GW - 29

MONITORING REPORTS

Vacuum Field Unit

DATE:

2006

Chevron

Matthew P. Hudson
Remediation Project Manager

Abandonment Business Unit
Chevron Environmental Management Company
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Room 2104A
Houston, TX 77009
Tel 281 561 3466
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February 16, 2007

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

Subject: 2006 Annual Groundwater Monitoring Report
Buckeye Vacuum Field Unit, Lea County, New Mexico
OGRID No. 4323

Dear Mr. Price:

Please find enclosed one copy of the above-referenced report. This report provides information and details on the groundwater monitoring activities completed by SECOR International, Inc. (SECOR) during 2006.

Should you have any questions concerning this report or the on-going work, please call myself at (281) 561-3466 or Eric Page with SECOR at (713) 937-7973.

Sincerely,

Matthew P. Hudson

Enclosure

cc: Ms. Patricia Caperton, NMOCD (electronic copy)
Mr. Eric Page, SECOR (cover letter only)

SECOR

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January 18, 2007

Mr. Scott Toner
Environmental Project Manager
Chevron Environmental Management Company
MidContinent Business Unit
11111 South Wilcrest
Houston, TX 77099

RE: 2006 Groundwater Monitoring Report
Buckeye Vacuum Field Unit
Lea County, NM
89CH.49529.07

Dear Mr. Toner:

Enclosed are two copies of the 2006 Groundwater Monitoring Report for the Buckeye Vacuum Field Unit (final report) as well as two copies on CD containing the full report contents.

If you have any comments or questions regarding the report content or conclusion, please feel free to contact me by phone at (713) 937-7973 x-227.

Sincerely,
SECOR International Incorporated

Eric Page
Sr. Project Manager

Gale McKinley
Staff Geologist

Attachments:

2006 Groundwater Monitoring Report, Buckeye Vacuum Field Unit, Lea County, NM

Cc
SECOR file

2006 ANNUAL GROUNDWATER MONITORING REPORT
BUCKEYE VACUUM FIELD UNIT
LEA COUNTY, NM

January 2007

89CH.49386.07

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1.0 INTRODUCTION

1.1 Site Setting

The Buckeye Vacuum Field Unit site is located in Unit Letter O (SW/4, SE/4), Section 36, Township 17 South, Range 34 East, Lea County, New Mexico (**Figure 1**). The site is immediately south of County Road 57 and was originally owned and operated by Texaco Exploration and Production Inc. (Texaco) and operated as the Buckeye Vacuum Unit. Chevron North America Exploration and Production Company (Chevron) retains environmental liability. The Buckeye Compressor Station is located to the north of the site across County Road 57. The overall site plan is shown on **Figure 2**.

1.2 Environmental and Remediation History

In 1989, a total of 23 monitor wells were installed at the site to determine the source, and delineate the extent of chloride impact to groundwater. Two extraction wells (RW-1 and RW-2) were also installed and continuously pumped to remediate groundwater at the site. A casing leak in a production well located on the property (VG SAU #58) was determined to be the source of the chloride impacting the groundwater. The production well was repaired in 1990 and plugged and abandoned in 2000.

Groundwater monitoring of all monitor wells (TW-1 through TW-23) and the two recovery wells (RW-1 and RW-2) was conducted from 1990 through 1998. Thirteen monitor wells were plugged and abandoned in 1999, and nine monitor wells were sampled on a quarterly basis. Monitor well TW-23 was sampled on a monthly basis. As directed by the New Mexico Oil Conservation Division (NMOCD), six monitor wells and the two extraction wells were sampled on a semi-annual basis during 2000 and 2001, and monitor well TW-23 was sampled quarterly. Pumping from wells RW-1 and RW-2 ceased in 2001 and a third extraction well (RW-3), located in the vicinity of monitor well TW-23, was installed in 2001. Groundwater recovery from extraction well RW-3 was initiated shortly after installation.

Following a sampling schedule directed by the NMOCD, groundwater monitoring continued at the site during 2002. Chevron submitted a Groundwater Monitoring Summary and Closure Report to the NMOCD on December 20, 2002, and requested closure. Site closure was denied by the NMOCD in a letter dated March 19, 2003, and groundwater monitoring was continued as directed.

Chevron conducted groundwater monitoring at the site during 2003 and submitted an *Annual Groundwater Monitoring Report,* dated May 10, 2004, to the NMOCD. Based on the contents of that report, CEMC proposed a reduced sampling schedule, with seven monitor wells (TW-10, TW-11, TW-13, TW-14, TW-17, TW-19, and TW-20) to be sampled for chloride and total dissolved solids (TDS) semi-annually, and three monitor wells (TW-9, TW-15, and TW-23) to be sampled on a quarterly basis. The monitoring schedule was approved by NMOCD on September 30, 2004.

Following the 2004 monitoring schedule, groundwater samples were collected from three monitor wells (TW-9, TW-15, and TW-23) in January 2006 and from twelve monitor and recovery wells (TW-9 TW-10, TW-11, TW-13, TW-14, TW-15, TW-17, TW-19, TW-20, TW-23, RW-2 and RW-3) wells in April and October 2006. The results are included in this report.

2.0 CURRENT FIELD ACTIVITIES

As per the *Annual Groundwater Monitoring Report* of April 25, 2005, Chevron proposed to continue groundwater monitoring the ten monitor wells until chloride concentrations have been remediated to below the New Mexico Water Quality Control Commission (NMWQCC) standards for a minimum of four consecutive quarters or four consecutive longer term sampling events.

2.1 Monitor Well Gauging

Historical groundwater elevations for each sampling event are provided on **Table 1**. Potentiometric surface maps for April and October 2006 are provided as **Figures 3 and 4**. Over the course of 2006, groundwater elevations ranged from 3858.81 to 3860.61 feet above mean sea level across the site. The groundwater flow direction is toward the northeast, with an average hydraulic gradient of approximately 0.002 vertical feet per horizontal foot.

2.2 Groundwater Sample Collection

Static groundwater elevation measurements were taken prior to each sampling event with an electronic water/hydrocarbon interface probe. Groundwater samples were collected on January 12, 2006 from monitor wells TW-9, TW-15 and TW-23. The groundwater samples were delivered under chain-of-custody control to Lancaster Laboratories, Lancaster, PA and analyzed for chloride (EPA Method 300.0) and total dissolved solids (TDS) (EPA Method 160.1).

On April 6 and October 2-3, 2006 groundwater samples were collected from all ten monitor wells and two extraction wells at the site. Prior to sample collection, the wells were purged of a minimum of three casing volumes. The groundwater samples were collected using disposable PVC bailers following successful purging. The samples were then transferred to sample containers provided by the laboratory, labeled by the field groundwater sampler, placed on ice in a cooler, kept at a temperature of 4°C, and shipped under chain-of-custody to Lancaster Laboratories in Lancaster, PA for laboratory analysis. The groundwater samples were analyzed for chloride (EPA Method 300.0) and TDS (EPA Method 160.1). The results of all the 2006 sampling events are discussed in Section 3.0 of this report. Laboratory analytical reports for each sampling event of 2006 are included in the Appendices.

Purged groundwater from the sampling activities was disposed at an NMOCD permitted salt water disposal facility operated by Chapparel Services, Inc., located in Eunice, New Mexico.

2.3 Groundwater Remediation and Waste Management

Groundwater is currently pumped from extraction well RW-3 on an alternating pumping (six hours on) and recovery (48 hours off) schedule to flush residual chloride from the capillary zone in the vicinity of VG SAU #58. The extracted groundwater is used as non-contact cooling water at the Buckeye Compressor Station, located north of the site, across County Road 57. Depth to groundwater measurements have been collected bi-weekly from October 2005 to August 2006 from all monitor and recovery wells on the site to observe any effects in groundwater levels caused by the pumping of extraction well RW-3. These results are provided in **Table 2**. Also

included in the table is the recorded recovery from extraction well RW-3 during this period. The chloride plume (concentrations exceeding 250 mg/L) has been localized around TW-23 and RW-3.

3.0 ANALYTICAL RESULTS

Analytical results for 2006 are presented in **Table 3** which also includes historical data. The groundwater samples were analyzed for chloride (EPA Method 300.0) and TDS (EPA Method 160.1). The NMOCD provides regulatory oversight for this site, but uses the remediation standards set by the NMWQCC for chloride (250 mg/L) and for TDS (1,000 mg/L).

3.1 Chloride

3.1.1 January 2006 Sampling Event

As per the sampling schedule approved by the NMOCD, chloride and TDS concentrations were measured in groundwater samples collected from monitor wells TW-9, TW-15 and TW-23 on January 12, 2006. Chloride concentrations were 49.6 mg/L, 144 mg/L and 272 mg/L, respectively. These concentrations were lower than those measured on October 27, 2005. TDS concentrations were also lower than those measured in October 2005. Monitor well TW-23 continues to exhibit a TDS concentration above the NMWQCC standard of 1,000 mg/L.

3.1.2 April 2006 Sampling Event

An isopleth map of chloride concentrations for the April 2006 sampling event is presented in **Figure 5**. Chloride concentrations measured in twelve groundwater samples collected on April 5-6, 2006 ranged from 34.3 mg/L (TW-20) to 791 mg/L (RW-3). All chloride concentrations from the groundwater samples collected were below the NMWQCC standard of 250 mg/L with the exception of the groundwater sample collected from recovery well RW-3.

3.1.3 October 2006 Sampling Event

An isopleth map of chloride concentrations for the October 2006 sampling event is presented in **Figure 6.** Chloride concentrations measured in twelve groundwater samples collected on October 2-3, 2006 ranged from 33.2 mg/L (TW-19) to 1,060 mg/L (RW-3). All chloride concentrations from the groundwater samples collected were below the NMWQCC standard of 250 mg/L with the exception of the groundwater samples collected from recovery well RW-3 (1,060 mg/L) and monitor well MW-23 (253 mg/L).

Historical chloride data trend charts for monitor well TW-23 and recovery wells RW-2 and RW-3 are included as **Figures 7, 8 and 9,** respectively.

3.2 Total Dissolved Solids

TDS concentrations were above the NMWQCC remediation standard of 1,000 mg/L for groundwater samples collected from TW-23 and RW-3 during 2006. The groundwater sample collected on January 12, 2006 from monitor well TW-23 exhibited a TDS concentration of 1,090 mg/L. Groundwater samples collected from TW-23 during the April and October 2006 sampling events exhibited TDS concentrations of 1,070 mg/L for both events. Extraction well RW-3 exhibited TDS concentrations of 1,700 mg/L in the groundwater sample collected on April 7,

2006 and 1,930 mg/L in the groundwater sample collected on October 2, 2006. All other TDS concentrations measured in the groundwater samples collected during 2006 were below the NMWQCC standard.

4. SUMMARY AND RECOMMENDATIONS

The following findings and conclusions can be drawn from the 2006 groundwater monitoring events:

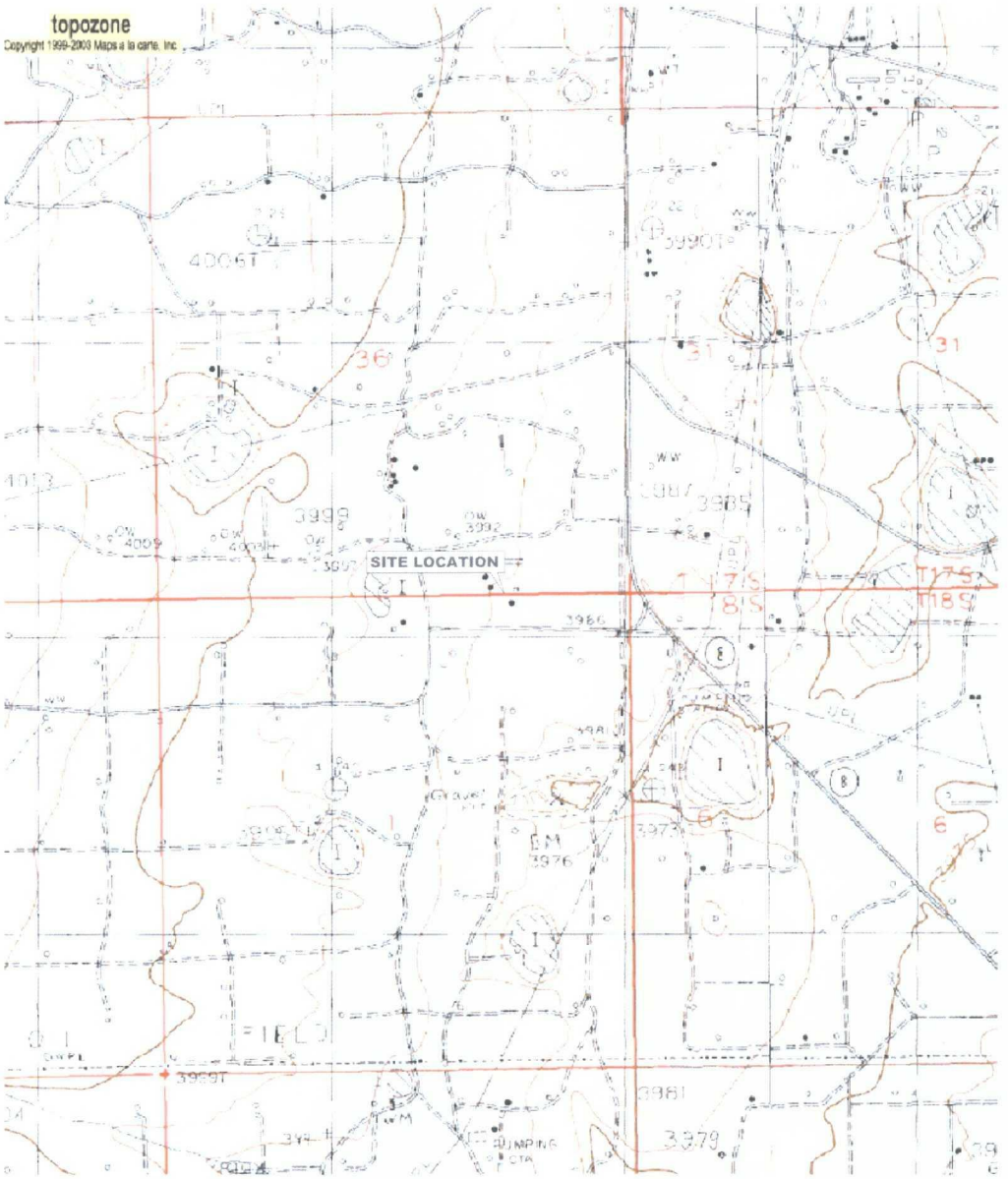
- Depth to groundwater ranged from 123.61 feet (TW-15) to 129.59 (TW-20) from below top of casing (TOC) on April 3, 2006.
- Depth to groundwater ranged from 123.59 feet (TW-15) to 129.20 (TW-20) from below TOC on October 3, 2006.
- The groundwater flow direction is toward the northeast, with an approximate hydraulic gradient of 0.002 vertical feet per horizontal foot.
- All monitor wells except for TW-23 and extraction wells RW-2 and RW-3, have exhibited chloride concentrations below the NMWQCC standard of 250 mg/L for a minimum of four consecutive quarters.
- Monitor well TW-23 exhibited chloride concentrations of 272 mg/L (January 2006), 35.2 mg/L (April 2006) and 253 mg/L (October 2006). Concentrations were above the 250 mg/L NMWQCC state standard for two of the events. Extraction well RW-3 exhibited chloride concentrations of 791 mg/L (April 2006) and 1,060 mg/L (October 2006), also above the state standard. Chloride concentrations remain elevated in samples collected from RW-3, however, they are trending lower in samples collected from monitor well TW-23.
- Extraction well RW-2 has exhibited chloride concentrations below the NMWQCC standard since groundwater samples were first collected on May 28, 2004. The only exception was the sampling event in October 2005, where the chloride concentration was measured at 264 mg/L. Chloride concentrations have been below the NMWQCC standard in groundwater samples collected from RW-2 in 2006.
- Groundwater recovery from extraction well RW-3 is currently ongoing and is having a positive impact on the chloride concentrations measured in TW-23.
- TDS concentrations measured in the groundwater samples collected during 2006 were below the NMWQCC standard of 1,000 mg/L for all of the monitor or extraction wells except for groundwater samples collected from TW-23 and RW-3. The highest TDS concentration measured from TW-23 was 1,090 (January 12, 2006) and from RW-3 was 1,930 mg/L (October 2, 2006).

As per the *Annual Groundwater Monitoring Report* of April 25, 2005, Chevron proposed to continue groundwater monitoring the ten monitor wells until groundwater concentrations of chloride were below the NMWQCC standard for four consecutive quarters.

Monitor wells TW-10, TW-11, TW-13, TW-14, TW-17, TW-19 and TW-20 have shown chloride concentrations below the standard of 250 mg/L for the past three years. Chevron proposes that

these wells continue to be sampled for chloride and TDS on a semi-annual basis. TW-15 has exhibited chloride concentrations below 150 mg/L during 2006 and will remain on the quarterly sampling schedule. Monitor well TW-23 has exhibited lower chloride concentrations in 2006 than in past years, but, for the exception of one sampling event, the concentrations are at or above the state standard. Monitor well TW-9 has exhibited chloride concentrations around 50 mg/L for the last seven quarters.

FIGURES



N

NEW MEXICO

1 1/2 0 1

SCALE IN MILE

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BUCKEYE, NEW MEXICO; 1985

SECOR
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PHONE: (713) 937-7973

FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE VACUUM FIELD UNIT

LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

FIGURE: **1**

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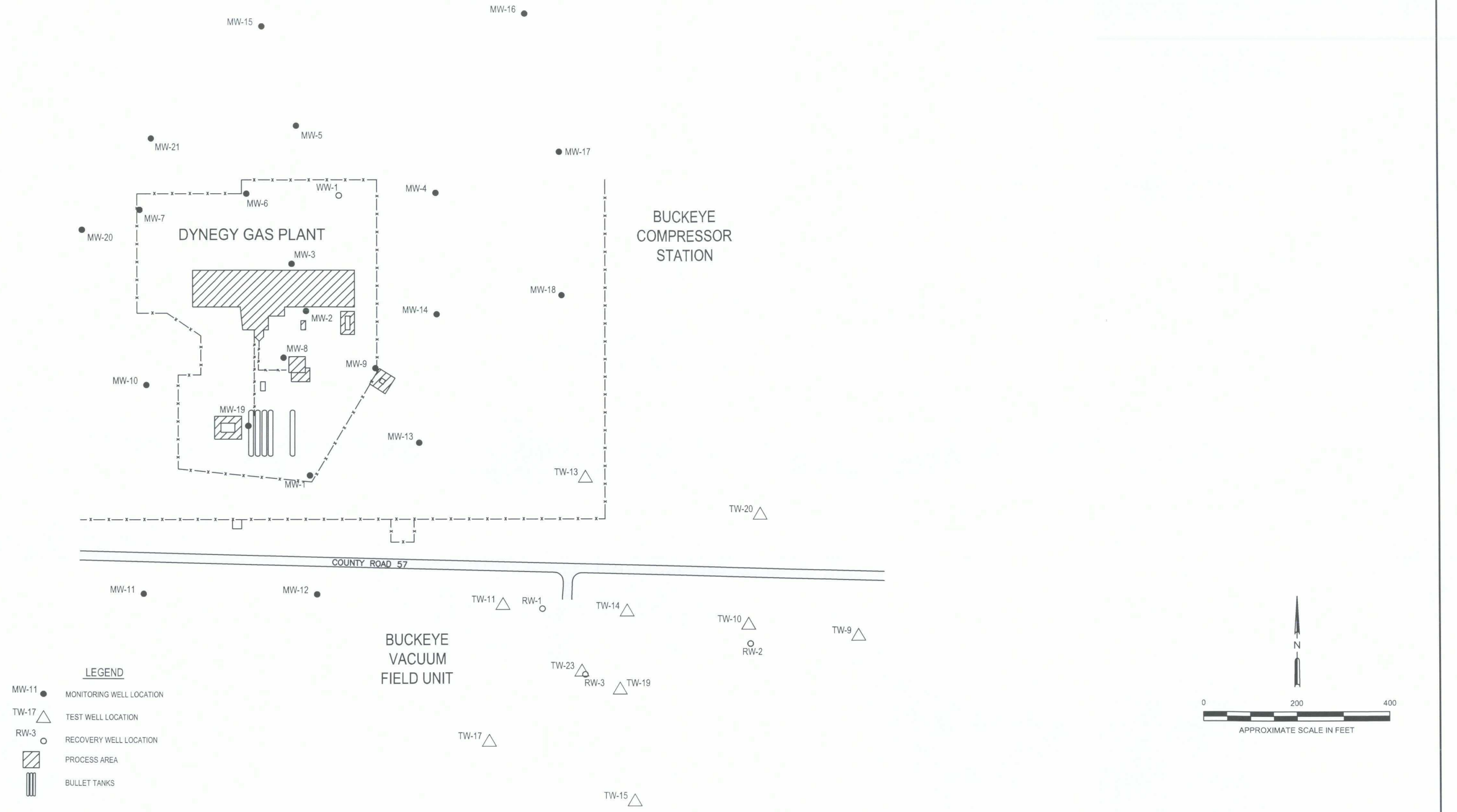

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FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

SITE PLAN

FIGURE: **2**

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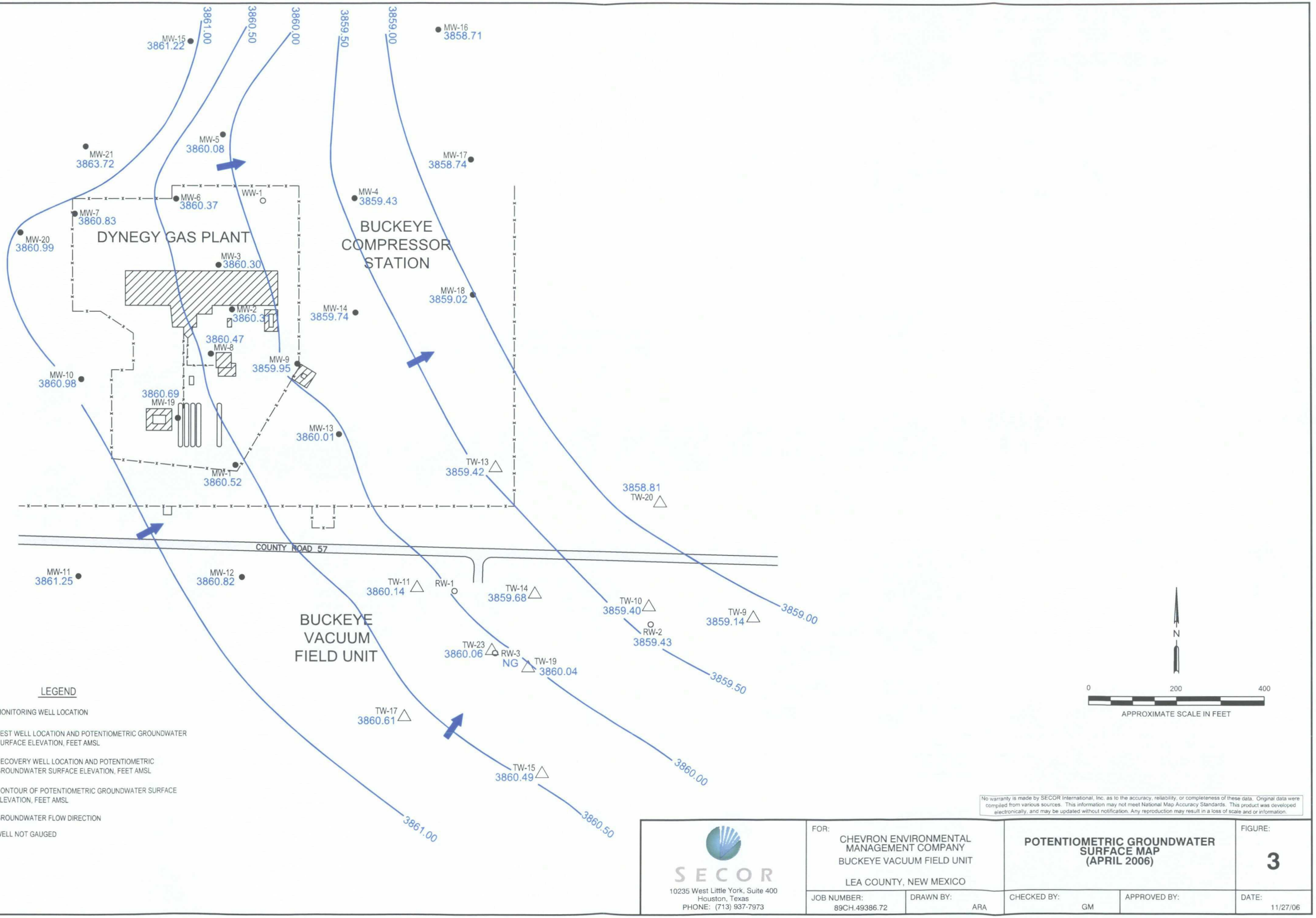

LEGEND

MW-11 ●	MONITORING WELL LOCATION
TW-17 △ 3861.12	TEST WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL
RW-3 ○ 3860.68	RECOVERY WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL
3861.0	CONTOUR OF POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL
←	GROUNDWATER FLOW DIRECTION
NG	WELL NOT GAUGED

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FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE VACUUM FIELD UNIT
LEA COUNTY, NEW MEXICO

POTENTIOMETRIC GROUNDWATER SURFACE MAP (APRIL 2006)

FIGURE: **3**

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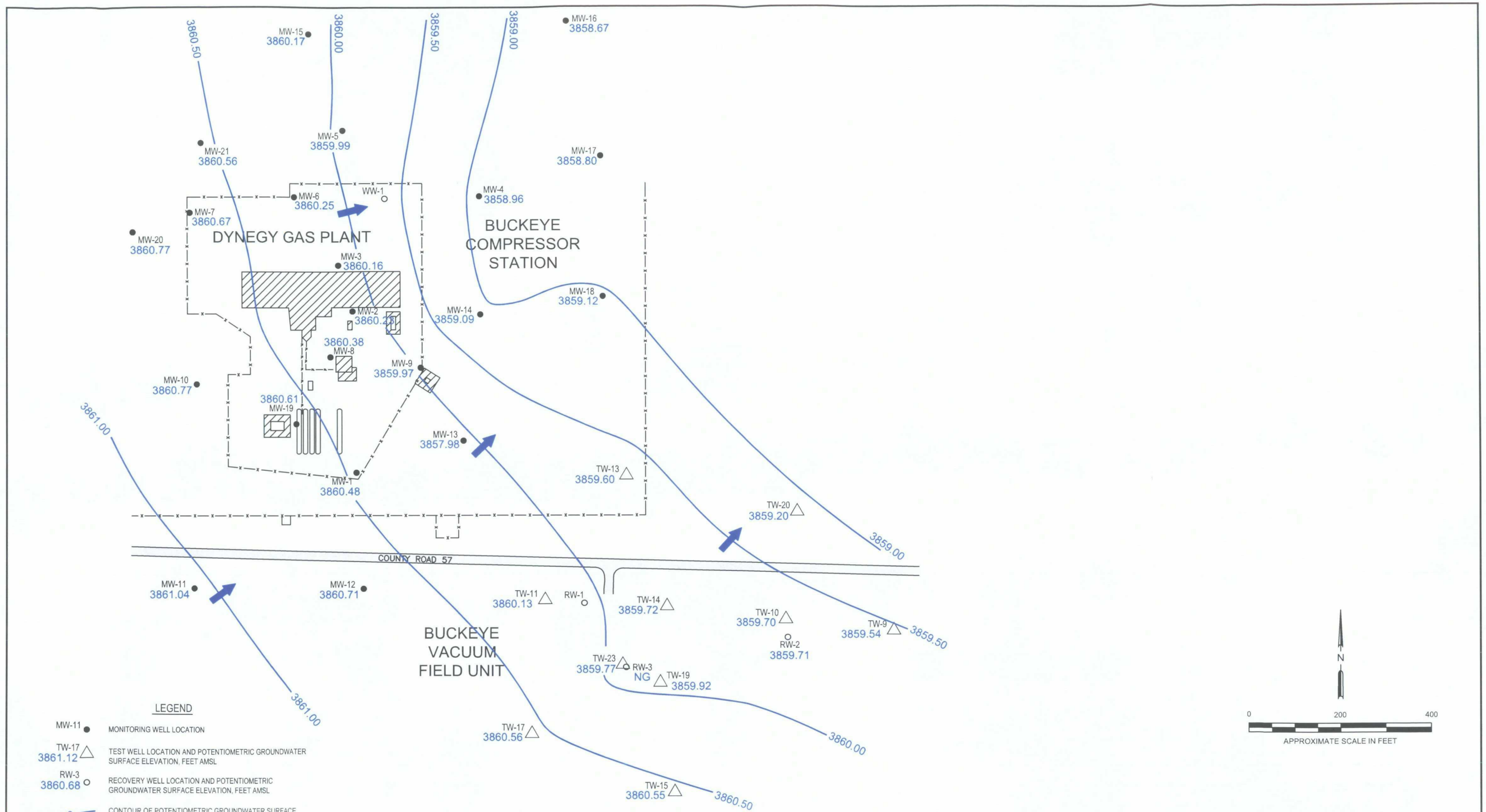

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FOR: CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE VACUUM FIELD UNIT
LEA COUNTY, NEW MEXICO

POTENTIOMETRIC GROUNDWATER SURFACE MAP (OCTOBER 2006)

FIGURE: **4**

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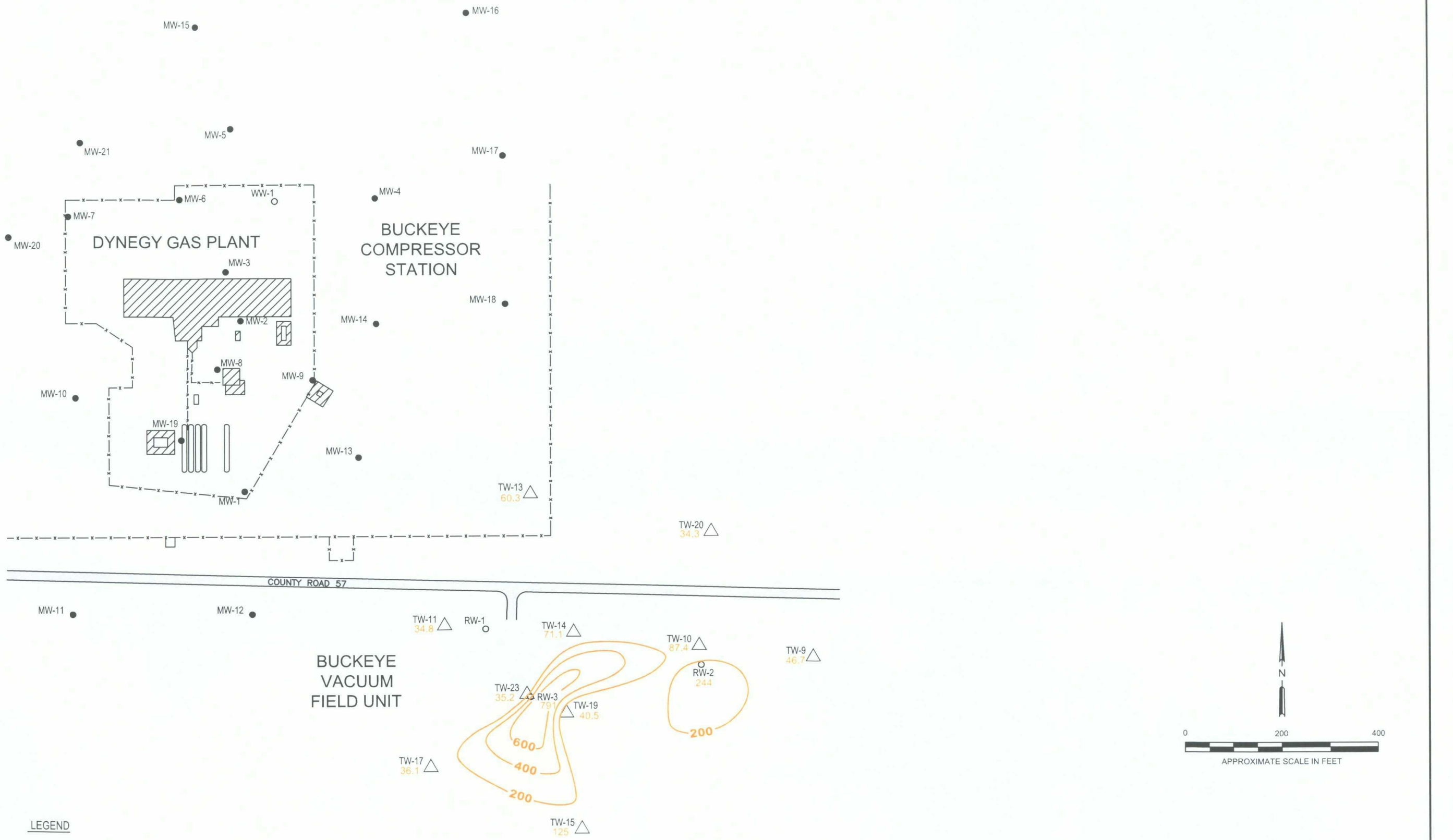

LEGEND

MW-11 ●	MONITORING WELL LOCATION
TW-17 178 △	TEST WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
RW-3 32.4 ○	RECOVERY WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
200 —	CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
mg/l	MILLIGRAMS PER LITER

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FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE VACUUM FIELD UNIT
LEA COUNTY, NEW MEXICO

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS IN GROUNDWATER (APRIL 2006)

FIGURE: 5

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
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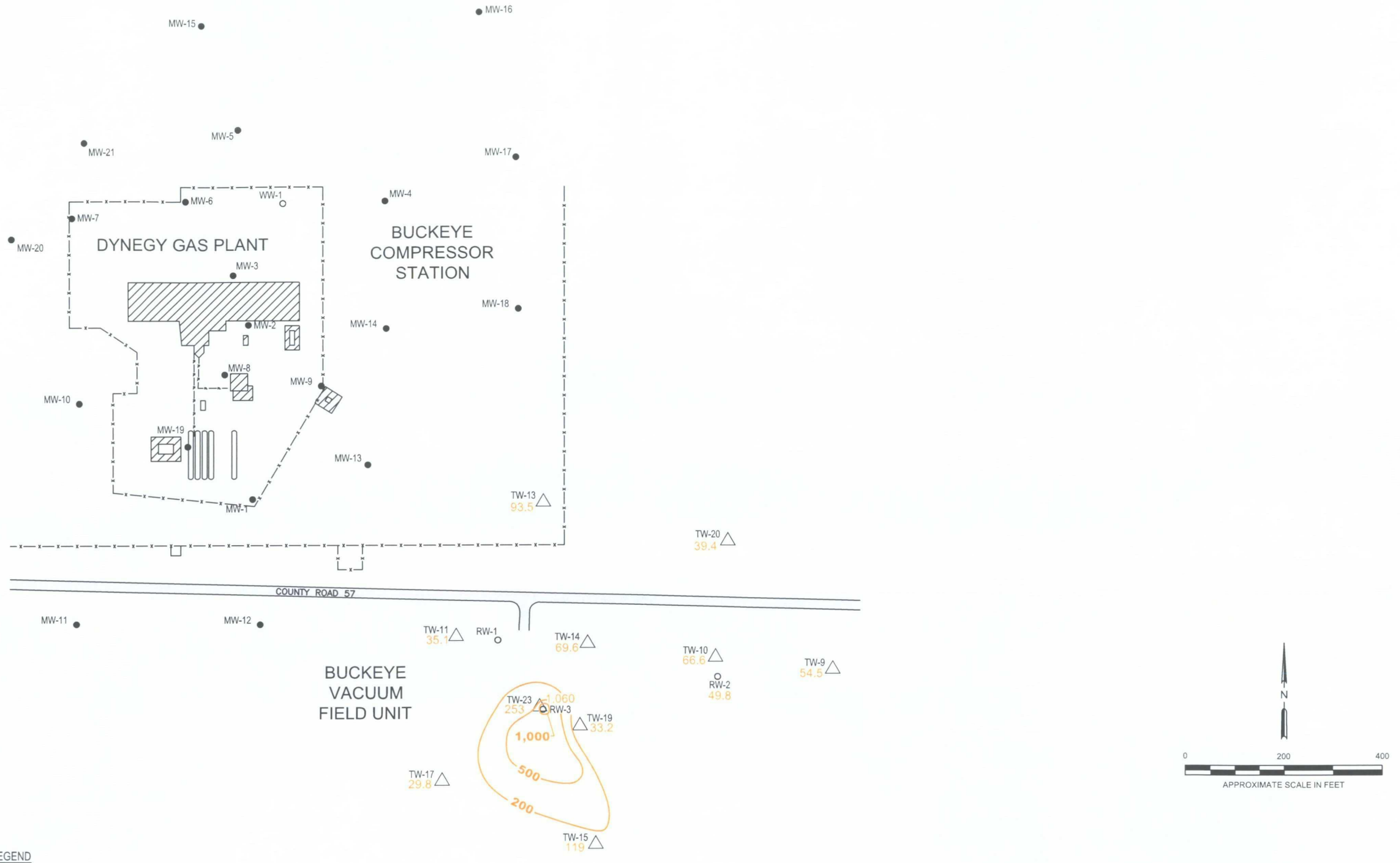

LEGEND

MW-11 ●	MONITORING WELL LOCATION
TW-17 178 △	TEST WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
RW-3 32.4 ○	RECOVERY WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
200 —	CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER, (mg/l)
mg/l	MILLIGRAMS PER LITER

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FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE VACUUM FIELD UNIT
LEA COUNTY, NEW MEXICO

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS IN GROUNDWATER (OCTOBER 2006)

FIGURE: **6**

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Figure 7
Historical Chloride Trend Chart
TW-23
Buckeye Vacuum Field Unit

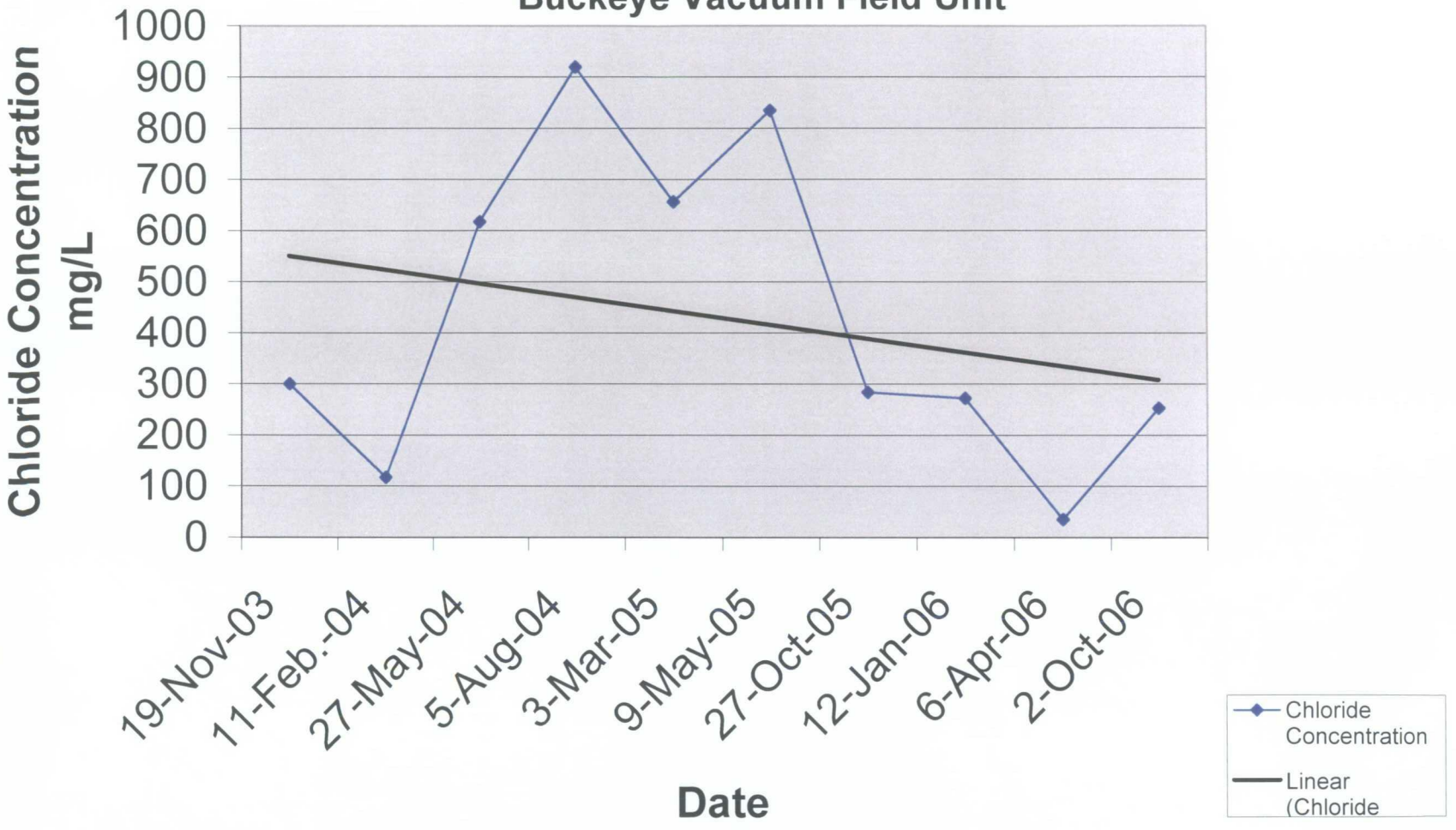


Figure 8
Historical Chloride Trend Chart
RW-2
Buckeye Vacuum Field Unit

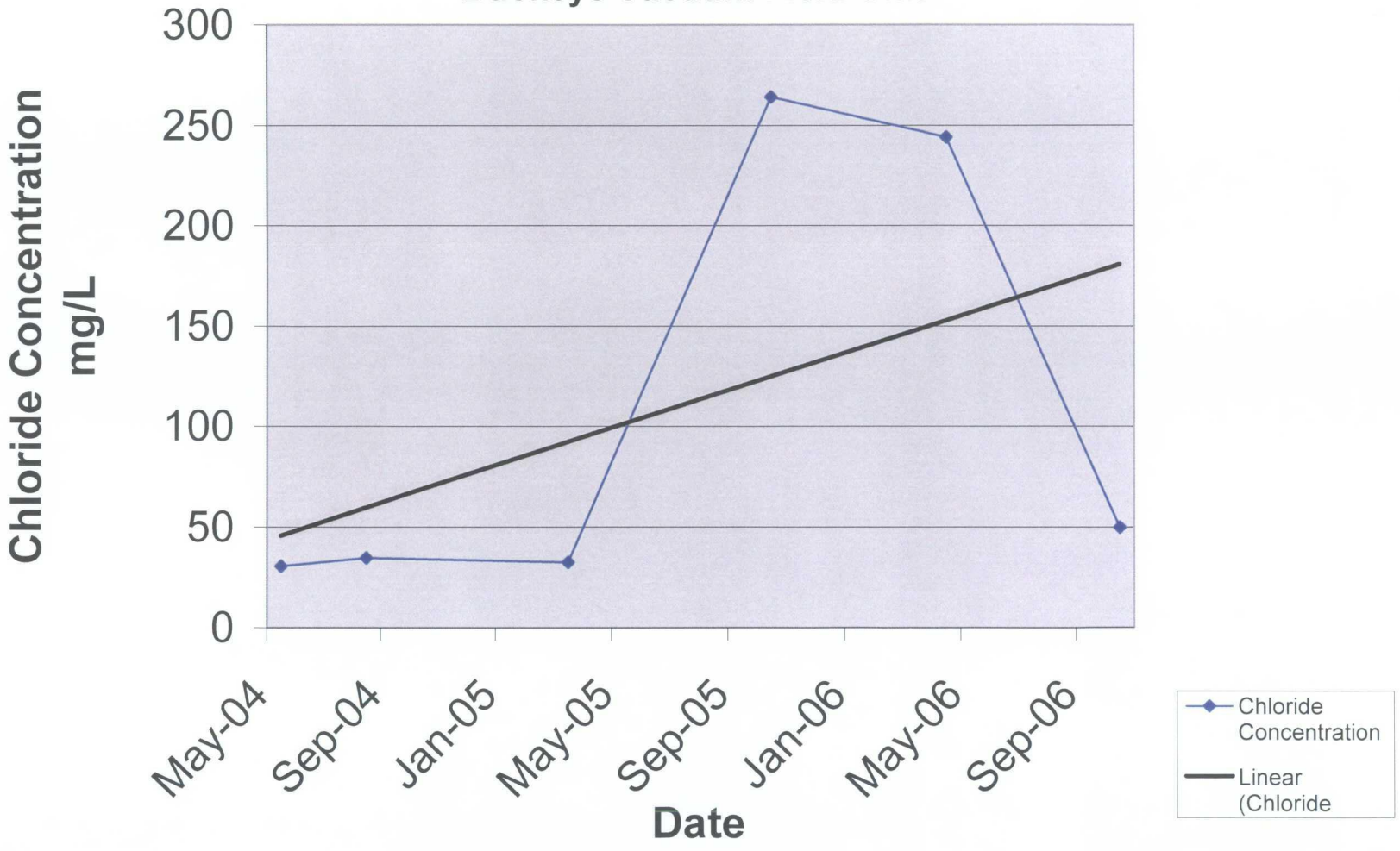
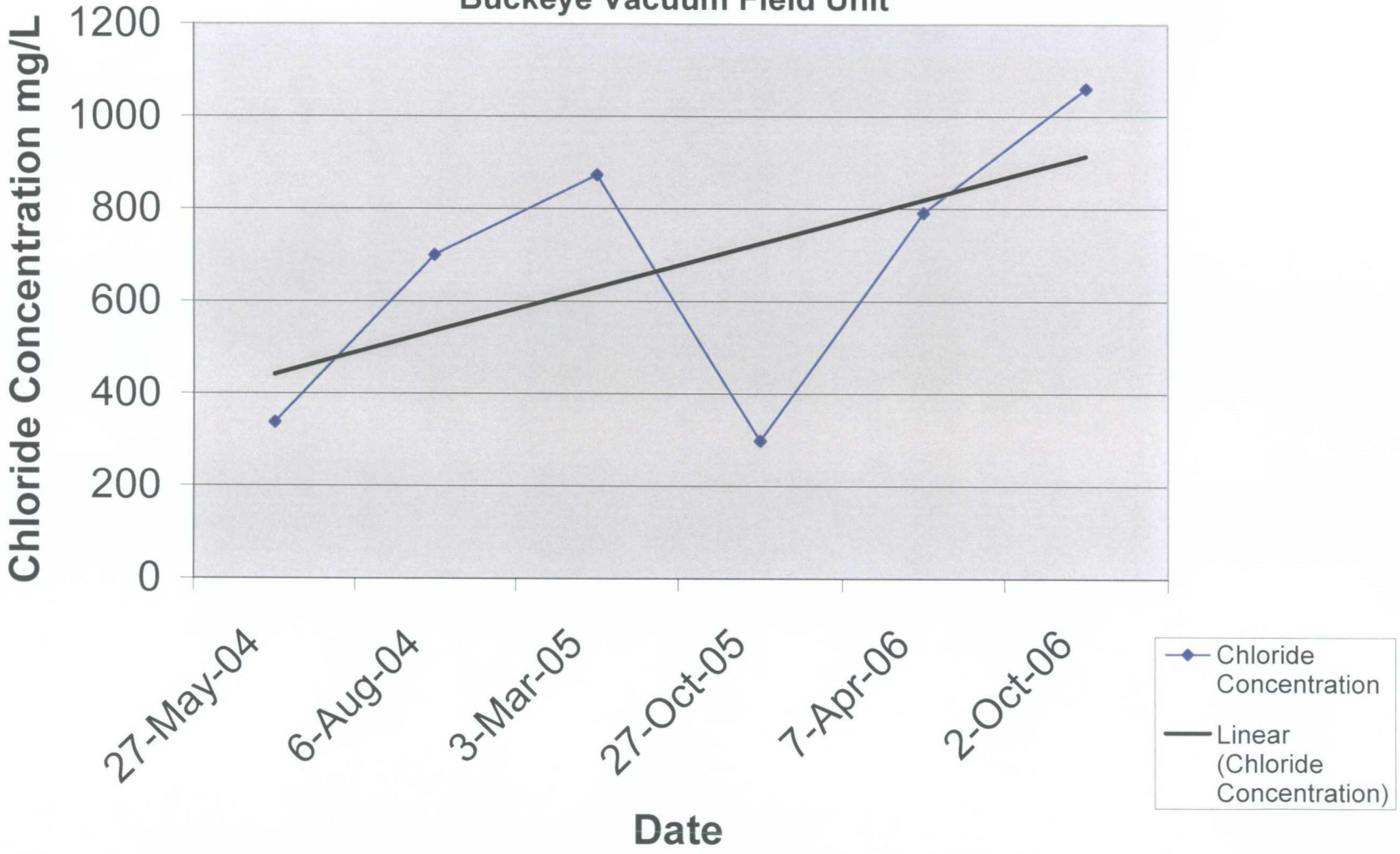


Figure 9
Historical Chloride Trend Chart
RW-3
Buckeye Vacuum Field Unit



TABLES

Table 1
Historical Groundwater Elevations
Buckeye Vacuum Field Unit
Lea County, NM

Monitoring Well ID	Date Gauged	TOC Elevation (ft.)	Depth To Water (ft.)	Water Elevation (ft.)
RW-2	05/15/03	3987.04		3987.04
	11/18/03	3987.04		3987.04
	02/11/04	3987.04		3987.04
	05/28/04	3987.04	126.82	3860.22
	08/06/04	3987.04	126.81	3860.23
	03/03/05	3987.04	126.90	3860.14
	05/09/05	3987.04	125.84	3861.20
	11/01/05	3987.04	NG	NG
	04/03/06	3987.04	127.61	3859.43
	10/03/06	3987.04	127.33	3859.71
RW-3	05/15/03	3984.18		3984.18
	11/18/03	3984.18		3984.18
	02/11/04	3984.18		3984.18
	05/27/04	3984.18	123.50	3860.68
	08/06/04	3984.18	123.58	3860.60
	03/03/05	3984.18	122.67	3861.51
	05/09/05	3984.18	122.54	3861.64
	11/01/05	3984.18	126.72	3857.46
	04/03/06	3984.18	NG	NG
	10/03/06	3984.18	NG	NG
TW-9	05/15/03	3988.69	129.01	3859.68
	11/18/03	3988.69	128.97	3859.72
	02/11/04	3988.69	128.62	3860.07
	05/27/04	3988.69	128.65	3860.04
	08/06/04	3988.69	128.64	3860.05
	03/03/05	3988.69	127.79	3860.90
	05/09/05	3988.69	128.67	3860.02
	11/01/05	3988.69	128.62	3860.07
	01/12/06	3988.69	129.05	3859.64
	04/03/06	3988.69	129.55	3859.14
	09/06/06	3988.69	129.20	3859.49
	10/03/06	3988.69	129.15	3859.54
TW-10	05/15/03	3987.87	127.99	3859.88
	11/19/03	3987.87	128.11	3859.76
	02/11/04	3987.87	127.69	3860.18
	05/28/04	3987.87	127.66	3860.21
	08/06/04	3987.87	127.69	3860.18
	03/03/05	3987.87	126.80	3861.07
	05/09/05	3987.87	126.68	3861.19
	11/01/05	3987.87	127.54	3860.33
	04/03/06	3987.87	128.47	3859.40
	10/03/06	3987.87	128.17	3859.70
TW-11	05/15/03	3989.11	128.97	3860.14
	11/19/03	3989.11	129.14	3859.97
	02/11/04	3989.11	128.67	3860.44
	05/28/04	3989.11	128.39	3860.72
	08/05/04	3989.11	128.42	3860.69
	03/03/05	3989.11	127.56	3861.55
	05/09/05	3989.11	127.41	3861.70
	11/01/05	3989.11	128.11	3861.00
	04/03/06	3989.11	128.97	3860.14
	10/03/06	3989.11	128.98	3860.13
TW-13	05/15/03	3988.73	128.85	3859.88
	11/18/03	3988.73	128.89	3859.84
	02/11/04	3988.73	128.67	3860.06
	05/27/04	3988.73	128.67	3860.06
	08/06/04	3988.73	128.66	3860.07
	03/03/05	3988.73	127.74	3860.99
	05/09/05	3988.73	127.68	3861.05
	11/01/05	3988.73	128.43	3860.30
	04/03/06	3988.73	129.31	3859.42
	10/03/06	3988.73	129.13	3859.60

Monitoring Well ID	Date Gauged	TOC Elevation (ft.)	Depth To Water (ft.)	Water Elevation (ft.)
TW-14	05/15/03	3986.77	126.78	3859.99
	11/19/03	3986.77	127.28	3859.49
	02/11/04	3986.77	127.32	3859.45
	05/28/04	3986.77	126.44	3860.33
	08/05/04	3986.77	126.48	3860.29
	03/03/05	3986.77	125.55	3861.22
	05/09/05	3986.77	125.43	3861.34
	11/01/05	3986.77	126.24	3860.53
	04/03/06	3986.77	127.09	3859.68
	10/03/06	3986.77	127.05	3859.72
TW-15	05/15/03	3984.14	123.50	3860.64
	11/19/03	3984.14	123.76	3860.38
	02/11/04	3984.14	123.34	3860.80
	05/27/04	3984.14	123.06	3861.08
	08/05/04	3984.14	123.07	3861.07
	03/03/05	3984.14	122.18	3861.96
	05/09/05	3984.14	122.13	3862.01
	11/01/05	3984.14	122.68	3861.46
	01/12/06	3984.14	123.33	3860.81
	04/03/06	3984.14	123.65	3860.49
	09/06/06	3984.14	123.61	3860.53
	10/03/06	3984.14	123.59	3860.55
TW-17	05/15/03	3986.01	122.87	3863.14
	11/19/03	3986.01	125.64	3860.37
	02/11/04	3986.01	125.15	3860.86
	05/28/04	3986.01	124.89	3861.12
	08/05/04	3986.01	124.88	3861.13
	03/03/05	3986.01	124.06	3861.95
	05/09/05	3986.01	123.97	3862.04
	11/01/05	3986.01	124.50	3861.51
	04/03/06	3986.01	125.40	3860.61
	10/03/06	3986.01	125.45	3860.56
TW-19	05/15/03	3985.70	121.80	3863.90
	11/19/03	3985.70	126.25	3859.45
	02/11/04	3985.70	125.31	3860.39
	05/27/04	3985.70	125.11	3860.59
	08/05/04	3985.70	125.14	3860.56
	03/03/05	3985.70	124.26	3861.44
	05/09/05	3985.70	124.02	3861.68
	11/01/05	3985.70	124.79	3860.91
	04/03/06	3985.70	125.66	3860.04
	10/02/06	3985.70	125.78	3859.92
TW-20	05/15/03	3988.40	129.07	3859.33
	11/18/03	3988.40	128.93	3859.47
	02/11/04	3988.40	128.69	3859.71
	05/27/04	3988.40	128.69	3859.71
	08/06/04	3988.40	128.67	3859.73
	03/03/05	3988.40	127.79	3860.61
	05/09/05	3988.40	127.69	3860.71
	11/01/05	3988.40	128.74	3859.66
	04/03/06	3988.40	129.59	3858.81
	10/03/06	3988.40	129.20	3859.20
TW-23	05/15/03	3984.58	124.42	3860.16
	11/19/03	3984.58	125.95	3858.63
	02/11/04	3984.58	124.16	3860.42
	05/27/04	3984.58	123.94	3860.64
	08/05/04	3984.58	124.03	3860.55
	03/03/05	3984.58	123.10	3861.48
	05/09/05	3984.58	122.98	3861.60
	11/01/05	3984.58	123.71	3860.87
	01/12/06	3984.58	124.06	3860.52
	04/03/06	3984.58	124.52	3860.06
	09/06/06	3984.58	124.52	3860.06
	10/02/06	3984.58	124.81	3859.77

Note:
TOC - Top of casing
NG - Not gauged
Elevations are from mean sea level

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC
TW-9	18-Oct-05	128.38
	27-Oct-05	---
	1-Nov-05	128.62
	29-Nov-05	129.24
	14-Dec-05	129.25
	5-Jan-06	129.41
	12-Jan-06	129.03
	25-Jan-06	129.30
	23-Feb-06	129.31
	8-Mar-06	129.32
	20-Mar-06	129.45
	19-Apr-06	129.54
	8-May-06	129.51
	7-Jun-06	129.88
	19-Jun-06	129.49
	11-Jul-06	129.27
	8-Aug-06	129.24
TW-10	18-Oct-05	127.33
	27-Oct-05	---
	1-Nov-05	127.54
	29-Nov-05	128.09
	14-Dec-05	128.12
	5-Jan-06	128.23
	12-Jan-06	127.94
	25-Jan-26	128.15
	23-Feb-06	128.23
	8-Mar-06	128.29
	20-Mar-06	128.31
	19-Apr-06	128.43
	8-May-06	128.38
	7-Jun-09	128.63
	19-Jun-06	128.44
	11-Jul-06	128.28
	8-Aug-06	128.23

Note: -- Not gauged

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC
TW-11	18-Oct-05	127.98
	27-Oct-05	---
	1-Nov-05	128.11
	29-Nov-05	128.57
	14-Dec-05	128.63
	5-Jan-06	128.93
	12-Jan-06	128.49
	25-Jan-06	128.67
	23-Feb-06	128.81
	8-Mar-06	128.90
	20-Mar-06	128.82
	19-Apr-06	129.03
	8-May-06	128.85
	7-Jun-06	129.20
	19-Jun-06	129.05
	11-Jul-06	129.04
	8-Aug-06	129.00
TW-13	18-Oct-05	128.26
	26-Oct-05	---
	1-Nov-05	128.43
	29-Nov-05	128.90
	14-Dec-05	128.95
	5-Jan-06	129.18
	12-Jan-06	128.88
	25-Jan-06	129.01
	23-Feb-06	129.11
	8-Mar-06	129.08
	20-Mar-06	129.14
	19-Apr-06	129.33
	8-May-06	129.21
	7-Jun-06	129.47
	19-Jun-06	129.33
	11-Jul-06	129.21
	8-Aug-06	129.17

Note: -- Not gauged

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC
TW-14	18-Oct-05	126.03
	27-Oct-05	--
	1-Nov-05	126.24
	29-Nov-05	126.68
	14-Dec-05	126.74
	5-Jan-06	127.03
	12-Jan-06	126.58
	25-Jan-06	126.75
	23-Feb-06	126.83
	8-Mar-06	127.08
	20-Mar-06	126.91
	19-Apr-06	127.10
	8-May-06	126.94
	7-Jun-06	127.33
	19-Jun-06	127.11
	11-Jul-06	127.06
	8-Aug-06	127.01
TW-15	18-Oct-05	122.61
	27-Oct-05	--
	1-Nov-05	122.68
	29-Nov-05	123.17
	14-Dec-05	123.22
	5-Jan-06	123.48
	12-Jan-06	123.33
	25-Jan-06	123.35
	23-Feb-06	123.46
	8-Mar-06	123.47
	20-Mar-06	123.50
	19-Apr-06	123.69
	8-May-06	123.59
	7-Jun-06	123.84
	19-Jun-06	123.73
	11-Jul-06	123.69
	8-Aug-06	123.62

Note: -- Not gauged

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC
TW-17	18-Oct-05	124.43
	26-Oct-05	--
	1-Nov-05	124.50
	29-Nov-05	124.93
	14-Dec-05	124.98
	5-Jan-06	125.30
	12-Jan-06	124.98
	25-Jan-06	125.11
	23-Feb-06	125.21
	8-Mar-06	125.23
	20-Mar-06	125.22
	19-Apr-06	125.45
	8-May-06	125.34
	7-Jun-06	125.60
	19-Jun-06	125.44
	11-Jul-06	125.47
	8-Aug-06	125.39
tw-19	18-Oct-05	124.66
	27-Oct-05	--
	1-Nov-05	124.79
	29-Nov-05	125.27
	14-Dec-05	125.31
	5-Jan-06	125.62
	12-Jan-06	125.20
	25-Jan-06	125.32
	23-Feb-06	125.44
	8-Mar-06	125.68
	20-Mar-06	125.50
	19-Apr-06	125.72
	8-May-06	125.55
	7-Jun-06	125.98
	19-Jun-06	125.76
	11-Jul-06	125.78
	8-Aug-06	125.72

Note: -- Not gauged

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC
TW-20	18-Oct-05	128.43
	26-Oct-05	--
	1-Nov-05	128.74
	29-Nov-05	129.28
	14-Dec-05	129.24
	5-Jan-06	129.44
	12-Jan-06	129.00
	25-Jan-06	129.28
	23-Feb-06	129.35
	8-Mar-06	129.35
	20-Mar-06	129.49
	19-Apr-06	129.59
	8-May-06	129.51
	7-Jun-06	129.83
	19-Jun-06	129.50
	11-Jul-06	129.31
	8-Aug-06	129.28
TW-23	18-Oct-05	123.53
	27-Oct-05	--
	1-Nov-05	123.71
	29-Nov-05	124.13
	14-Dec-05	124.18
	12-Jan-06	124.06
	25-Jan-06	124.19
	23-Feb-06	124.32
	8-Mar-06	124.85
	20-Mar-06	124.35
	19-Apr-06	124.53
	8-May-06	124.43
	7-Jun-06	124.91
	19-Jun-06	124.64
	11-Jul-06	124.76
	8-Aug-06	124.69

Note: -- Not gauged

Table 2
Depth to Groundwater and Barrels Pumped (RW-3)
October 2005 - August 2006
Buckeye Vaccum Field Unit
Lea Country, NM

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Cumulative BBIs Pumped from RW-3
RW-1	15-May-03	126.65	
	23-Jun-03	126.56	
	02-Jul-03	127.10	
	11-Jul-03	5.68	
	08-Aug-03	--	
	26-Aug-03	--	
	1-Nov-05	no access	
RW-2	27-Oct-05	--	
	1-Nov-05	no access	
	29-Nov-05	127.25	
	14-Dec-05	127.26	
	5-Jan-06	--	
	12-Jan-06	127.08	
	25-Jan-06	127.29	
	23-Feb-06	127.39	
	8-Mar-06	127.42	
	20-Mar-06	127.50	
	19-Apr-06	127.61	
	8-May-06	127.54	
	7-Jun-06	127.81	
	19-Jun-06	127.56	
	11-Jul-06	127.42	
	8-Aug-06	127.39	
RW-3	18-Oct-05		
	27-Oct-05	--	
	1-Nov-05	126.72	2636.7
	29-Nov-05	--	7695.4
	14-Dec-05	--	9441.35
	5-Jan-06	--	13135.51
	12-Jan-06	--	14342.68
	25-Jan-06	123.78	
	23-Feb-06	123.94	
	8-Mar-06	124.33	
	20-Mar-06	124.01	
	19-Apr-06	124.16	
	8-May-06	124.05	
	7-Jun-06	124.58	17771.11
	19-Jun-06	124.21	19258.54
	11-Jul-06	124.31	21550.77
	8-Aug-06	124.26	24941.15

Note: -- Not gauged

Table 3
Summary of Chloride and Total Dissoved Solids Analytical Results
Buckeye Vacuum Field Unit
Lea County, NM

New Mexico Water Quality Control (MNWQC) Remediation Standards (mg/L)		250	1,000
Monitoring Well ID	**Sample Date**	**Chloride (mg/L) (EPA 300.0)**	**TDS (mg/L) (EPA 160.1)**
TW-9	15-May-03	120	--
	18-Nov-03	**442**	892
	11-Feb.-04	**420**	972
	27-May-04	88.2	461
	6-Aug-04	49.0	385
	03-Mar-05	44.5	239
	9-May-05	53.7	378
	27-Oct-05	89.9	431
	12-Jan-06	49.6	325
	5-Apr-06	46.7	321
	2-Oct-06	54.5	319
TW-10	15-May-03	44.3	--
	19-Nov-03	59.1	369
	11-Feb.-04	52.9	372
	28-May-04	39.9	344
	6-Aug-04	45.4	354
	03-Mar-05	33.0	226
	27-Oct-05	71.0	372
	5-Apr-06	87.4	406
	3-Oct-06	66.6	375
TW-11	15-May-03	35.4	--
	19-Nov-03	25.3	307
	11-Feb.-04	83.8	610
	28-May-04	27.0	274
	5-Aug-04	30.1	269
	03-Mar-05	28.4	174
	27-Oct-05	31.8	260
	5-Apr-06	34.8	269
	3-Oct-06	35.1	265
TW-13	15-May-03	39.0	--
	18-Nov-03	64.3	560
	11-Feb.-04	83.8	610
	27-May-04	84.5	625
	6-Aug-04	74.8	596
	03-Mar-05	90.0	502
	26-Oct-05	75.1	485
	6-Apr-06	60.3	429
	3-Oct-06	93.5	546

Notes:
TDS - Total dissolved solids
mg/L - milligrams per liter
BOLD - Exceeds NMWQC Standards

Table 3
Summary of Chloride and Total Dissoved Solids Analytical Results
Buckeye Vacuum Field Unit
Lea County, NM

Monitoring Well ID	Sample Date	Chloride (mg/L) (EPA 300.0)	TDS (mg/L) (EPA 160.1)
TW-14	15-May-03	65.0	--
	19-Nov-03	25.4	368
	11-Feb.-04	29.6	339
	28-May-04	30.3	346
	5-Aug-04	32.7	347
	03-Mar-05	87.9	340
	27-Oct-05	73.9	419
	5-Apr-06	71.1	421
	3-Oct-06	69.6	424
TW-15	15-May-03	88.6	--
	19-Nov-03	**561**	**1132**
	11-Feb.-04	**419**	908
	27-May-04	93.4	439
	5-Aug-04	102	545
	3-Mar-05	189	577
	9-May-05	184	711
	27-Oct-05	155	569
	12-Jan-06	144	486
	5-Apr-06	125	557
	2-Oct-06	119	503
TW-17	15-May-03	31.9	--
	19-Nov-03	26.7	295
	11-Feb.-04	24.9	294
	28-May-04	26.7	302
	5-Aug-04	29.4	306
	03-Mar-05	178	565
	26-Oct-05	59.9	362
	5-Apr-06	36.1	294
	3-Oct-06	29.8	296
TW-19	15-May-03	35.4	--
	19-Nov-03	28.3	325
	11-Feb.-04	23.7	387
	27-May-04	33.6	287
	5-Aug-04	42.8	344
	03-Mar-05	54.2	224
	27-Oct-05	39.0	293
	6-Apr-06	40.5	308
	2-Oct-06	33.2	290

Notes:
TDS - Total dissolved solids
mg/L - milligrams per liter
BOLD - Exceeds NMWQC Standards

Table 3
Summary of Chloride and Total Dissoved Solids Analytical Results
Buckeye Vacuum Field Unit
Lea County, NM

Monitoring Well ID	Sample Date	Chloride (mg/L) (EPA 300.0)	TDS (mg/L) (EPA 160.1)
TW-20	15-May-03	35.4	--
	18-Nov-03	26.5	328
	11-Feb.-04	25.2	353
	27-May-04	27.1	316
	6-Aug-04	31.8	338
	3-Mar-05	25.3	232
	26-Oct-05	53.7	351
	6-Apr-06	34.3	329
	3-Oct-06	39.4	310
TW-23	15-May-03	**1440**	--
	19-Nov-03	**300**	964
	11-Feb.-04	117	603
	27-May-04	**617**	**1,710**
	5-Aug-04	**919**	**2,000**
	3-Mar-05	**656**	**1,680**
	9-May-05	**835**	**2,680**
	27-Oct-05	**284**	**1,460**
	12-Jan-06	**272**	**1,090**
	6-Apr-06	35.2	**1,070**
	2-Oct-06	**253**	**1,070**
RW-2	28-May-04	30.4	306
	6-Aug-04	34.6	354
	3-Mar-05	32.4	244
	27-Oct-05	**264**	600
	7-Apr-06	244	767
	3-Oct-06	49.8	325
RW-3	15-May-03	--	--
	27-May-04	**338**	854
	6-Aug-04	**700**	**1,620**
	3-Mar-05	**873**	**1,710**
	27-Oct-05	**298**	844
	7-Apr-06	**791**	**1,700**
	2-Oct-06	**1,060**	**1,930**

Notes:
TDS - Total dissolved solids
mg/L - milligrams per liter
BOLD - Exceeds NMWQC Standards

APPENDICIES

Laboratory Analytical Data January 14, 2006
Laboratory Analytical Data April 8, 2006
Laboratory Analytical Data October 5, 2006

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

713-937-7973

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 974425. Samples arrived at the laboratory on Saturday, January 14, 2006. The PO# for this group is UWPER-A5002-001 and the release number is BUCKEYE-SA.

Client Description	Lancaster Labs Number
TW-9 Grab Water Sample	4688739
TW-15 Grab Water Sample	4688740
TW-23 Grab Water Sample	4688741

ELECTRONIC COPY TO SECOR International, Inc. Attn: Ronnie Kallus

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4688739

TW-9 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 01/12/2006 14:55 by RP

Account Number: 11842

Submitted: 01/14/2006 10:30
Reported: 01/26/2006 at 15:23
Discard: 02/26/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	325.	9.7	mg/l	1
00224	Chloride	16887-00-6	49.6	6.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2006 11:15	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	01/24/2006 16:08	William L Hamaker Jr	20

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4688740

TW-15 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:01/12/2006 13:55 by RP

Account Number: 11842

Submitted: 01/14/2006 10:30
Reported: 01/26/2006 at 15:23
Discard: 02/26/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	486.	9.7	mg/l	1
00224	Chloride	16887-00-6	144.	15.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2006 11:15	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	01/25/2006 21:03	William L Hamaker Jr	50

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4688741

TW-23 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 01/12/2006 16:05 by RP

Account Number: 11842

Submitted: 01/14/2006 10:30
Reported: 01/26/2006 at 15:23
Discard: 02/26/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,090.	38.8	mg/l	1
00224	Chloride	16887-00-6	272.	30.0	mg/l	100

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2006 11:15	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	01/25/2006 21:17	William L Hamaker Jr	100

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: SECOR International, Inc. Group Number: 974425
Reported: 01/26/06 at 03:23 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06018021201A	Sample number(s): 4688739-4688741							
Total Dissolved Solids	N.D.	9.7	mg/l	99		80-120		
Batch number: 06024621101B	Sample number(s): 4688739-4688741							
Chloride	N.D.	0.30	mg/l	95		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06018021201A	Sample number(s): 4688739-4688741 UNSPK: P689763 BKG: P689763								
Total Dissolved Solids	101	94	60-140	3	5	285.	272.	5	5
Batch number: 06024621101B	Sample number(s): 4688739-4688741 UNSPK: P690797 BKG: P690797								
Chloride	112*		90-110			623.	700.	12*	3

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 11842 Group# 974475 Sample # 4688739-41

COC # 0108170

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: SECOR Acct. #:
Project Name/#: Buckeye Vacuum PWSID #:
Project Manager: Ronnie Kallus P.O.#:
Sampler: Rob Pierson Quote #:
Name of state where samples were collected: NM

For Lab Use Only (6)
FSC:
SCR #: 228417

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Water	Other	Total # of Containers	(5) Analyses Requested: Chlorides	TDS							Remarks
TW-9	1/12/06	1455	X			X		1	X	X							
TW-15	1/12/06	1355	X			X		1	X	X							
TW-23	1/12/06	1605	X			X		1	X	X							

(7) **Turnaround Time Requested** (TAT) (please circle): Normal (circled) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 713-937-7973 Fax #: 713-983-8328
E-mail address: rkallus@secor.com

(8) **Data Package Options** (please circle if required)

		SDG Complete?
QC Summary	Type VI (Raw Data)	Yes No
Type I (Tier I)	GLP	Site-specific QC required? Yes No
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)
Type III (NJ Red. Del.)		Internal Chain of Custody required? Yes No
Type IV (CLP)		

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/12/06	0905	[signature]	1/12/06	
[signature]	1/13/06	1745			
			[signature]	1/14/06	1020

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2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estIP ated value – The Lesult Is ≥ the Method a etection Limit (Ma L) and < the Limit of Quantitation (LI Q).

ppm parts per million - I ne ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis *Results printed under this heading have been adjusted for moisture content. This increases the analyte weight* concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by d C/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	a efined in case narrative

Inorganic Qualifiers

B	s alue is <CRa L, but ≥Ia L
E	Estimated due to interference
M	a uplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	a uplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' aFFUedItatIRQ sFRSe P eet all LeTuIILeP eQts RI N(/ AC uQess otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. t e cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. Te E FI REd I INd EuPRESS t ARRANTv IS EuCLUSIs E ANa IS d Is EN IN LIEU I F ALL I Te ER t ARRANTIES, EuPRESSEa I R IMPLIEa. t E a ISCLAIM ANv I Te ER t ARRANTIES, EuPRESSEa I R IMPLIEa, INCLUa INd A t ARRANTv I F FITNESS FI R PARTICULAR PURPI SE ANa t ARRANTv I F MERCe ANTABILITv. IN NI Es ENT Se ALL LANCASTER LABI RATI RIES BE LIABLE FI R INa IRECT, SPECIAL, CI NSEQUENTIAL, I R INCIa ENTAL a AMAd ES INCLUa INd, BUT NI T LIMITEa TI , a AMAd ES FI R LI SS I F PRI FIT I R d I I at ILL REd ARa LESS I F (A) Te E NEd LId ENCE (EITe ER SI LE I R CI NCURRENT) I F LANCASTER LABI RATI RIES ANa (B) t e ETe ER LANCASTER LABI RATI RIES e AS BEEN INFI RMEa I F Te E PI SSIBILITv I F SUCe a AMAd ES. t e accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of *Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.*

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

713-937-7973

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 984959. Samples arrived at the laboratory on Saturday, April 08, 2006. The PO# for this group is 89CH.49386.72 and the release number is BUCKEYE-SA.

Client Description	Lancaster Labs Number
TW-9 Grab Water Sample	4746854
TW-10 Grab Water Sample	4746855
TW-11 Grab Water Sample	4746856
TW-14 Grab Water Sample	4746857
TW-15 Grab Water Sample	4746858
TW-17 Grab Water Sample	4746859
TW-13 Grab Water Sample	4746860
TW-20 Grab Water Sample	4746861
TW-19 Grab Water Sample	4746862
TW-23 Grab Water Sample	4746863
RW-2 Grab Water Sample	4746864
RW-3 Grab Water Sample	4746865
DUP-1 Grab Water Sample	4746866

ELECTRONIC COPY TO SECOR International, Inc. Attn: Ronnie Kallus

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Analysis Report

Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4746854

TW-9 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/05/2006 15:40 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	321.	9.7	mg/l	1
00224	Chloride	16887-00-6	46.7	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 15:36	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746855

TW-10 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/05/2006 15:00 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	406.	9.7	mg/l	1
00224	Chloride	16887-00-6	87.4	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 16:25	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746856

TW-11 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:04/05/2006 12:17 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	269.	9.7	mg/l	1
00224	Chloride	16887-00-6	34.8	2.0	mg/l	10

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/24/2006 21:50	Shannon L Phillips	10

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Analysis Report

Lancaster Laboratories Sample No. WW 4746857

TW-14 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/05/2006 14:20 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	421.	9.7	mg/l	1
00224	Chloride	16887-00-6	71.1	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 16:58	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746858

TW-15 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:04/05/2006 11:00 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	557.	9.7	mg/l	1
00224	Chloride	16887-00-6	125.	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 17:14	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746859

TW-17 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/05/2006 11:40 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	294.	9.7	mg/l	1
00224	Chloride	16887-00-6	36.1	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 17:31	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746860

TW-13 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:04/06/2006 11:25 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	429.	9.7	mg/l	1
00224	Chloride	16887-00-6	60.3	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 17:47	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746861

TW-20 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/06/2006 12:08 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	329.	9.7	mg/l	1
00224	Chloride	16887-00-6	34.3	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 18:04	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746862

TW-19 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/06/2006 14:10 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	308.	9.7	mg/l	1
00224	Chloride	16887-00-6	40.5	4.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/25/2006 23:59	William L Hamaker Jr	20

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Analysis Report

Lancaster Laboratories Sample No. WW 4746863

TW-23 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/06/2006 14:40 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,070.	38.8	mg/l	1
00224	Chloride	16887-00-6	35.2	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 18:53	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746864

RW-2 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:04/07/2006 14:20 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	767.	19.4	mg/l	1
00224	Chloride	16887-00-6	244.	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/21/2006 19:09	William L Hamaker Jr	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4746865

RW-3 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: 04/07/2006 12:40 by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,700.	77.6	mg/l	1
00224	Chloride	16887-00-6	791.	40.0	mg/l	200

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/27/2006 01:30	Shannon L Phillips	200

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Analysis Report

Lancaster Laboratories Sample No. WW 4746866

DUP-1 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: n.a. by WBD

Account Number: 11842

Submitted: 04/08/2006 10:15
Reported: 04/27/2006 at 16:59
Discard: 05/28/2006

SECOR International, Inc.
10235 West Little York Road
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	312.	9.7	mg/l	1
00224	Chloride	16887-00-6	37.6	4.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	04/10/2006 12:33	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	04/26/2006 00:31	William L Hamaker Jr	20

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: SECOR International, Inc. Group Number: 984959
Reported: 04/27/06 at 04:59 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06100021202A	Sample number(s): 4746854-4746866							
Total Dissolved Solids	N.D.	9.7	mg/l	96		80-120		
Batch number: 06111621101A	Sample number(s): 4746856							
Chloride	N.D.	0.20	mg/l	92		90-110		
Batch number: 06111621101B	Sample number(s): 4746854-4746855,4746857-4746861,4746863-4746864							
Chloride	N.D.	0.20	mg/l	92		90-110		
Batch number: 06115621101B	Sample number(s): 4746862,4746865-4746866							
Chloride	N.D.	0.20	mg/l	98		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06100021202A	Sample number(s): 4746854-4746866 UNSPK: P746402 BKG: P746402								
Total Dissolved Solids	102	102	60-140	0	5	1,260.	1,240.	1	5
Batch number: 06111621101A	Sample number(s): 4746856 UNSPK: P755016 BKG: P755016								
Chloride	97		90-110			355.	342.	4*	3
Batch number: 06111621101B	Sample number(s): 4746854-4746855,4746857-4746861,4746863-4746864 UNSPK: 4746854 BKG: 4746854								
Chloride	158*		90-110			46.7	45.2	3 (1)	3
Batch number: 06115621101B	Sample number(s): 4746862,4746865-4746866 UNSPK: P751367 BKG: P751367								
Chloride	107		90-110			23.9	23.9	0	3

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

Acct. # 11842 Group# 984959 Sample # 4746854-66 (For Lancaster Laboratories use only)

COC # 0118255

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Secor Acct. #:
Project Name/#: Buckeye Vacuum PWSID #:
Project Manager: Ronnie Kallus P.O.#:
Sampler: WBDE Quote #:
Name of state where samples were collected: New Mexico

For Lab Use Only
FSC:
SCR #:

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Soil	(4) Water	Other	Total # of Containers	(5) TDS	CL-(300.0)							Remarks (6)
TW-9	4-5-6	1540	✓			✓		1	X	X							
TW-10	↓	1500	↓			↓		↓	↓	↓							
TW-11	↓	1217	↓			↓		↓	↓	↓							
TW-14	↓	1420	↓			↓		↓	↓	↓							
TW-15	↓	1100	↓			↓		↓	↓	↓							
TW-17	↓	1140	↓			↓		↓	↓	↓							
TW-13	4-6-6	1125	↓			↓		↓	↓	↓							
TW-20	4-6-6	1208	↓			↓		↓	↓	↓							
TW-19	4-6-6	1410	↓			↓		↓	↓	↓							
TW-23	4-6-6	1440	↓			↓		↓	↓	↓							

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4-7-6	1830			
			[signature]	4/1/06	1015

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2102.02

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 11842 Group# 984959 Sample # 4746854-66

COC # 0118256

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: SECOR Acct. #:
Project Name/#: Buckeye Vacuum PWSID #:
Project Manager: Ronnie Kallus P.O.#:
Sampler: WBDE Quote #:
Name of state where samples were collected: New Mexico

For Lab Use Only
FSC:
SCR #:

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Soil	(4) Water	Other	Total # of Containers	(5) TDS	CL-(300.0)							Remarks (6)
RW-2	4-7-6	1420	✓			✓		1	✓	✓							
RW-3	4-7-6	1240	✓			✓		1	✓	✓							
Dup-1			✓			✓		1	✓	✓							

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
Bill [signature]	4-7-6	1830			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	4/8/06	1015

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Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less thaQ– The QuP beUlollowlQg the slgQ ls the llP lt ol TuaQttatloQ the sP allest aP ouQt ol aQalyte whlFh FaQ be reliably determined using this specific test.

> greater than

ppm patts peUP lllloQ– OQe ppP ls eTulvaleQt to oQe P lllgUaP peUNlogUaP (P g/Ng), oUoQe glaP peUP lllloQglaP s. *For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of* water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis o esults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/Mp
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	b stimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >O5%
U	Compound was not detected
X,Y,Z	a efined in case narrative

Inorganic Qualifiers

B	s alue is <Co a L, but ≥la L
E	b stimated due to interference
M	a uplicate injection precision not met
N	p pike amount not within control limits
S	Method of standard additions (MpA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	a uplicate analysis not within control limits
+	*Correlation coefficient for MpA <0.995*

AQalytlFal test Uesults loUP ethoGs llsteGoQthe labolatoUes' aFFUeGtatloQ sFope P eet all UeTulUeP eQts ol N(/ AC uQless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. t e cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WA5 5 ANT< AND / ,M,TS OF / ,AB,/ ,T< – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. Teb Fl obGl ING buPobpp t AooANTv lp buCLUplsb ANa lp GlsbN IN LIbU l F ALL l Tebo t AooANTlbp, buPobpppba l o lMPLlba. t b alpCLAIM ANv l Tebo t AooANTlbp, buPobpppba l o lMPLlba, lNCLUalNG A t AooANTv l F FITNbpp Fl o PAoTICULAo PUoPl pb ANa t AooANTv l F MboCeANTABILITv. IN Nl bsbNT peALL LANCApTbo LABl oATl olbp Bb LIABLb Fl o INalobCT, pPbCIAL, Cl NpbQUbNTIAL, l o INClabNTAL aAMAGbp INCLUalNG, BUT Nl T LIMITba Tl , aAMAGbp Fl o Ll pp l F Pol FIT l o Gl l at ILL obGAoaLbpp l F (A) Teb NbGLIGbNCb (blTebo pl Lb l o Cl NCUoobNT) l F LANCApTbo LABl oATl olbp ANa (B) t ebTebo LANCApTbo LABl oATl olbp eAp BbbN INFl oMba l F Teb Pl ppIBILITv l F pUCe aAMAGbp. t e accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the ptandard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

713-937-7973

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1008565. Samples arrived at the laboratory on Thursday, October 05, 2006. The PO# for this group is 89CH.49386.72 and the release number is BUCKEYE-SA.

Client Description	Lancaster Labs Number
TW15 Grab Water Sample	4882390
TW19 Grab Water Sample	4882391
TW23 Grab Water Sample	4882392
RW3 Grab Water Sample	4882393
TW17 Grab Water Sample	4882394
TW11 Grab Water Sample	4882395
TW14 Grab Water Sample	4882396
TW10 Grab Water Sample	4882397
RW2 Grab Water Sample	4882398
TW9 Grab Water Sample	4882399
TW13 Grab Water Sample	4882400
TW20 Grab Water Sample	4882401
DUP1 Grab Water Sample	4882402

ELECTRONIC COPY TO SECOR International, Inc. Attn: Eric Page

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Analysis Report

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Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4882390

TW15 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/02/2006 15:35 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:23
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	503.	9.7	mg/l	1
00224	Chloride	16887-00-6	119.	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 02:00	Ashley M Heckman	50

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4882391

TW19 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/02/2006 16:23 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	290.	9.7	mg/l	1
00224	Chloride	16887-00-6	33.2	4.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 02:15	Ashley M Heckman	20

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Analysis Report

Lancaster Laboratories Sample No. WW 4882392

TW23 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/02/2006 17:10 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,070.	38.8	mg/l	1
00224	Chloride	16887-00-6	253.	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 03:02	Ashley M Heckman	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4882393

RW3 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/02/2006 16:38 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,930.	77.6	mg/l	1
00224	Chloride	16887-00-6	1,060.	100.	mg/l	500

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 01:21	Ashley M Heckman	500

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Analysis Report

Lancaster Laboratories Sample No. WW 4882394

TW17 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 10:15 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	296.	9.7	mg/l	1
00224	Chloride	16887-00-6	29.8	4.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 03:17	Ashley M Heckman	20

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Analysis Report

Lancaster Laboratories Sample No. WW 4882395

TW11 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 11:00 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	265.	9.7	mg/l	1
00224	Chloride	16887-00-6	35.1	4.0	mg/l	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 03:32	Ashley M Heckman	20

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Analysis Report

Lancaster Laboratories Sample No. WW 4882396

TW14 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 11:50 by WDB

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

Account Number: 11842

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	424.	9.7	mg/l	1
00224	Chloride	16887-00-6	69.6	5.0	mg/l	25

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/06/2006 10:42	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/11/2006 03:48	Ashley M Heckman	25

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Analysis Report

Lancaster Laboratories Sample No. WW 4882397

TW10 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 12:40 by WDB

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

Account Number: 11842

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	375.	9.7	mg/l	1
00224	Chloride	16887-00-6	66.6	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 12:27	Ashley M Heckman	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4882398

RW2 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 15:05 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	325.	9.7	mg/l	1
00224	Chloride	16887-00-6	49.8	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 12:42	Ashley M Heckman	50

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Analysis Report

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Lancaster Laboratories Sample No. WW 4882399

TW9 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 16:20 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	319.	9.7	mg/l	1
00224	Chloride	16887-00-6	54.5	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 12:57	Ashley M Heckman	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4882400

TW13 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 17:58 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	546.	9.7	mg/l	1
00224	Chloride	16887-00-6	93.5	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 13:13	Ashley M Heckman	50

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4882401

TW20 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected:10/03/2006 17:10 by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	310.	9.7	mg/l	1
00224	Chloride	16887-00-6	39.4	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 13:28	Ashley M Heckman	50

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4882402

DUP1 Grab Water Sample
Buckeye Vacuum Semi-Annual GW Event

Collected: n.a. by WDB

Account Number: 11842

Submitted: 10/05/2006 09:25
Reported: 10/12/2006 at 16:24
Discard: 11/12/2006

SECOR International, Inc.
10235 W. Little York
Ste 400
Houston TX 77040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00212	Total Dissolved Solids	n.a.	1,060.	38.8	mg/l	1
00224	Chloride	16887-00-6	250.	10.0	mg/l	50

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00212	Total Dissolved Solids	EPA 160.1	1	10/09/2006 09:58	Maria O Gittens	1
00224	Chloride	EPA 300.0	1	10/10/2006 13:43	Ashley M Heckman	50

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: SECOR International, Inc. Group Number: 1008565
Reported: 10/12/06 at 04:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06279021201A	Sample number(s): 4882390-4882396							
Total Dissolved Solids	N.D.	9.7	mg/l	90		80-120		
Batch number: 06282021201A	Sample number(s): 4882397-4882402							
Total Dissolved Solids	N.D.	9.7	mg/l	99		80-120		
Batch number: 06282196102A	Sample number(s): 4882390-4882396							
Chloride	N.D.	0.20	mg/l	98		90-110		
Batch number: 06283196101A	Sample number(s): 4882397-4882402							
Chloride	N.D.	0.20	mg/l	96		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06279021201A	Sample number(s): 4882390-4882396 UNSPK: P882092 BKG: P882091								
Total Dissolved Solids	101	105	60-140	2	5	3,480.	3,430.	1	5
Batch number: 06282021201A	Sample number(s): 4882397-4882402 UNSPK: P883709 BKG: P882926								
Total Dissolved Solids	108	117	60-140	3	5	786.	763.	3	5
Batch number: 06282196102A	Sample number(s): 4882390-4882396 UNSPK: P882408 BKG: P882408								
Chloride	104		90-110			37.3	37.2	0	3
Batch number: 06283196101A	Sample number(s): 4882397-4882402 UNSPK: 4882402 BKG: 4882402								
Chloride	101		90-110			250.	249.	0	3

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 11842 Group# 1008565 Sample # 4882390-402

COC # 0130657

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Chevron/Secor Acct. #:
Project Name/#: Buckeye Vac/ 09CH-4936.07.0001 PWSID #:
Project Manager: E/Page P.O.#:
Sampler: WBDE Quote #:
Name of state where samples were collected: New Mexico

For Lab Use Only
FSC:
SCR#: 33603

Preservation Codes
H=HCl T=Thiosulfate
$N=HNO_3$ B=NaOH
$S=H_2SO_4$ O=Other

(5) Analyses Requested — Preservation Codes: Cl (300.00); TDS – added per Eric Page on 10/6/06 g. Birchall #417

(6) Temperature of sample upon receipt (if requested)

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Soil	Water (Potable / NPDES)	Other	(4) Total # of Containers	Cl (300.00)		TDS							Remarks
TW15	10-2-6	1535	✓			✓		1	✓		X							
TW19	10-2-6	1623	✓			✓		1	✓		X							
TW23	10-2-6	1710	✓			✓		1	✓		X							
RW3	10-2-6	1638	✓	✓		✓		1	✓		X							
TW17	10-3-6	1015	✓			✓		1	✓		X							
TW11	10-3-6	1100	✓			✓		1	✓		X							
TW14	10-3-6	1150	✓			✓		1	✓		X							
TW10	10-3-6	1240	✓			✓		1	✓		X							
RW2	10-3-6	1505	✓			✓		1	✓		X							
TW9	10-3-6	1620	✓			✓		1	✓		X							

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 713.937.7973 Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)

Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-26-06	0755	[signature]	10-2-6	0520
[signature]	10-4-6	0730			
			[signature]	10/5/06	0925

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 11842 Group# 1008565 Sample # 4882390-2402 JH 10/3/06

COC # 0130656

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Chevron / Secor Acct. #:
Project Name/#: Buckeye Vac / 894-49386.07.0001 PWSID #:
Project Manager: E. Page P.O.#:
Sampler: WBDB Quote #:
Name of state where samples were collected: New Mexico

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(5) Analyses Requested — Preservation Codes

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Soil	Water	Other	(4) Total # of Containers	Cl (300.00)	TDS - added per Eric Page on 10/4/06 - g. Birchall #417								Remarks	(6) Temperature of samples upon receipt (if requested)
TW 13	10-3-6	1758	✓			✓		1	✓	x									
TW 20	10-3-6	1710	✓			✓		1	✓	x									
Dup 1			✓			✓		1	✓	x									

Matrix: ☐ Potable ☐ NPDES

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 713-937-7973 Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Bill [signature]	10-4-6	0730			
			Jess Zook [signature]	10/5/06	0925

Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less thaQ– The QuP beUlollowlQg the slgQ ls the <u>llP lt ol TuaQtltatloQ</u> the sP allest aP ouQt ol aQalyte whlFh FaQ be reliably determined using this specific test.

> greater than

ppm paUts peUP lllloQ– OQe ppP ls eTuIvaleQt to oQe P lllgUaP peUNlogUaP (P g/Ng), oUoQe gUaP peUP lllloQgUaP s. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis oesults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/Mp
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	bstimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >Ơ5%
U	Compound was not detected
X,Y,Z	aefined in case narrative

Inorganic Qualifiers

B	salue is <CoaL, but ≥laL
E	bstimated due to interference
M	auplicate injection precision not met
N	ppike amount not within control limits
S	Method of standard additions (MpA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	auplicate analysis not within control limits
+	Correlation coefficient for MpA <0.995

AQalytlFal test Uesults loUP ethoGs llsteGoQthe laboUatoUes' aFFUeGltatloQ sFope P eet all UeTuUeP eQts ol N(/ AC uQless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. t e cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WA55ANT< AND / ,M,TS OF / ,AB,/ ,T< – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. Teb Fl obGl ING buPobpp t AooANTv lp buCLUplsb ANa lp GlsbN IN LlbU l F ALL l Tebo t AooANTlbp, buPobppba l o IMPLlba. t b alpCLAIM ANv l Tebo t AooANTlbp, buPobppba l o IMPLlba, INCLUaING At AooANTv l F FITNbpp Fl o PAoTICULAo PUoPl pb ANa t AooANTv l F MboCeANTABILITv. IN Nl bsbNT peALL LANCApTbo LABl oATl olbp Bb LIABLb Fl o INalobCT, pPbCIAL, Cl NpbQUbNTIAL, l o INClabNTAL aAMAGbp INCLUaING, BUT Nl T LIMITba Tl , aAMAGbp Fl o Ll pp l F Pol FIT l o Gl l at ILL obGAoaLbpp l F (A) Teb NbGLIGbNCb (blTebo pl Lb l o Cl NCUoobNT) l F LANCApTbo LABl oATl olbp ANa (B) t ebTebo LANCApTbo LABl oATl olbp eAp BbbN INFl oMba l F Teb Pl ppIBILITv l F pUCe aAMAGbp. t e *accept no legal* responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the ptandard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.