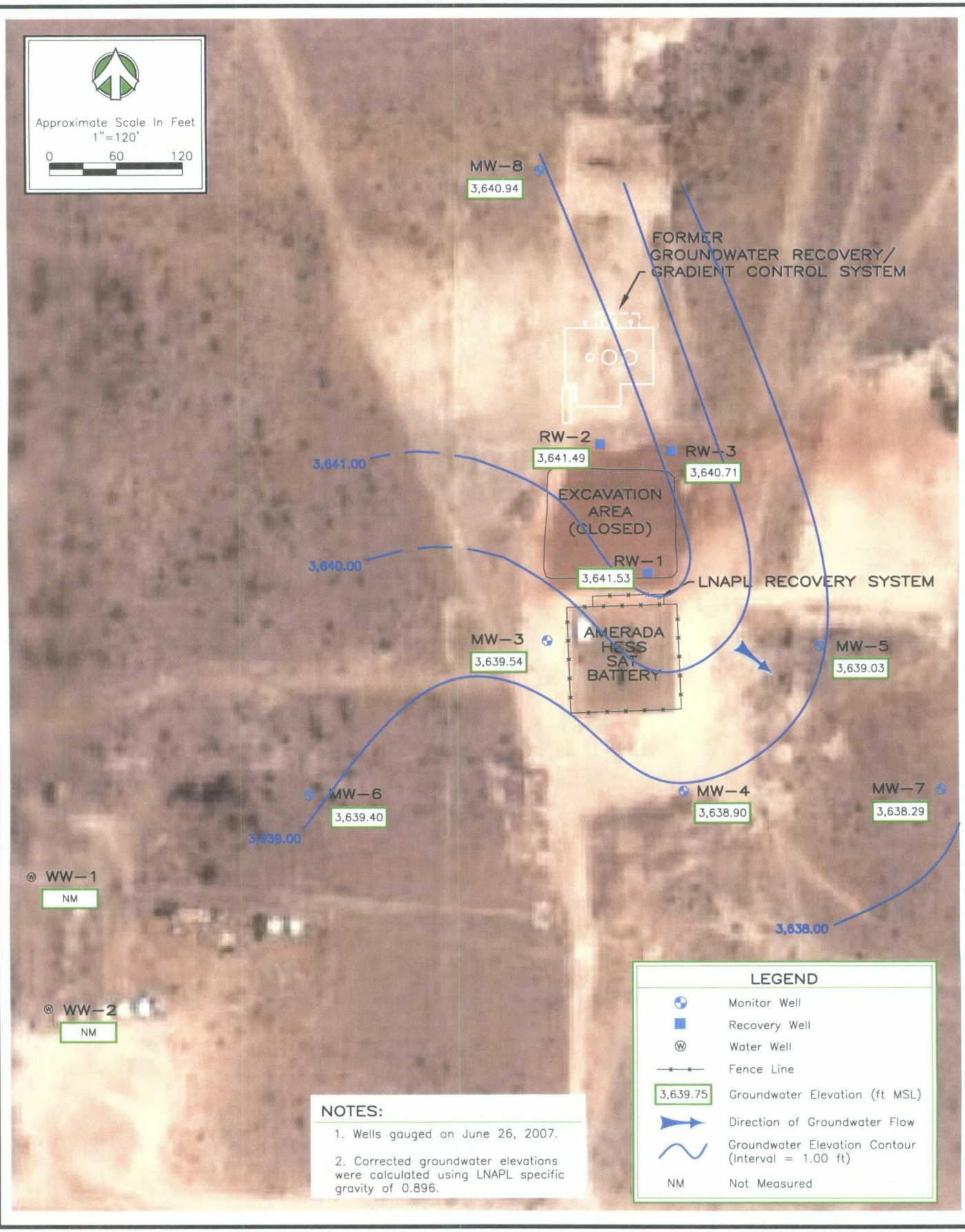
039122 2007 SLR 030408

GROUNDWATER GRADIENT MAP – MARCH 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No.
039122

FIGURE
3



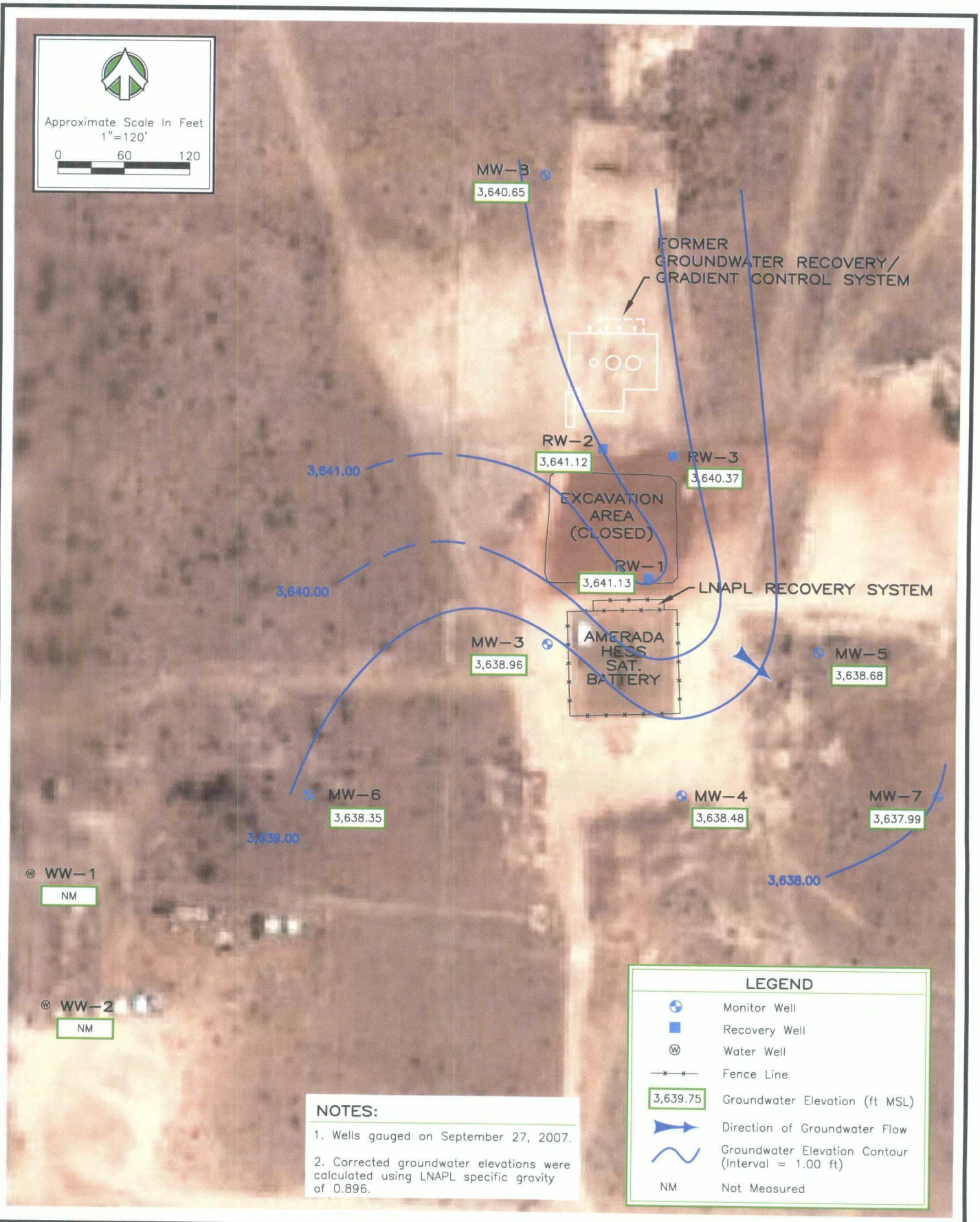
039122 2007 SLR 030408

GROUNDWATER GRADIENT MAP – JUNE 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No.
039122

FIGURE
4



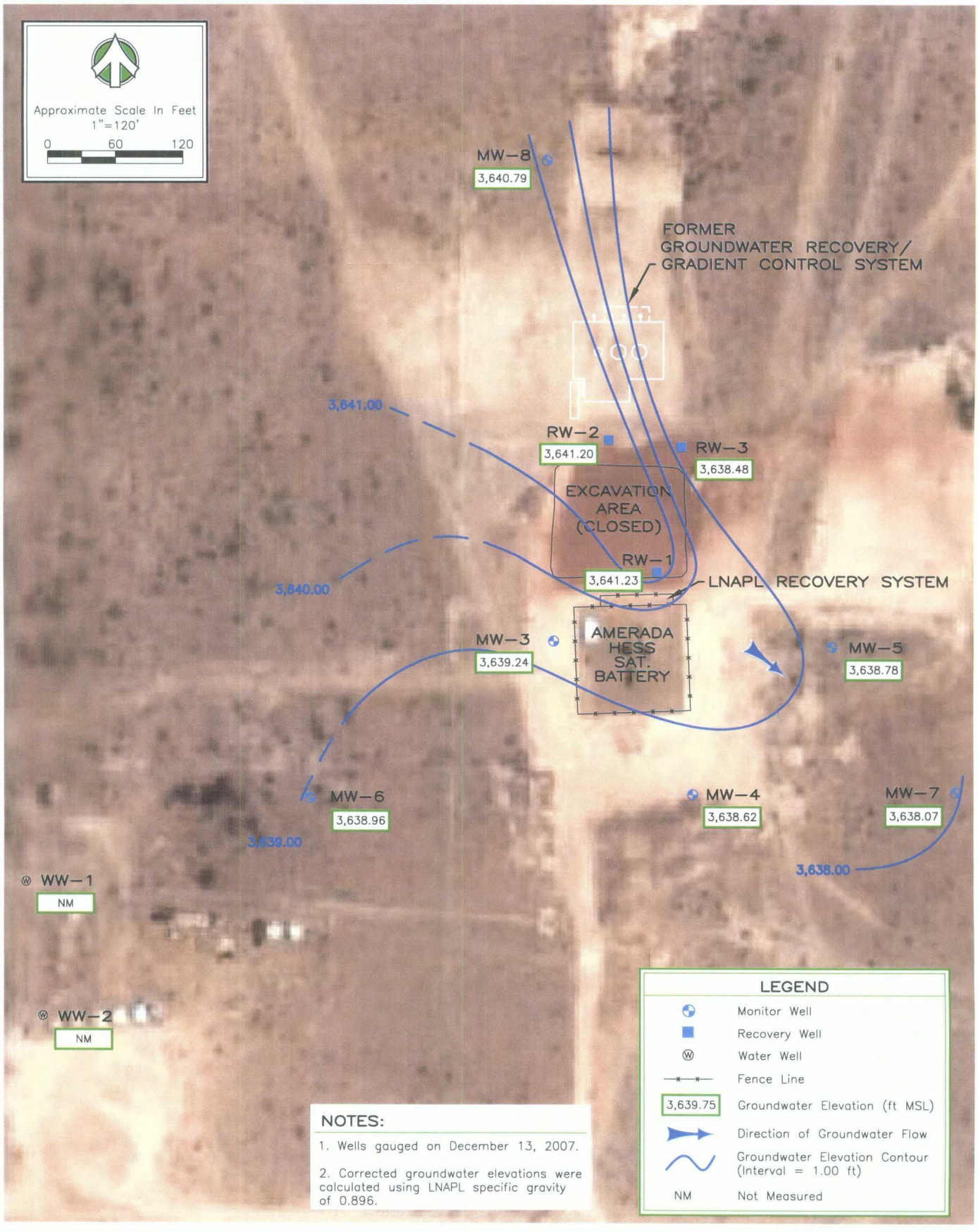
039122 2007 SLR 030408

GROUNDWATER GRADIENT MAP – SEPTEMBER 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No. 039122

FIGURE 5



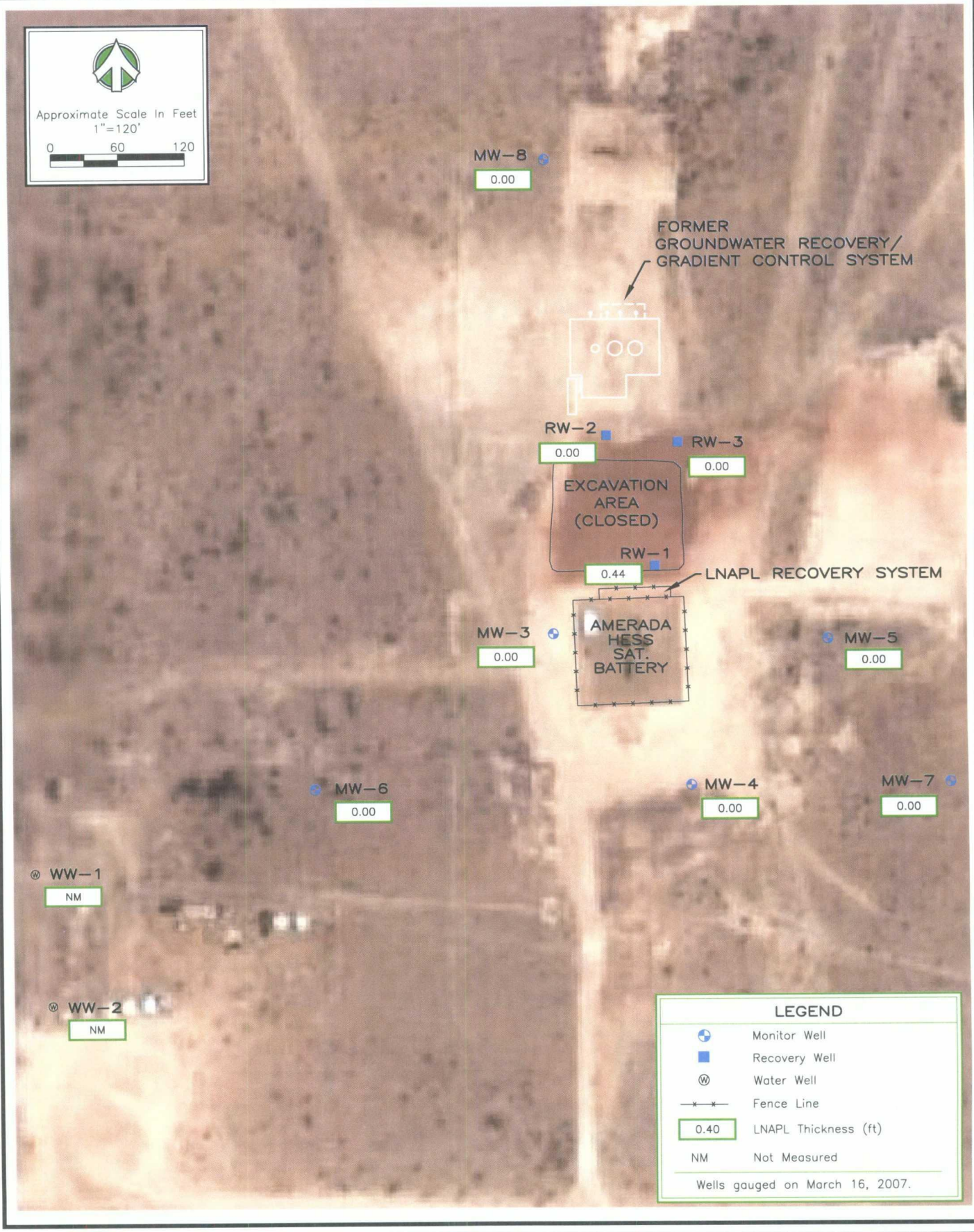
039122 2007 SLR 030408

GROUNDWATER GRADIENT MAP – DECEMBER 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

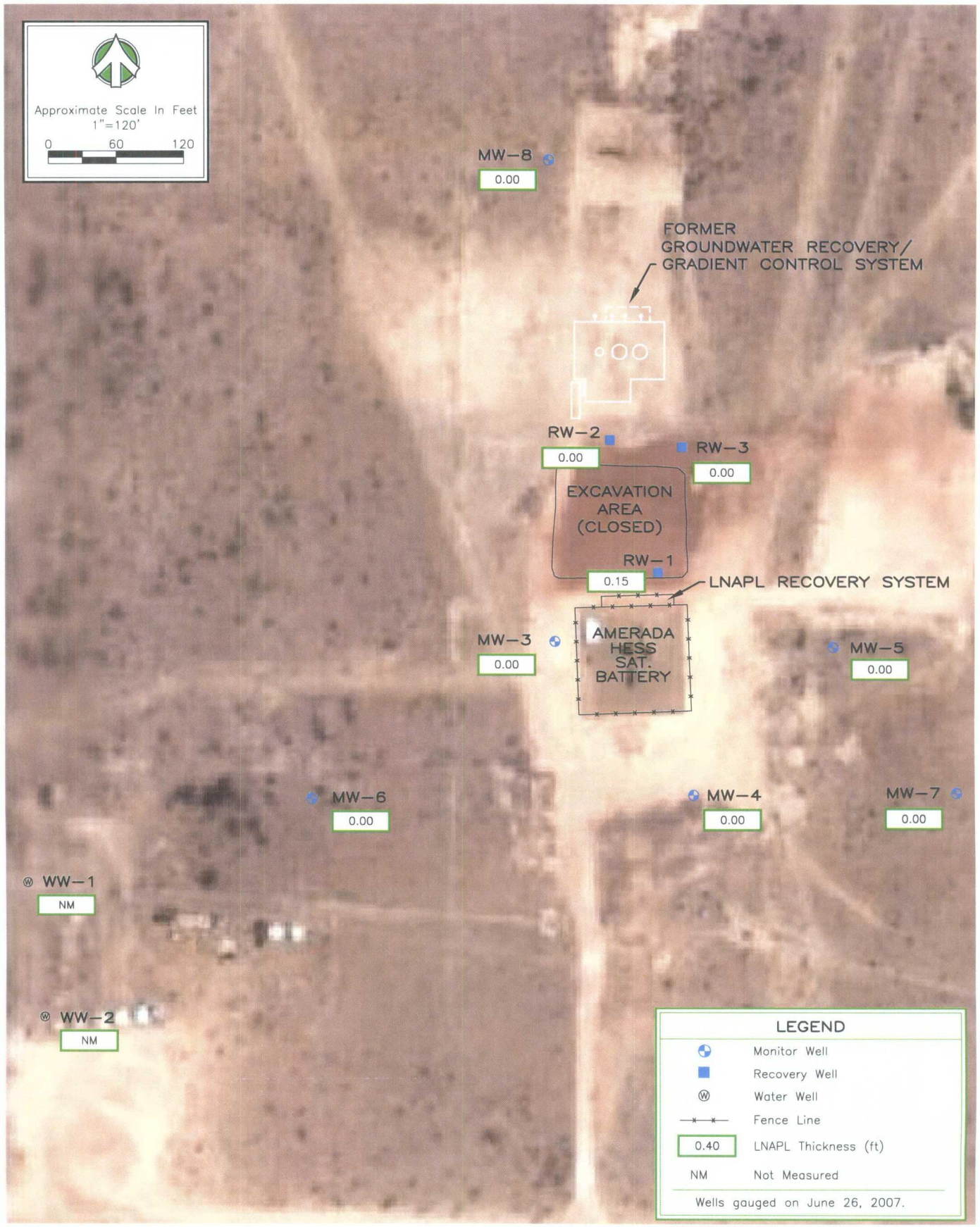
JOB No.
039122

FIGURE
6



039122 2007 SLR 030308

LNAPL THICKNESS MAP – MARCH 2007 CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT LEA COUNTY, NEW MEXICO	JOB No. 039122 FIGURE 7



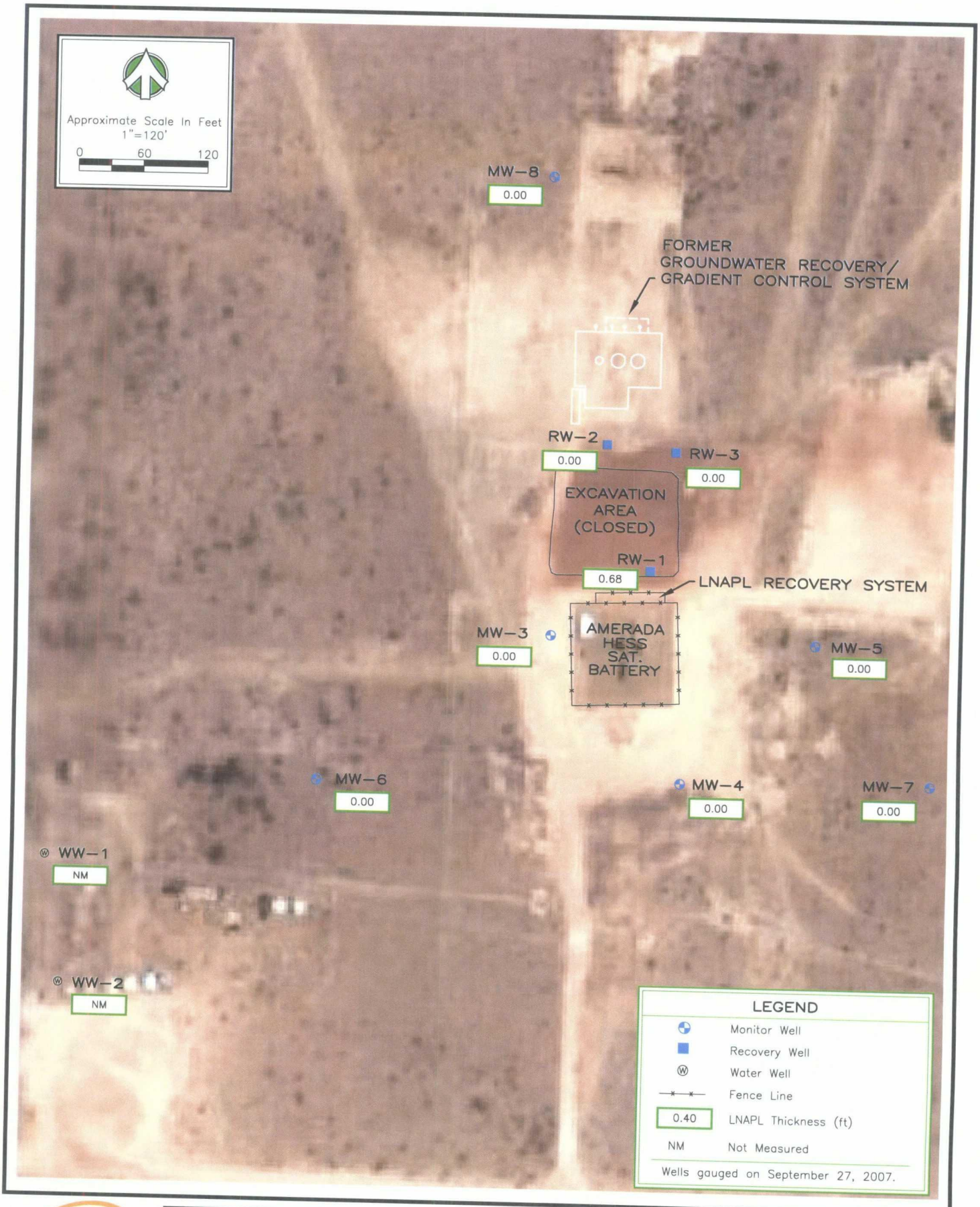
039122 2007 SLR 030308

LNAPL THICKNESS MAP – JUNE 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

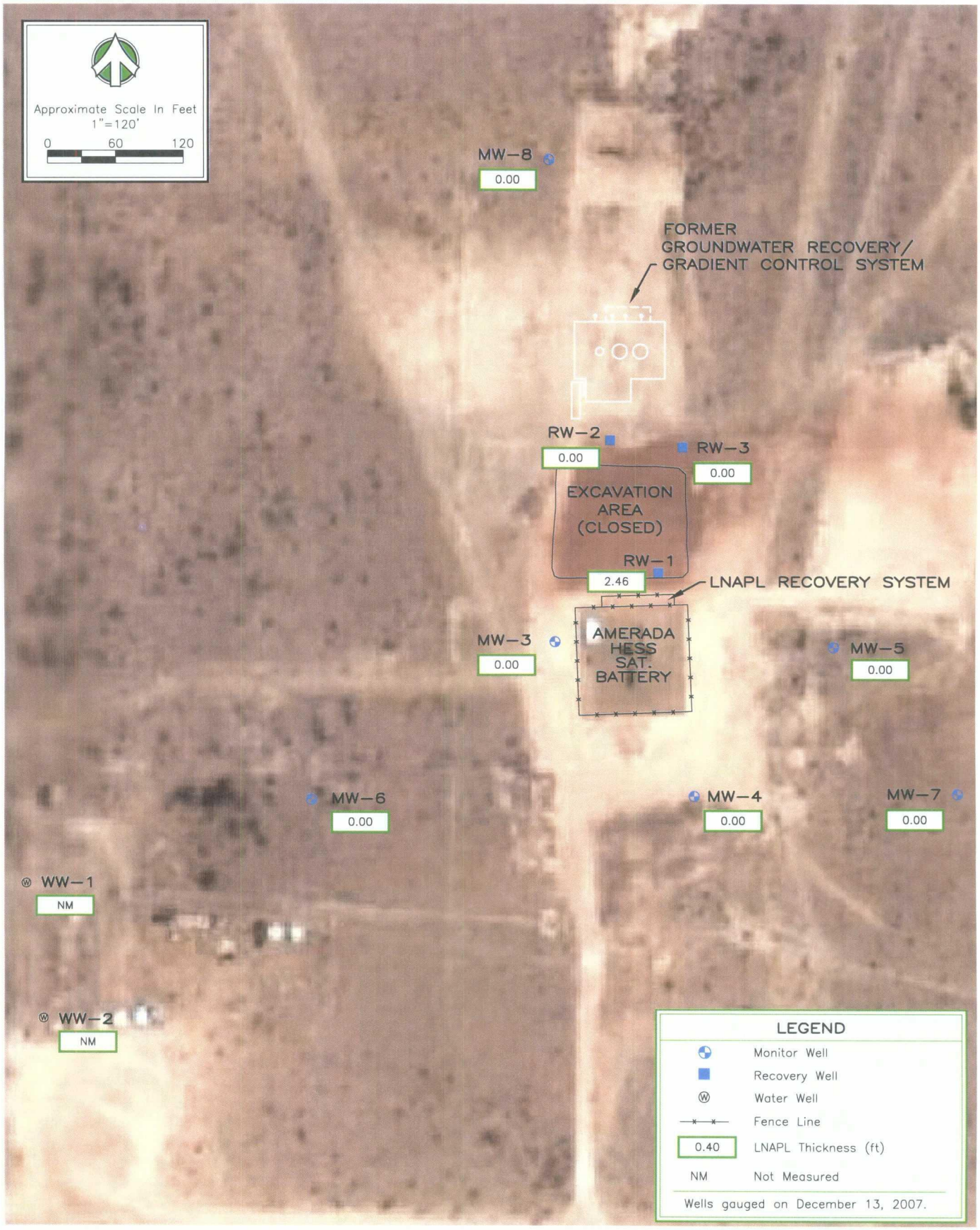
JOB No.
039122

FIGURE
8



039122 2007 SLR 030308

LNAPL THICKNESS MAP – SEPTEMBER 2007	JOB No. 039122
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT LEA COUNTY, NEW MEXICO	FIGURE 9



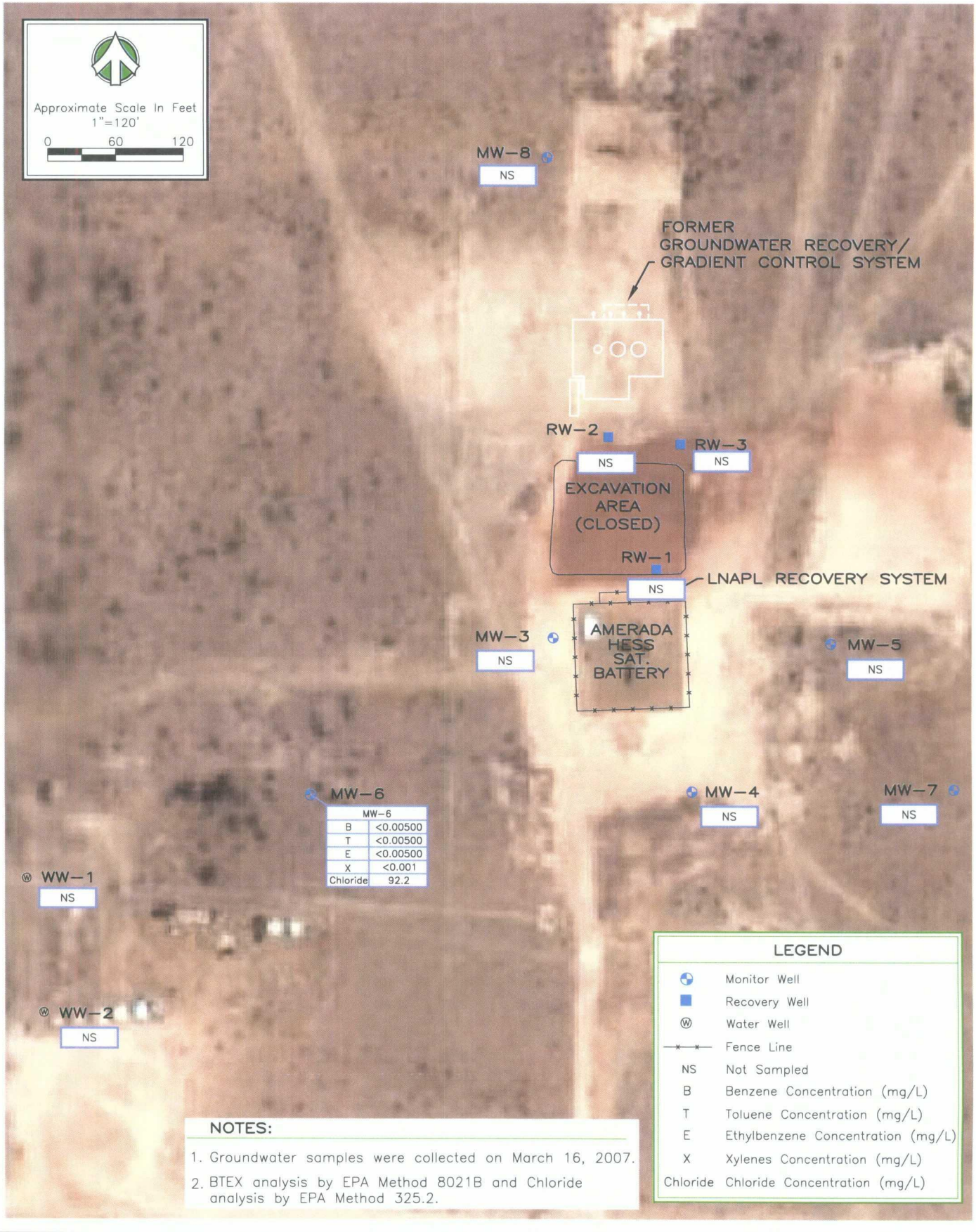
039122 2007 SLR 030308

LNAPL THICKNESS MAP – DECEMBER 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No.
039122

FIGURE
10



039122 2007 SLR 030308

GROUNDWATER BTEX & CHLORIDE CONCENTRATIONS MAP–MARCH 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No. 039122

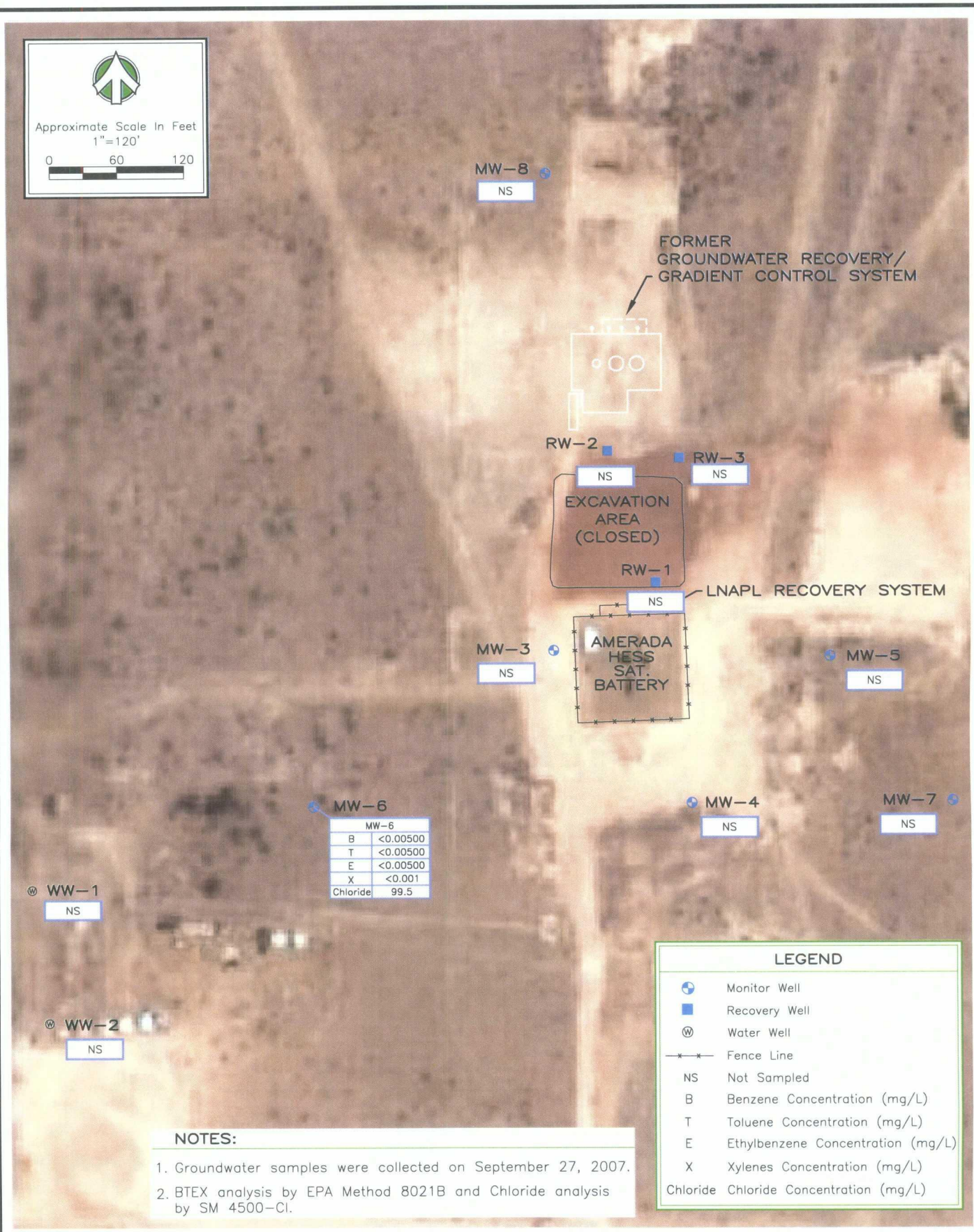
FIGURE 11

039122 2007 SLR 030308

GROUNDWATER BTEX & CHLORIDE CONCENTRATIONS MAP–JUNE 2007
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No. 039122

FIGURE 12



NOTES:

1. Groundwater samples were collected on September 27, 2007.
2. BTEX analysis by EPA Method 8021B and Chloride analysis by SM 4500-Cl.

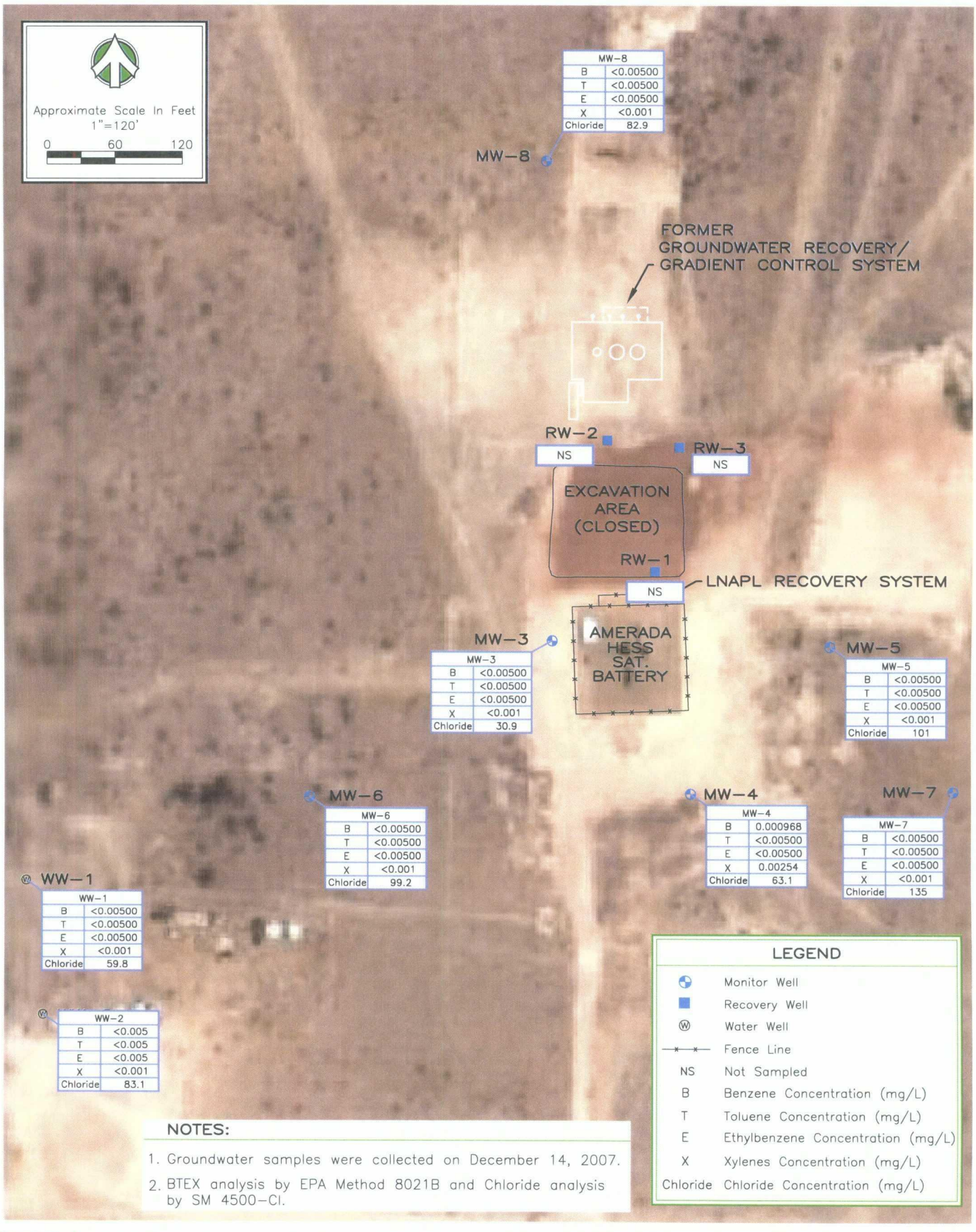
039122 2007 SLR 030308

GROUNDWATER BTEX & CHLORIDE CONCENTRATIONS MAP-SEPT 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No. 039122

FIGURE 13



039122 2007 SLR 030308

GROUNDWATER BTEX & CHLORIDE CONCENTRATIONS MAP-DEC 2007

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

JOB No. 039122

FIGURE 14

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

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

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

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

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

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

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

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-1	11/3/99	62.17	---	---	3637.75	71.60	55 - 75
3699.92	2/16/01	62.37	62.33	0.04	3637.59	---	---
	6/11/02	62.26	61.86	0.40	3638.01	---	---
	11/26/02	62.60	62.07	0.53	3637.79	---	---
	6/5/03	63.00	62.84	0.16	3637.06	---	---
	12/3/03	63.26	62.61	0.65	3637.23	---	---
	7/1/04	63.10	62.33	0.77	3637.50	---	---
	12/20/04	61.80	60.96	0.84	3638.86	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	61.44	58.67	2.77	3640.92	---	---
	5/1/06	61.56	58.38	3.18	3641.16	---	---
	6/26/06	61.59	58.43	3.16	3641.11	---	---
	11/21/06	59.87	58.72	1.15	3641.06	---	---
	11/28/06	60.96	58.32	2.64	3641.28	---	---
	12/4/06	60.35	58.30	2.05	3641.37	---	---
	12/15/06	58.75	58.48	0.27	3641.41	---	---
	12/18/06	58.78	58.55	0.23	3641.34	---	---
	1/5/07	60.54	58.19	2.35	3641.49	---	---
	2/2/07	59.00	58.51	0.49	3641.36	---	---
	2/9/07	58.52	58.36	0.16	3641.54	---	---
	2/23/07	58.62	58.25	0.37	3641.63	---	---
	3/2/07	59.78	58.18	1.60	3641.58	---	---
	3/8/07	58.55	58.23	0.32	3641.66	---	---
	3/16/07	58.74	58.30	0.44	3641.57	---	---
	3/23/07	58.81	58.31	0.50	3641.56	---	---
	3/28/07	58.48	58.24	0.24	3641.66	---	---
	4/4/07	58.69	58.48	0.21	3641.42	---	---
	5/23/07	58.95	58.48	0.47	3641.39	---	---
	6/20/07	59.09	58.50	0.59	3641.36	---	---
	6/26/07	58.52	58.37	0.15	3641.53	---	---
	7/2/07	58.69	58.29	0.40	3641.59	---	---
	9/13/07	60.18	58.66	1.52	3641.10	---	---
	9/17/07	59.18	58.65	0.53	3641.22	---	---
	9/27/07	59.40	58.72	0.68	3641.13	---	---
	11/16/07	58.52	58.35	0.17	3641.55	---	---
	12/13/07	60.90	58.44	2.46	3641.23	---	---

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

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-2	10/14/99	53.28	---	---	3638.84	67.55	47 - 67
3692.12	11/3/99	53.95	---	---	3638.17	---	---
	2/16/01	54.01	---	---	3638.11	---	---
	6/11/02	54.01	53.98	0.03	3638.14	---	---
	11/26/02	54.28	54.07	0.21	3638.02	---	---
	6/5/03	53.24	53.23	0.01	3638.89	---	---
	12/3/03	54.51	54.38	0.13	3637.72	---	---
	7/1/04	54.51	54.12	0.39	3637.95	---	---
	12/20/04	53.69	53.52	0.17	3638.58	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	51.55	51.14	0.41	3640.93	---	---
	5/1/06	51.34	50.91	0.43	3641.16	---	---
	6/26/06	51.02	50.94	0.08	3641.17	---	---
	12/18/06	51.15	50.75	0.40	3641.32	---	---
	1/12/07	50.89	50.63	0.26	3641.46	---	---
	1/15/07	50.20	---	---	3641.92	---	---
	2/2/07	50.72	---	---	3641.40	---	---
	2/9/07	50.60	---	---	3641.52	---	---
	2/23/07	50.54	---	---	3641.58	---	---
	3/2/07	50.60	---	---	3641.52	---	---
	3/8/07	50.61	---	---	3641.51	---	---
	3/16/07	50.69	---	---	3641.43	---	---
	3/23/07	50.67	---	---	3641.45	---	---
	3/28/07	50.54	---	---	3641.58	---	---
	4/4/07	50.66	---	---	3641.46	---	---
	4/12/07	50.62	---	---	3641.50	---	---
	4/19/07	50.61	---	---	3641.51	---	---
	4/25/07	50.80	---	---	3641.32	---	---
	5/1/07	50.80	---	---	3641.32	---	---
	5/8/07	50.73	---	---	3641.39	---	---
	5/23/07	50.74	---	---	3641.38	---	---
	5/29/07	50.70	---	---	3641.42	---	---
	6/5/07	50.68	---	---	3641.44	---	---
	6/14/07	50.66	---	---	3641.46	---	---
	6/20/07	50.72	---	---	3641.40	---	---
	6/26/07	50.63	---	---	3641.49	---	---
	7/2/07	50.59	---	---	3641.53	---	---
	7/13/07	50.60	---	---	3641.52	---	---
	7/20/07	50.61	---	---	3641.51	---	---
	7/27/07	50.65	---	---	3641.47	---	---
	8/14/07	50.83	---	---	3641.29	---	---

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

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-2	8/22/07	50.96	---	---	3641.16	---	---
3692.12	9/4/07	50.88	---	---	3641.24	---	---
	9/13/07	50.49	---	---	3641.63	---	---
	9/17/07	50.92	---	---	3641.20	---	---
	9/27/07	51.00	---	---	3641.12	---	---
	10/4/07	50.92	---	---	3641.20	---	---
	10/11/07	50.87	---	---	3641.25	---	---
	11/2/07	50.79	---	---	3641.33	---	---
	11/16/07	50.65	---	---	3641.47	---	---
	11/20/07	50.73	---	---	3641.39	---	---
	12/13/07	50.92	---	---	3641.20	---	---
	1/2/08	50.91	---	---	3641.21	---	---
RW-3	10/14/99	45.82	---	---	3645.04	68.65	47 - 67
3690.86	11/3/99	52.82	---	---	3638.04	---	---
	2/16/01	52.88	---	---	3637.98	---	---
	6/11/02	52.91	---	---	3637.95	---	---
	11/26/02	53.22	53.15	0.07	3637.70	---	---
	6/5/03	54.56	54.40	0.16	3636.44	---	---
	12/3/03	53.23	---	---	3637.63	---	---
	7/1/04	53.19	52.98	0.21	3637.85	---	---
	12/20/04	52.50	52.09	0.41	3638.72	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	50.71	---	---	3640.15	---	---
	5/1/06	50.49	---	---	3640.37	---	---
	6/26/06	50.50	---	---	3640.36	---	---
	12/18/06	50.31	---	---	3640.55	---	---
	1/12/07	50.17	---	---	3640.69	---	---
	1/15/07	50.21	50.20	0.01	3640.66	---	---
	2/2/07	50.23	---	---	3640.63	---	---
	2/9/07	50.13	---	---	3640.73	---	---
	2/23/07	50.03	---	---	3640.83	---	---
	3/2/07	50.12	---	---	3640.74	---	---
	3/8/07	50.14	---	---	3640.72	---	---
	3/16/07	50.22	---	---	3640.64	---	---
	3/23/07	50.20	---	---	3640.66	---	---
	3/28/07	50.08	---	---	3640.78	---	---
	4/4/07	50.18	---	---	3640.68	---	---
	4/12/07	50.14	---	---	3640.72	---	---
	4/19/07	50.13	---	---	3640.73	---	---
	4/25/07	50.28	---	---	3640.58	---	---
	5/1/07	50.29	---	---	3640.57	---	---
	5/8/07	50.24	---	---	3640.62	---	---
	5/23/07	50.23	---	---	3640.63	---	---
	5/29/07	50.21	---	---	3640.65	---	---
	6/5/07	50.19	---	---	3640.67	---	---
	6/14/07	50.18	---	---	3640.68	---	---
	6/20/07	50.26	---	---	3640.60	---	---

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

Well ID *TOC Elevation*	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-3	6/26/07	50.15	---	---	3640.71	---	---
3690.86	7/2/07	50.11	---	---	3640.75	---	---
	7/13/07	50.14	---	---	3640.72	---	---
	7/20/07	50.11	---	---	3640.75	---	---
	7/27/07	50.17	---	---	3640.69	---	---
	8/14/07	50.37	---	---	3640.49	---	---
	8/22/07	50.45	---	---	3640.41	---	---
	9/4/07	50.36	---	---	3640.50	---	---
	9/13/07	50.44	---	---	3640.42	---	---
	9/17/07	50.44	---	---	3640.42	---	---
	9/27/07	50.49	---	---	3640.37	---	---
	10/4/07	50.42	---	---	3640.44	---	---
	10/11/07	50.39	---	---	3640.47	---	---
	11/2/07	50.31	---	---	3640.55	---	---
	11/16/07	50.19	---	---	3640.67	---	---
	11/20/07	50.27	---	---	3640.59	---	---
	12/13/07	52.38	---	---	3638.48	---	---
	1/2/08	52.35	---	---	3638.51	---	---
WW-1	6/11/02	66.35	---	---	3637.82	Unknown	Unknown
3704.17	6/5/03	68.25	---	---	3635.92	---	---
						---	---
WW-2	6/11/02	66.18	---	---	3637.66	Unknown	Unknown
3703.84	11/26/02	66.18	---	---	3637.66	---	---
	6/5/03	68.54	---	---	3635.30	---	---

Notes:

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

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

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

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

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

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

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

Notes:

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

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 26, 2007

Luke Markham
CRA
2135 S. Loop 250 West
Midland, TX 79701

RE: Project: 2067718
RE: Project ID: N.N. "F" STATE BATTERY/039122

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2067718

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3/26/2007 15:42:43

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA

Project: N.N. "F" STATE BATTERY/039122

Project No.: 2067718

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW631607	20508364	Water	03/16/2007	10:35	03/20/2007	10:00

3/26/2007 15:42:46

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2067718**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067718

Analytical Method	Batch	Sample used for QC
EPA 325.2	83695	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA

Client ID: MW631607 **Site:** None

Project: N.N. "F" STATE BATTERY/039122 **Project No.:** 2067718 **Sample Qu:**

Lab ID: 20508364 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 83685

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021 WL20

Collected: 03/16/07 **Received:** 03/20/07

Prep Factor: 1 **Prepared:** 03/21/07 **Analyzed:** 03/21/07 20:58 DET (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

3/26/2007 15:43:16

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW631607 **Client:** CRA
Project: N.N. "F" STATE BATTERY/039122 **Site:** None
Lab ID: 20508364 **Project No.:** 2067718
Description: None **Matrix:** Water **%Moisture:** n/a
Collected: 03/16/07 **Received:** 03/20/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	EPA 325.2	83695	1	92.2		mg/L	1.00	23-Mar-07	23-Mar-07	16:13 TAE (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/26/2007 15:43:19

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8021 **Project:** 2067718 **LCS:** 20508677 3/21/2007 5:12:00 PM

Batch: 83685 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20	20.01		100										72 - 133	-		Q5
Ethylbenzene	20	19.17		96										75 - 136	-		Q5
Toluene	20	19.75		99										77 - 132	-		Q5
m&p-Xylene	40	37.95		95										79 - 136	-		Q5
o-Xylene	20	19.02		95										79 - 136	-		Q5

5 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/26/2007 15:43:22

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067718 **Batch: 83685**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20508364	Sample	66							
20508676	BLANK	83							
20508677	LCS	83							
20509595	BLANK	90							
	QC limits:	58-143							

Sur 1: 4-Bromofluorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/26/2007 15:43:25

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20508676

Description: 8021 VOAs Water Blank **Project No.:** 2067718

Method: EPA 8021 **Batch:** 83685 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Mar-07 **Analyzed:** 03/21/07 16:46 DET (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	0.0803J		0.500
100-41-4	Ethylbenzene	1	0.0610J		0.500
1634-04-4	Methyl-tert-butyl ether	1	ND		0.500
108-88-3	Toluene	1	0.0674J		0.500
	m&p-Xylene	1	0.145 J		1.00
95-47-6	o-Xylene	1	0.0704J		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/26/2007 15:43:28

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Wet Chemistry Quality Control Results

Project: 2067718

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Chloride	83695	ND	1.00	mg/L	72.1	97								90 - 110	-		
Chloride	83695			mg/L									23	-	-	20	D1

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/26/2007 15:43:31

New Orleans Laboratory Certifications
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Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067718

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®
www.pacelabs.com

740148

Page: / of

Section A — Required Client Information:

Company: CRA
Address: 8135 S. Loop 250 W. Midland, TX 79703
Phone: 432-686-0086 Fax: 432-686-0186

Section B — Required Client Information:

Report To: Luke Markham
Copy To:
Invoice To:
P.O.
Project Name: N.M. F State Battery
Project Number: 039122

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #: 2067218
Profile #:

Requested Analysis: BTEX 8021B, Chloride

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Ice	Remarks / Lab ID
1	MW631607	WT	03-16-07	1035a	4	X			X				X	31 2056836 4
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Joe Mireles	3-20-07	1400			
	Fed Ex	3-20-07	1600	TJ Mullen / Pace	3-20-07	1600

SAMPLE CONDITION

Temp in °C	2.0
Received on Ice	(Y)/N
Sealed Cooler	(Y)/N
Samples Intact	(Y)/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY)

ORIGINAL

SIDE FOR INSTRUCTIONS

Form CQC01 Rev 0402

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

July 30, 2007

Luke Markham
CRA
2135 S. Loop 250 West
Midland, TX 79701

RE: Project: 2071168
RE: Project ID: N.M.F. State Battery

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2071168

ACCREDITED IN ACCORDANCE WITH nelac

7/30/2007 11:11:41

Pace Analytical
New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA MIDLAND

Project: N.M.F. State Battery

Project No.: 2071168

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
RW262707	20533177	Water	06/27/2007	11:40	06/29/2007	10:10
RW362707	20533178	Water	06/27/2007	11:00	06/29/2007	10:10
MW362707	20533179	Water	06/27/2007	14:10	06/29/2007	10:10
MW462707	20533180	Water	06/27/2007	13:30	06/29/2007	10:10
MW562607	20533181	Water	06/27/2007	14:15	06/29/2007	10:10
MW662707	20533182	Water	06/27/2007	12:20	06/29/2007	10:10
MW762607	20533183	Water	06/27/2007	14:45	06/29/2007	10:10
MW862607	20533184	Water	06/27/2007	13:30	06/29/2007	10:10
WW162707	20533185	Water	06/27/2007	12:45	06/29/2007	10:10
WW262707	20533186	Water	06/27/2007	12:50	06/29/2007	10:10
DUP62707	20533187	Water	06/27/2007		06/29/2007	10:10
TRIP	20533188	Water	06/27/2007		06/29/2007	10:10

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Project Narrative

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Project: **2071168**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

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Project: 2071168

Analytical Method	Batch	Sample used for QC
EPA 8021	88399	Project sample MW362707

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Client: CRA_MIDLAND

Client ID: RW262707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533177 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/11/07 **Analyzed:** 07/11/07 14:37 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	5	2.87	D2	2.50	
100-41-4	Ethylbenzene	5	ND	D2	2.50	
108-88-3	Toluene	5	ND	D2	2.50	
	m&p-Xylene	5	30.3	D2	5.00	
95-47-6	o-Xylene	5	ND	D2	2.50	

5 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Client: CRA_MIDLAND

Client ID: RW362707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533178 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/11/07 **Analyzed:** 07/11/07 15:03 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	5	8.55	D2	2.50	
100-41-4	Ethylbenzene	5	12.2	D2	2.50	
108-88-3	Toluene	5	ND	D2	2.50	
	m&p-Xylene	5	27.0	D2	5.00	
95-47-6	o-Xylene	5	ND	D2	2.50	

5 compound(s) reported

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Client: CRA_MIDLAND

Client ID: MW362707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533179 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 18:38 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW462707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533180 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 19:54 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW562607 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533181 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 21:36 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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Client: CRA_MIDLAND

Client ID: MW662707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533182 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 22:01 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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Client: CRA MIDLAND

Client ID: MW762607 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533183 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 22:27 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW862607 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533184 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 22:52 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: WW162707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533185 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/10/07 **Analyzed:** 07/10/07 23:18 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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Client: CRA_MIDLAND

Client ID: WW262707 | **Site:** None

Project: N.M.F. State Battery | **Project No.:** 2071168 | **Sample Qu:**

Lab ID: 20533186 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 88399

Method: 8021 VOAs Water | **Units:** ug/L | **Target List:** 8021_WL20

Collected: 06/27/07 | **Received:** 06/29/07

Prep Factor: 1 | **Prepared:** 07/10/07 | **Analyzed:** 07/10/07 23:43 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: DUP62707 **Site:** None

Project: N.M.F. State Battery **Project No.:** 2071168 **Sample Qu:**

Lab ID: 20533187 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 88399

Method: 8021 VOAs Water **Units:** ug/L **Target List:** 8021_WL20

Collected: 06/27/07 **Received:** 06/29/07

Prep Factor: 1 **Prepared:** 07/11/07 **Analyzed:** 07/11/07 00:09 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: TRIP
Site: None
Project: N.M.F. State Battery
Project No.: 2071168
Sample Qu:
Lab ID: 20533188
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 88399
Method: 8021 VOAs Water
Units: ug/L
Target List: 8021_WL20
Collected: 06/27/07
Received: 06/29/07
Prep Factor: 1
Prepared: 07/11/07
Analyzed: 07/11/07 00:34 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.500	
100-41-4	Ethylbenzene	1	ND		0.500	
108-88-3	Toluene	1	ND		0.500	
	m&p-Xylene	1	ND		1.00	
95-47-6	o-Xylene	1	ND		0.500	

5 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

7/30/2007 11:12:19

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8021 **Project:** 2071168 **LCS:** 20535231 7/10/2007 4:30:00 PM

Batch: 88399 **MS:** 20535575 7/10/2007 7:03:00 PM

Units: ug/L **Original for MS:** 20533179 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20	21.98	110	20	0.00	21.71	21.73	109	109	0	72 - 133	51 - 147	20	
Ethylbenzene	20	21.85	109	20	0.00	21.05	21.38	105	107	2	75 - 136	55 - 145	20	
Toluene	20	21.83	109	20	0.00	21.32	21.47	107	107	1	77 - 132	57 - 143	20	
m&p-Xylene	40	43.42	109	40	0.00	41.59	42.36	104	106	2	79 - 136	79 - 130	20	
o-Xylene	20	21.89	109	20	0.00	21.53	21.77	108	109	1	79 - 136	79 - 130	20	

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

7/30/2007 11:12:22

Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8021 **Project:** 2071168 **LCS:** 20535579 7/11/2007 2:12:00 PM

Batch: 88399 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20	21.98	110								72 - 133	-		
Ethylbenzene	20	21.8	109								75 - 136	-		
Toluene	20	21.99	110								77 - 132	-		
m&p-Xylene	40	43.45	109								79 - 136	-		
o-Xylene	20	21.82	109								79 - 136	-		

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

7/30/2007 11:12:23

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health Environment - E-10266
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Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2071168 **Batch: 88399**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20533177	Sample D2	92							
20533178	Sample D2	96							
20533179	Sample	85							
20533180	Sample	86							
20533181	Sample	81							
20533182	Sample	79							
20533183	Sample	80							
20533184	Sample	78							
20533185	Sample	77							
20533186	Sample	77							
20533187	Sample	80							
20533188	Sample	78							
20535230	BLANK	81							
20535231	LCS	94							
20535575	MS	97							
20535576	MSD	96							
20535577	BLANK	80							
20535578	BLANK	82							
20535579	LCS	92							
20535582	BLANK	85							
	QC limits:	58-143							

Sur 1: 4-Bromofluorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

7/30/2007 11:12:25

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20535230

Description: 8021 VOAs Water Blank **Project No.:** 2071168

Method: EPA 8021 **Batch:** 88399 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Jul-07 **Analyzed:** 07/10/07 16:05 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl-tert-butyl ether	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
	m&p-Xylene	1	ND		1.00
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

7/30/2007 11:12:29

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20535577

Description: 8021 VOAs Water Blank **Project No.:** 2071168

Method: EPA 8021 **Batch:** 88399 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Jul-07 **Analyzed:** 07/10/07 21:10 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl-tert-butyl ether	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
	m&p-Xylene	1	ND		1.00
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

7/30/2007 11:12:29

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical®
New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20535578

Description: 8021 VOAs Water Blank **Project No.:** 2071168

Method: EPA 8021 **Batch:** 88399 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 11-Jul-07 **Analyzed:** 07/11/07 13:46 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl-tert-butyl ether	1	ND		0.500
108-88-3	Toluene	1	0.416 J		0.500
	m&p-Xylene	1	ND		1.00
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

7/30/2007 11:12:29

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2071168

General Qualifiers

Qualifier	Qualifier Description
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®
www.pacelabs.com

2071168 752388

Page: 1 of 1

Section A — Required Client Information:

Company: CRA
Address: 2135 S. Loop 250 W.
Midland, TX 79703
Phone: 432-686-0086 Fax: 686-0186

Section B — Required Client Information:

Report To: Luke Markham
Copy To:
Invoice To:
P.O.:
Project Name: N.M.F State Battery
Project Number: 039127

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #:

Requested Analysis: BTEX 8021b, Chlorides 300

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — WATER WT; SOIL SL; OIL OL; WIPE WP; AIR AR; TISSUE TS; OTHER OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm/dd/yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	RW-2	GT	6-27-07	1140	4	1			3					3053171
2	RW-3		06/27/07	1100										3178
3	MW-3		06/27/07	1410										3179
4	MW-4		06/27/07	1330										3180
5	MW-5		06/26/07	1415										3181
6	MW-6		06/27/07	1220										3182
7	MW-7		06/26/07	1445										3183
8	MW-8		06/26/07	1330										3184
9	MW-1		06/27/07	1245										3185
10	MW-2		06/27/07	1250										3186
11	DUP		06/27/07	—										3187
12	TRIP	WT	—	—	4	1			3					3188

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fedex					Joe Mireles	6-28-07	0815			
					Fed Ex	6-29-07	1010	[signature] Pace	6-29-07	1010

SAMPLE CONDITION

Temp in °C	4.1
Received on Ice	(Y)/N
Sealed Cooler	(Y)/N
Samples Intact	(Y)/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Mireles
SIGNATURE of SAMPLER: [signature] DATE Signed: (MM / DD / YY) 06-28-07

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0402

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 885650

Client: PACE ANALYTICAL SERVICES, INC.
Lab Contact: Eric Wied

Project Name: CRA

Project Number: 2071168

Lab Sample Number	Field ID	Matrix	Collection Date
885650-001	20533177 RW262707	WATER	06/27/07 11:40
885650-002	20533178 RW362707	WATER	06/27/07 11:00
885650-003	20533179 MW362707	WATER	06/27/07 14:10
885650-004	20533180 MW462707	WATER	06/27/07 13:30
885650-005	20533181 MW562607	WATER	06/26/07 14:15
885650-006	20533182 MW662707	WATER	06/27/07 12:20
885650-007	20533183 MW762607	WATER	06/26/07 14:45
885650-008	20533184 MW862607	WATER	06/26/07 13:30
885650-009	20533185 WW162707	WATER	06/27/07 12:45
885650-010	20533186 WW262707	WATER	06/27/07 12:50
885650-011	20533187 DUP62707	WATER	06/27/07

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

C. Wied
Approval Signature

07-11-07
Date

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533177 RW262707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-001

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	60	5.0	1	mg/L		07/06/07 12:37 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533178 RW362707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-002

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	130	50	10	mg/L		07/06/07 01:23 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533179 MW362707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-003

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	31	5.0	1	mg/L		07/06/07 01:05 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533180 MW462707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-004

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	39	5.0	1	mg/L		07/06/07 01:19 AM	EPA 300.0	EPA 300.0
					Prep Date/Time:			**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533181 MW562607

Matrix Type : WATER
Collection Date : 06/26/07
Report Date : 07/11/07
Lab Sample Number : 885650-005

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	67	5.0	1	mg/L		07/06/07 01:33 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533182 MW662707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-006

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	110	50	10	mg/L		07/06/07 01:35 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533183 MW762607

Matrix Type : WATER
Collection Date : 06/26/07
Report Date : 07/11/07
Lab Sample Number : 885650-007

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	110	50	10	mg/L		07/06/07 01:47 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533184 MW862607

Matrix Type : WATER
Collection Date : 06/26/07
Report Date : 07/11/07
Lab Sample Number : 885650-008

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	79	5.0	1	mg/L		07/06/07 02:16 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533185 WW162707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-009

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	52	5.0	1	mg/L		07/06/07 02:30 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		**Anl By:** GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533186 WW262707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-010

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	46	5.0	1	mg/L		07/06/07 02:44 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 885650

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2071168
Field ID : 20533187 DUP62707

Matrix Type : WATER
Collection Date : 06/27/07
Report Date : 07/11/07
Lab Sample Number : 885650-011

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	30	5.0	1	mg/L		07/06/07 03:27 AM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	885650-001	885650-002	885650-003	885650-004	885650-005	885650-006	885650-007	885650-008	885650-009	885650-010	885650-011
CHLORIDE	B	B	B	B	B	B	B	B	B	B	B

Code	NM Certification
B	Not Certified

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

QC Summary

Batch: 885650
Lab Section: WETCHEM
QC Batch Number: 22576
Prep Method: EPA 300.0
Analytical Method: EPA 300.0

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2232-053MB	WCG2232-053MB
LCS	WCG2232-053MBLCS	WCG2232-053MBLCS
MS	20533187 DUP62707MS	885650-011MS
MS	885505-001MS	885505-001MS
MSD	20533187 DUP62707MSD	885650-011MSD
MSD	885505-001MSD	885505-001MSD

Client Sample ID	Lab Sample ID	MB ID
20533177 RW262707	885650-001	MB
20533179 MW362707	885650-003	MB
20533181 MW562607	885650-005	MB
20533183 MW762607	885650-007	MB
20533185 WW162707	885650-009	MB
20533187 DUP62707	885650-011	MB

Client Sample ID	Lab Sample ID	MB ID
20533178 RW362707	885650-002	MB
20533180 MW462707	885650-004	MB
20533182 MW662707	885650-006	MB
20533184 MW862607	885650-008	MB
20533186 WW262707	885650-010	MB

Test Name	Method Blank Result Conc		LCS Spiked Conc	LCS Recovery Conc	LCS Recovery %	C	LCSD Spiked Conc	LCSD Recovery Conc	LCSD Recovery %	C	LCS/LCSD RPD %	C	LCS/LCSD Control Limits LCL %	LCS/LCSD Control Limits UCL %	LCS/LCSD Control Limits RPD %	Parent Sample Number		Parent Result Conc	MS Spiked Conc	MS Recovery Conc	MS Recovery %	C	MSD Spiked Conc	MSD Recovery Conc	MSD Recovery %	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	MS/MSD Control Limits UCL %	MS/MSD Control Limits RPD %
Chloride	<	5	20.0	19.9	99.6		---	---	---		---		90	110	20	885505-001		5.02	20.0	24.2	95.8		20.0	24	95.0		0.7		90	110	20
Chloride	<	5	20.0	19.9	99.6		---	---	--		---		90	110	20	885650-011		29.9	20.0	51.4	107.1		20.0	51.2	106.5		0.2		90	110	20

Conc = mg/L unless otherwise noted
C = QC Code, see Qualifer Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 7/11/2007
QC Batch Number: 22576

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pace – LA Project # 88565d

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional: Proj. Due Date: Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AG 7/3/07 ic 7/3/07

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 07.03.07

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3, 11September2006

16

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®
www.pacelabs.com

2071168 752388

Page: 1 of 1

Section A — Required Client Information:

Company: CRA
Address: 2135 S. Loop 250 W.
Midland, TX 79703
Phone: 432-686-0086 Fax: 686-0186

Section B — Required Client Information:

Report To: Luke Markham
Copy To:
Invoice To:
P.O.
Project Name: N.M. F State Battery
Project Number: 039122

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #: 885650

Requested Analysis: BTEX 8021b, Chlorides 300

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	RW2 062707 001	LT	6-27-07	1140	4	1			3					3 1 250 mL Poly 8053317
2	RW3 062707 002		06/27/07	1100										3 1 3178
3	MW3 062707 003		06/27/07	1410										3 1 3179
4	MW4 062707 004		06/27/07	1330										3 1 3180
5	MW5 062607 005		06/26/07	1415										3 1 3181
6	MW6 062707 006		06/27/07	1220										3 1 3182
7	MW7 062607 007		06/26/07	1445										3 1 3183
8	MW8 062607 008		06/26/07	1330										3 1 3184
9	MW1 062707 009		06/27/07	1245										3 1 3185
10	MW2 062707 010		06/27/07	1750										3 1 3186
11	DUP 062707 011		06/27/07	—										3 1 — 3187
12	TRIP	WT	—	—	4	1			3					2 3188

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
Fedex			

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Joe Mireles	6-28-07	0815			
	Fed Ex	6-29-07	1010	Pace	6-29-07	1010
		7-2-07	1100	Fed Ex		
	Fed Ex	7-3-07	1010		7/3/07	1010

SAMPLE CONDITION

Temp in °C	4.1
Received on Ice	(Y)N
Sealed Cooler	(Y)N
Samples Intact	(Y)N

SAMPLE NOTES

Additional Comments:

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Mireles
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 06-28-07

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0402

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

October 10, 2007

Luke Markham
CRA
2135 S. Loop 250 West
Midland, TX 79701

RE: Project: 2074375
RE: Project ID: NM "F" STATE/039122

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
New Orleans Laboratory

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2074375

Client: CRA_MIDLAND

Project ID: NM "F" STATE/039122

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
MW6 92707	20556118	Water	09/27/07 11:20	09/28/07 10:45

10/10/2007 10:29:39

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New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2074375

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2074375

Analytical Method	Batch	Sample used for QC
EPA 8015 Mod/8021 Mod	92513	Batch sample from another client
SM 4500-Cl E	92115	Batch sample from another client

10/10/2007 10:30:11

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW6 92707 **Project:** 2074375

Project ID: NM "F" STATE/039122 **Site:** None

Lab ID: 20556118 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 92513

Method: GC Volatile Organics Water

Collected: 27-Sep-07 **Received:** 28-Sep-07

Prepared: 09-Oct-07 **Analyzed:** 09-Oct-07 15:44 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

10/10/2007 10:30:14

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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New Orleans Laboratory

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW6 92707
Project: 2074375
Project ID: NM "F" STATE/039122
Site: None
Lab ID: 20556118
Matrix: Water
%Moisture: n/a
Description: None
Collected: 09/27/07
Received: 09/28/07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	92115	1		99.5	mg/L	1.00	28-Sep-07	28-Sep-07 18:11	MHM	

1 parameter(s) reported

10/10/2007 10:30:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
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Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Organics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2074375 **LCS:** 20558646 10/9/2007 9:04:00 AM

Batch: 92513 **MS:** 20558647 10/9/2007 12:14:00 PM

Units: mg/L **Original for MS:** 2055556 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.0208	104	0.02	0.00	0.01997	0.02194	100	109	9	72 - 133	51 - 147	20	
Ethylbenzene	0.02	0.02133	107	0.02	0.00	0.0204	0.02218	102	110	8	75 - 136	55 - 145	20	
Toluene	0.02	0.0207	104	0.02	0.00	0.01985	0.02167	99	108	9	77 - 132	57 - 143	20	
m&p-Xylene	0.04	0.04289	107	0.04	0.00	0.04112	0.0444	102	110	8	79 - 136	79 - 130	20	
o-Xylene	0.02	0.02163	108	0.02	0.00	0.02083	0.02247	103	111	8	79 - 136	79 - 130	20	

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

10/10/2007 10:30:20

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Organics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2074375 **LCS:** 20559142 10/9/2007 11:53:00 AM

Batch: 92513 **MS:** 20558647 10/9/2007 12:14:00 PM

Units: mg/L **Original for MS:** 2055556 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.01923	96	0.02	0.00	0.01997	0.02194	100	109	9	72 - 133	51 - 147	20	
Ethylbenzene	0.02	0.01983	99	0.02	0.00	0.0204	0.02218	102	110	8	75 - 136	55 - 145	20	
Toluene	0.02	0.01918	96	0.02	0.00	0.01985	0.02167	99	108	9	77 - 132	57 - 143	20	
m&p-Xylene	0.04	0.03987	100	0.04	0.00	0.04112	0.0444	102	110	8	79 - 136	79 - 130	20	
o-Xylene	0.02	0.02014	101	0.02	0.00	0.02083	0.02247	103	111	8	79 - 136	79 - 130	20	

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

10/10/2007 10:30:20

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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New Orleans Laboratory

Organics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2074375 **LCS:** 20559144 10/9/2007 7:37:00 PM

Batch: 92513 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.02173	109								72 - 133	-		
Ethylbenzene	0.02	0.0222	111								75 - 136	-		
Toluene	0.02	0.02157	108								77 - 132	-		
m&p-Xylene	0.04	0.04457	111								79 - 136	-		
o-Xylene	0.02	0.02234	112								79 - 136	-		

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

10/10/2007 10:30:20

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
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New Orleans Laboratory

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Batch: 92513 **Project:** 2074375

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20558645	92513 BLANK 1		101							
20559141	92513 BLANK 2		95							
20559143	92513 BLANK 3		101							
20558646	92513 LCS 1		96							
20559142	92513 LCS 2		96							
20559144	92513 LCS 3		102							
20556118	MW6 92707		102							
20558647	MW-AMS 1		98							
20558648	MW-AMSD 1		98							
	QC limits:		58-143							

Sur 1: 4-Bromofluorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

10/10/2007 10:30:23

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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New Orleans Laboratory

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2074375

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Chloride	92115	ND	1.00	mg/L	72.1	74.04	103	100	57.98	159		101			0	90 - 110	75 - 125	20	

* denotes recovery outside of QC limits.
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

10/10/2007 10:30:26

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

CHAIN-OF-CUSTODY / Analytical Request Document

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

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752386

Page: 1 of 1

Section A — Required Client Information:

Company: CRA
Address: 2135 S. Loop 250 W. Midland, Tx. 79703
Phone: 432-686-0086 Fax: 432-686-0186

Section B — Required Client Information:

Report To: Luke Markham w/CRA
Copy To:
Invoice To: Conestoga-Rovers & Assoc.
P.O.:
Project Name: N.M. #11 State
Project Number: 039122

Client Information (Check quote/contract):
Requested Due Date:
*TAT: 10 Days

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client — **Section C**

Quote Reference:
Project Manager:
Project #: 2074370
Profile #:

Section D — Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX 8021B Chloride	Remarks / Lab ID
1	MW6 92707	WT	9/27/07	11:20	4	X			X					3 1	2705118
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
		9/27/07	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	FedEx	9/28/07	1045	Nimell / Pace	9-28-07	1045

SAMPLE CONDITION

Temp in °C	2.1
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Mireles
SIGNATURE of SAMPLER: Joe Mireles
DATE Signed: (MM / DD / YY) 09/27/07

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0402

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New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

December 27, 2007

Luke Markham
CRA
2135 S. Loop 250 West
Midland, TX 79701

RE: Project: 2077045
RE: Project ID: N.M.F State

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2077045

Client: CRA MIDLAND

Project ID: N.M.F State

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
MW3121407	20577156	Water	14-Dec-07 10:40	15-Dec-07 10:30
MW5121407	20577157	Water	14-Dec-07 13:05	15-Dec-07 10:30
MW6121407	20577158	Water	14-Dec-07 11:15	15-Dec-07 10:30
MW7121407	20577159	Water	13-Dec-07 13:20	15-Dec-07 10:30
MW8121407	20577160	Water	13-Dec-07 12:18	15-Dec-07 10:30
WW1121407	20577161	Water	14-Dec-07 11:20	15-Dec-07 10:30
WW2121407	20577162	Water	14-Dec-07 11:25	15-Dec-07 10:30
DUP1	20577163	Water	14-Dec-07 00:00	15-Dec-07 10:30
MW4121307	20577165	Water	13-Dec-07 12:35	15-Dec-07 10:30

12/27/2007 10:12:04

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2077045

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

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LELAP # 02006

Project: 2077045

Analytical Method	Batch	Sample used for QC
EPA 8015 Mod/8021 Mod	95836	Batch sample from another client
SM 4500-Cl E	95544	Project sample MW4121307

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Sample Results

Pace Analytical Services, Inc.
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Phone: 504.469.0333
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW3121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577156 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95836

Method: GC Volatile Organics Water

Collected: 14-Dec-07 **Received:** 15-Dec-07

Prepared: 26-Dec-07 **Analyzed:** 26-Dec-07 12:35 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Phone: 504.469.0333
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW5121407
Project: 2077045
Project ID: N.M.F State
Site: None
Lab ID: 20577157
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 95836
Method: GC Volatile Organics Water

Collected: 14-Dec-07
Received: 15-Dec-07
Prepared: 26-Dec-07
Analyzed: 26-Dec-07 12:57 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW6121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577158 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95836

Method: GC Volatile Organics Water

Collected: 14-Dec-07 **Received:** 15-Dec-07

Prepared: 26-Dec-07 **Analyzed:** 26-Dec-07 13:18 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

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MDL denotes method detection limit

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW7121407
Project ID: N.M.F State
Lab ID: 20577159
Description: None
Method: GC Volatile Organics Water

Project: 2077045
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 95739

Collected: 13-Dec-07
Received: 15-Dec-07
Prepared: 21-Dec-07
Analyzed: 21-Dec-07 07:59 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW8121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577160 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95739

Method: GC Volatile Organics Water

Collected: 13-Dec-07 **Received:** 15-Dec-07

Prepared: 21-Dec-07 **Analyzed:** 21-Dec-07 08:20 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: WW1121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577161 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95836

Method: GC Volatile Organics Water

Collected: 14-Dec-07 **Received:** 15-Dec-07

Prepared: 26-Dec-07 **Analyzed:** 26-Dec-07 14:01 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

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MDL denotes method detection limit

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: WW2121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577162 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95836

Method: GC Volatile Organics Water

Collected: 14-Dec-07 **Received:** 15-Dec-07

Prepared: 26-Dec-07 **Analyzed:** 26-Dec-07 14:22 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: DUP1
Project ID: N.M.F State
Lab ID: 20577163
Description: None
Method: GC Volatile Organics Water

Project: 2077045
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 95836

Collected: 14-Dec-07
Received: 15-Dec-07
Prepared: 26-Dec-07
Analyzed: 26-Dec-07 14:44 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		ND	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		ND	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

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Phone: 504.469.0333
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW4121307 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577165 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 95739

Method: GC Volatile Organics Water

Collected: 13-Dec-07 **Received:** 15-Dec-07

Prepared: 21-Dec-07 **Analyzed:** 21-Dec-07 08:42 DET

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	Reg Limit
71-43-2	Benzene	1		0.000968	0.000500	
100-41-4	Ethylbenzene	1		ND	0.000500	
108-88-3	Toluene	1		ND	0.000500	
	m&p-Xylene	1		0.00254	0.00100	
95-47-6	o-Xylene	1		ND	0.000500	

5 compound(s) reported

12/27/2007 10:13:18

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MDL denotes method detection limit

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA MIDLAND

Client ID: MW3121407
Project: 2077045
Project ID: N.M.F State
Site: None
Lab ID: 20577156
Matrix: Water
%Moisture: n/a
Description: None
Collected: 14-Dec-07
Received: 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		30.9	mg/L	1.00	17-Dec-07	17-Dec-07 12:53	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW5121407
Project: 2077045
Project ID: N.M.F State
Site: None
Lab ID: 20577157
Matrix: Water
%Moisture: n/a
Description: None
Collected: 14-Dec-07
Received: 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		101.	mg/L	1.00	17-Dec-07	17-Dec-07 12:53	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Sample Results

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW6121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577158 **Matrix:** Water **%Moisture:** n/a

Description: None **Collected:** 14-Dec-07 **Received:** 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		99.2	mg/L	1.00	17-Dec-07	17-Dec-07 12:53	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: CRA_MIDLAND

Client ID: MW7121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577159 **Matrix:** Water **%Moisture:** n/a

Description: None **Collected:** 13-Dec-07 **Received:** 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		135.	mg/L	1.00	17-Dec-07	17-Dec-07	15:06 TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW8121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577160 **Matrix:** Water **%Moisture:** n/a

Description: None **Collected:** 13-Dec-07 **Received:** 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		82.9	mg/L	1.00	17-Dec-07	17-Dec-07 15:06	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Client: CRA MIDLAND

Client ID: WW1121407
Project: 2077045
Project ID: N.M.F State
Site: None
Lab ID: 20577161
Matrix: Water
%Moisture: n/a
Description: None
Collected: 14-Dec-07
Received: 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		59.8	mg/L	1.00	17-Dec-07	17-Dec-07 12:53	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Client: CRA_MIDLAND

Client ID: WW2121407 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577162 **Matrix:** Water **%Moisture:** n/a

Description: None **Collected:** 14-Dec-07 **Received:** 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		83.1	mg/L	1.00	17-Dec-07	17-Dec-07 12:53	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Client: CRA_MIDLAND

Client ID: MW4121307 **Project:** 2077045

Project ID: N.M.F State **Site:** None

Lab ID: 20577165 **Matrix:** Water **%Moisture:** n/a

Description: None **Collected:** 13-Dec-07 **Received:** 15-Dec-07

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Chloride	SM 4500-Cl	95544	1		63.1	mg/L	1.00	17-Dec-07	17-Dec-07 15:06	TAE	

1 parameter(s) reported

12/27/2007 10:13:34

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2077045 **LCS:** 20578743 21-Dec-07 4:46

Batch: 95739 **MS:**

MSD:

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.02061	103								78 - 132	-		Q5
Ethylbenzene	0.02	0.02093	105								80 - 129	-		Q5
Toluene	0.02	0.02055	103								80 - 127	-		Q5
m&p-Xylene	0.04	0.04096	102								80 - 129	-		Q5
o-Xylene	0.02	0.02104	105								82 - 130	-		Q5

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

12/27/2007 10:13:50

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LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2077045 **LCS:** 20579388 26-Dec-07 11:10

Batch: 95836 **MS:**

MSD:

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.02153	108								78 - 132	-		
Ethylbenzene	0.02	0.0218	109								80 - 129	-		
Toluene	0.02	0.02137	107								80 - 127	-		
m&p-Xylene	0.04	0.04262	107								80 - 129	-		
o-Xylene	0.02	0.02187	109								82 - 130	-		

5 compound(s) reported

12/27/2007 10:13:50

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8015 Mod/8021 Mod **Project:** 2077045 **LCS:** 20579388 26-Dec-07 11:10

Batch: 95836 **MS:** 20578804 22-Dec-07 6:09

MSD: 20578805 22-Dec-07 6:30

Units: mg/L **Original for MS:** 20577387 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.02	0.02153	108	0.02	0.00	0.02208	0.02095	110	105	5	78 - 132	51 - 156	20	
Ethylbenzene	0.02	0.0218	109	0.02	0.00	0.02254	0.02137	112	106	5	80 - 129	40 - 163	20	
Toluene	0.02	0.02137	107	0.02	0.00	0.02214	0.02096	109	103	5	80 - 127	36 - 168	20	
m&p-Xylene	0.04	0.04262	107	0.04	0.00	0.04416	0.0421	108	103	5	80 - 129	28 - 180	20	
o-Xylene	0.02	0.02187	109	0.02	0.00	0.02286	0.02157	113	106	6	82 - 130	37 - 176	20	

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Batch: 95739 **Project:** 2077045

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20578215	95739 BLANK 1		89							
20578742	95739 BLANK 2		84							
20578216	95739 LCS 1		88							
20578743	95739 LCS 2		88							
20577165	MW4121307		111							
20577159	MW7121407		85							
20577160	MW8121407		80							
	QC limits:		60-129							

Sur 1: 4-Bromofluorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

12/27/2007 10:14:06

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Batch: 95836 **Project:** 2077045

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20578804	071214-WELLMS 1		92							
20578805	071214-WELLMSD 1		89							
20578802	95836 BLANK 1		92							
20579116	95836 BLANK 2		67							
20579387	95836 BLANK 3		60							
20578803	95836 LCS 1		102							
20579117	95836 LCS 2		89							
20579388	95836 LCS 3		88							
20577163	DUP1		80							
20577156	MW3121407		81							
20577157	MW5121407		79							
20577158	MW6121407		81							
20577161	WW1121407		73							
20577162	WW2121407		78							
	QC limits:		60-129							

Sur 1: 4-Bromofluorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

12/27/2007 10:14:06

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LELAP # 02006

Blank ID: 95739 BLANK 2 **Project:** 2077045

Lab ID: 20578742

Description: GC Volatile Organics Water BLK **Prep Level:** Water **Batch:** 95739

Method: Water EPA 8015 Mod/8021 Mo

Prepared: 21-Dec-07 **Analyzed:** 21-Dec-07 04:03

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit
71-43-2	Benzene	1		ND	0.000500
100-41-4	Ethylbenzene	1		0.0000293J	0.000500
1634-04-4	Methyl-tert-butyl ether	1		ND	0.000500
108-88-3	Toluene	1		0.0000352J	0.000500
	m&p-Xylene	1		0.0000611J	0.00100
95-47-6	o-Xylene	1		0.0000678J	0.000500
	Gasoline Range Organics(C6-10)	1		0.0248J	0.0500

7 compound(s) reported

12/27/2007 10:14:22

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Blank ID: 95836 BLANK 3 **Project:** 2077045

Lab ID: 20579387

Description: GC Volatile Organics Water BLK **Prep Level:** Water **Batch:** 95836

Method: Water EPA 8015 Mod/8021 Mo

Prepared: 26-Dec-07 **Analyzed:** 26-Dec-07 10:27

Units: mg/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit
71-43-2	Benzene	1		ND	0.000500
100-41-4	Ethylbenzene	1		ND	0.000500
1634-04-4	Methyl-tert-butyl ether	1		ND	0.000500
108-88-3	Toluene	1		ND	0.000500
	m&p-Xylene	1		ND	0.00100
95-47-6	o-Xylene	1		ND	0.000500
	Gasoline Range Organics(C6-10)	1		ND	0.0500

7 compound(s) reported

12/27/2007 10:14:22

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Project: 2077045

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Chloride	95544	ND	1.00	mg/L	39.29	43.05	110		63.12						0	90 - 110	-	20	
Chloride	95544			mg/L				100	63.12	189.6		126 *				-	75 - 125		Q1

* denotes recovery outside of QC limits.
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

12/27/2007 10:14:38

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Qualifier Summary

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LELAP # 02006

Project: 2077045

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

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

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To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company: CRA
Address: 2135 S. Loop 250 W. Midland, TX 79703
Phone: 432-686-0086 Fax: 432686 0186

Section B — Required Client Information:

Report To: Luke Markham w/CRA
Copy To:
Invoice To: Conestoga Rovers & Associates
P.O.
Project Name: N.M. F State
Project Number: 039122

Client Information (Check quote/contract):
Requested Due Date:
*TAT: 10 day

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C

Quote Reference:
Project Manager:
Project #: 2077045
Profile #: 3449 / Line 2

Section D — Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX 8021B	Chloride		Remarks / Lab ID
1	~~MW-1-2-4-07~~	WT															
2	MW-3-12-4-07		12/4/07	1040	4				X				X	X	X		20577154
3	MW-4-12-13-07		12/13/07	1235	4				X				X	X	X		165
4	MW-5-12-13-07		12/13/07	1305	4				X				X	X	X		157
5	MW-6-12-14-07		12/14/07	1115	4				X				X	X	X		158
6	MW-7-12-13-07		12/13/07	1320	4				X				X	X	X		159
7	MW-8-12-13-07		12/13/07	1218	4				X				X	X	X		160
8	WW-1-12-14-07		12/14/07	1120	4				X				X	X	X		161
9	WW-2-12-14-07	WT	12/14/07	1125	4				X				X	X	X		162
10	OCP-1	WT	—	—	4				X				X	X	X		163
11																	
12																	

SHIPMENT METHOD	AIRBILL NO	SHIPPING DATE	NO. OF COOLERS
Fedex	0215	12-14-07	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Joe Hunter CRA	12-14-07	1515			
	Fedex 12-15-07		1630	[illegible] / Pace	12/15/07	1630

SAMPLE CONDITION

Temp in °C	2.9
Received on Ice	(Y/N)
Sealed Cooler	(Y/N)
Samples Intact	(Y/N)

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Mireles
SIGNATURE of SAMPLER: Joe Mireles
DATE Signed: (MM / DD / YY) 12/14/07

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0402

2077045 20-CHEV_CRAT

Pace Analytical

Sample Condit

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: (Wet) Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/15/07 CB

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☐Yes ☑No ☐N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☐Yes ☑No ☐N/A	7 NO volume received for
Correct Containers Used:	☑Yes ☐No ☐N/A	8 Chloride test for sample
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9 Dup 1
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14
Trip Blank Present:	☐Yes ☑No ☐N/A	16
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Emailed Client 12/18/07 CB