GW - 004

2012 AGWMR

02 / 21 / 2013

Chevron

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February 21, 2013

Mr. Glenn von Gonten
Senior Hydrologist
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Von Gonten,

In accordance with the requirements of New Mexico Oil Conservation Division's Discharge Permit GW-004 for the Eunice North Gas Plant, please find enclosed a copy of the following report:

> *2012 Annual Groundwater Monitoring Report, Former Eunice North Gas Plant, Lea County, New Mexico, Discharge Permit GW-004.*

This report was prepared by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) to document groundwater monitoring activities performed for CEMC during calendar year 2012. Historical groundwater monitoring data are also included in the report.

Should you have any questions regarding the content of the report, please do not hesitate to contact me by phone at 713-372-7705 or via e-mail at kegan.boyer@chevron.com.

Sincerely,

Kegan W. Boyer, P.G.
Environmental Project Manager

2012 ANNUAL GROUNDWATER MONITORING REPORT

FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

DISCHARGE PERMIT GW-004

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FEBRUARY 2013
REF. NO. 073018 (6)

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1.0 INTRODUCTION

1.1 OVERVIEW

This Annual Groundwater Monitoring Report presents groundwater monitoring activities performed during the 2012 calendar year by environmental consultant Conestoga-Rovers and Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the Former Eunice North Gas Plant hereafter referred to as the "Site."

Site activities performed in 2012 included:

- Two semi-annual groundwater monitoring events performed in May and November 2012; and
- Installation of four pilot test monitoring wells and initiation of two chromium remedial pilot tests;

1.2 FACILITY LOCATION AND HISTORY

The Site is located approximately 0.5 miles north of the town of Eunice in the south half of the southeast quarter (SE/4) of the northeast quarter (NE/4) of Section 28, Township 21 South (T-21-S), Range 37 East (R-37-E). The approximate latitude/longitude coordinates for the Site are 32°27'01.46"N and 103°09'42.71"W. For the purpose of this report, the assessment Site included in the groundwater monitoring program is comprised of the original gas plant property and surrounding areas.

The Site was originally constructed by Skelly Oil Company during the 1940s, and subsequently acquired and modified by Texaco Exploration and Production, Inc. (Texaco) to operate as a turbo expander-type natural gas processing plant for extraction of natural gas liquids (NGL). Texaco operated the plant into the 1980s when the plant operations ceased and much of the equipment was dismantled and/or shut-in. Structures remaining on Site include two compressors, a compressor building, a cooling tower, former office buildings, above-ground storage tanks, sumps, and piping. Operations were transferred to Versado Gas Processors, LLC (Versado) on July 1, 1998. Versado is a limited liability partnership originally between Chevron and Dynegy Midstream Services (Dynegy). Dynegy continued to operate the two compressors in the northern portion of the Site. Dynegy subsequently was purchased by Targa Midstream Services, L.P. (Targa). Targa became a partner with Versado and currently operates the facility as a natural gas compressor station under an agreement with Chevron. Site Location and Site Details maps are illustrated on Figures 1 and 2.

In the early 1990s, Texaco discovered benzene and chromium contamination in soils and groundwater at the Site. In 1996, the New Mexico Oil Conservation Division (NMOCD) required an initial investigation of sumps at the plant as a condition of Groundwater Discharge Permit GW-004. This investigation confirmed dissolved benzene and chromium in groundwater at concentrations exceeding New Mexico Water Quality Control Commission (NMWQCC) human health standards. It was speculated that the source of the chromium contamination was from cooling tower blow-down waters being discharged around the surface of the plant. Sequential discharge permits have been submitted as needed. The current permit (Appendix A) was approved in January 2012 and is effective until March 2016.

Several soil and groundwater investigations were conducted between 1996 and 2003. Three (3) primary dissolved-phase groundwater constituents of concern (COCs) were identified at the Site including: total and hexavalent chromium, dissolved petroleum hydrocarbons, and dissolved solids (with chloride concentrations representative of dissolved solids). Arsenic, iron and manganese are also included in the Discharge Permit groundwater monitoring requirements and have been sampled and analyzed for since 2004.

In 2003, a buried metal sump was removed, along with approximately 740 cubic yards of hydrocarbon impacted soils, in the vicinity of monitor wells MW005 and MW006. The area was over-excavated and backfilled during the remedial effort. Light non-aqueous phase liquids (LNAPLs) have been observed periodically in monitor wells MW005 and MW006 since the remediation was completed. Semi-annual groundwater monitoring and LNAPL recovery and remediation activities were initiated at these wells in 2004 and LNAPL recovery suspended in 2011 as LNAPL was not detected in any monitor wells during 2011 or 2012 sampling events.

Beginning in 2003, remedial efforts for chromium contamination in groundwater were initiated. A "study area" was established in the area of highest chromium concentrations and three injection wells were installed to allow pilot testing of remedial alternatives. An initial remedial alternative was tested in an "In-Situ Reactive Zone" (IRZ). Groundwater treatment, consisting of injections of molasses, was completed to provide a carbohydrate-based electron donor to lower the oxidation-reduction potential of groundwater to stimulate reduction of hexavalent chromium to trivalent chromium. Trivalent chromium is less toxic and readily precipitates as $Cr(OH)_3$ under alkaline or even slightly acidic conditions. The initial pilot study was expanded through installation of a longitudinal array of 14 injection wells completed at the northeastern end of the chromium plume (distal array). The IRZ treatment was applied to this array

as well. IRZ treatments were discontinued in 2005 when bench testing demonstrated an alternative method could be a potentially more effective remedy.

In 2008, the bench tested remedial alternative was implemented as an in-situ pilot study. Injection wells IW018 through IW028 (medial array) were selected as injection wells since they bisect the dissolved chromium plume perpendicular to the groundwater flow direction. An inorganic reducing agent (calcium polysulfide) along with an electron donor (sodium acetate solution) was injected in each well continuously for seven (7) days. The pilot study demonstrated that chromium concentrations were reduced in the area of the injections, however, clogging of the wells occurred.

In June 2012, four deep groundwater monitor wells were installed in the southeast corner of the facility property, three in the vicinity of deep well MW-007A (MW-096, MW-097, IW-029) and one in the vicinity of deep well MW-009A (IW-030). These wells were installed as part of two chromium remediation pilot tests initiated in September 2012 to further evaluate two alternative methods for fixation of dissolved hexavalent chromium at the Site. The pilot tests were approved by NMOCD and detailed in renewed Discharge Permit #GW-004.

2.0 REGULATORY BACKGROUND

The New Mexico Oil Conservation Division (NMOCD) guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103 Sections A & B. NMQCC 20.6.2.3103 Section A provides the Human Health Standards for Groundwater; Section B provides Other Standards for Domestic Water Supply. The constituents of concern (COCs) designated for affected groundwater at the Site are - benzene, toluene, ethylbenzene, and xylenes (BTEX), dissolved arsenic, dissolved chromium, hexavalent chromium, total dissolved solids (TDS) and chlorides. In this report, groundwater analytical results for the COCs are compared to the NMWQCC standards as show in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
20.6.2.3103 Section A – Human Health Standard	
Arsenic	0.100
Chromium	0.050
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
20.6.2.3103 Section B – Other Standards for Domestic Water Supply	
Chloride	250
Iron	1.0
Manganese	0.2
Total Dissolved Solids	1,000

3.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater at the Site is monitored on a semi-annual basis with a network of 151 wells which include:

Shallow zone wells:

- Forty-eight shallow zone monitor wells;
- Two shallow zone injection wells (IW001 and IW002); and
- Two shallow zone recovery wells (RW002 and RW003).

Middle Zone Wells: (Grouped with shallow zone wells throughout the report for simplicity.)

- Four middle zone monitor wells (MW-8M, MW-11M, MW-12M and MW-88M).

Deep zone wells:

- Sixty-three deep zone monitor wells (identified with an A or SA appended to well ID);
- Fourteen deep zone injection wells at the distal array (IW012 is not sampled);
- Eleven deep zone medial array injection wells;
- Two deep zone recovery well (RW003 and RW004A); and
- Five deep zone water wells (drilled and owned by landowners – LORDWW, ROLANDWW, WOODELLWW, GOPWW2, EPWW1(no current access)).

Four deep wells were also installed as part of a chromium remediation pilot test in June 2012 but are not included as part of the groundwater monitoring network.

Two semi-annual groundwater monitoring events were performed in May and November 2012.

3.1 GROUNDWATER GAUGING

Prior to purging wells, depth to groundwater was gauged and recorded from the top of casing (TOC) in all accessible wells to the nearest hundredth of a foot utilizing an oil-water interface probe. No measurable LNAPL thicknesses were detected in any wells during the 2012 calendar year.

Shallow Zone Wells

Depth to groundwater measurements were collected from 54 and 55 shallow zone wells during the May and November 2012 gauging events, respectively. Depth to water measurements ranged from 37.35 feet in MW018 to 70.92 feet in MW028 below top-of-casing (TOC) during the May 2012 gauging event and from 37.24 feet in MW018 to 70.92 feet in MW028 below TOC during the November 2012 gauging event.

Deep Zone Wells

Depth to groundwater measurements were collected from 93 and 86 deep zone wells during the May and November 2012 gauging events, respectively. Depth to water measurements ranged from 37.01 feet in MW016A to 59.02 feet in MW070A below TOC in May 2012 and from 36.93 feet in MW018A to 59.05 feet in MW070A below TOC in November 2012.

Groundwater Gradient

Groundwater elevations at the Site appear to be consistent with historical levels and the groundwater gradient continues to be to the northeast direction. The average gradient observed in the shallow zone in 2012 was 0.0018 feet/foot. The average gradient observed in the deep zone in 2012 was 0.0075 feet/foot. Shallow and deep zone groundwater gradient maps for both 2012 semi-annual groundwater monitoring events are presented as Figures 3, 4, 5, and 6. Depth to groundwater elevations collected in 2011 and 2012 are presented in Table 1. Historical groundwater elevation data (1997-2012) for shallow and deep wells are presented in Appendix B.

3.2 WELL PURGING AND SAMPLING

A total of 143 wells from the shallow and deep zones were gauged in the May 2012 event, and 142 wells were sampled. Wells MW028, MW037, IW009 and IW012 were gauged but not sampled due to insufficient water volume, and water wells EPWW1, LORDWW, and WoodellWW were sampled but not gauged due to access issues during the May 2012 event.

A total of 130 wells from the shallow and deep zones were gauged in the November 2012 event, and 69 wells were sampled. Wells MW006 and MW037 were gauged but not sampled due to insufficient water volume, and water wells GOPWW2 and WoodellWW were sampled but not gauged due to access issues during the November 2012 event.

Shallow Zone Wells

Subsequent to gauging, the shallow zone wells were purged using EPA approved low-flow sampling methodology. Geochemical water quality parameters including temperature, pH, dissolved-oxygen, oxidation-reduction potential, and conductivity were recorded at approximately five minute intervals during purging activities. When three consecutive readings indicated stabilization of parameters (variation <10%), the groundwater was considered representative of formation water and groundwater samples were collected. A summary of the geochemical parameters for the 2012 semi-annual monitoring events are presented in Table 2.

Deep Zone Wells

Subsequent to gauging, deep zone wells were purged using a submersible pump set near the bottom of the wells, within the screened interval pursuant to low-flow guidelines. Geochemical water quality parameters including temperature, pH, and conductivity were recorded at approximately five minute intervals during purging activities. When three consecutive readings indicated stabilization of parameters (variation <10%), the groundwater was considered representative of formation water and groundwater samples were collected via the discharge hose. A summary of the deep well final geochemical parameters for the 2012 semi-annual monitoring events is presented in Table 2.

Laboratory Analysis

All groundwater samples collected were labeled, placed on ice in an insulated cooler, and delivered to Xenco Laboratories (Xenco) located in Odessa, Texas, for analysis of the following:

- BTEX by EPA Method 8021B
- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M as gasoline range hydrocarbons
- TPH by EPA Method 8015M as diesel range hydrocarbons;
- Dissolved Metals (arsenic, chromium, iron, manganese) by EPA Method 6010B;
- Hexavalent chromium by EPA Method 7196A;
- Chlorides by EPA Method 300; and
- Total Dissolved Solids (TDS) by EPA Method 2540C.

Purge Water

Purge water generated during the sampling events were containerized onsite in a labeled polyethylene tank and subsequently managed by a third-party subcontractor at an NMOCD-permitted disposed facility.

3.3 GROUNDWATER ANALYTICAL RESULTS

Analytical results for both semi-annual 2012 groundwater monitoring events are summarized in Tables 3 through 8. Certified lab reports, chain of custodies and data validation reports are provided in Appendix C. Constituent concentration data shown in bold print indicate detections above the laboratory reporting limit. Shaded/highlighted detections represent concentrations exceeding the NMWQCC regulatory standards. Graphs of constituent concentration through time for benzene, chromium and hexavalent chromium are provided in Appendix D. Chromium and hexavalent chromium isoconcentration maps in the shallow and deep zones for May and November 2012 are presented as Figures 7 through 14. BTEX isoconcentration maps for the shallow and deep zones in May and November 2012 are presented as Figures 15 through 18. Chloride isoconcentration maps for the shallow and deep zones for May and November are presented as Figures 19 through 22. In addition, geological cross-sections (strike and dip) depicting chloride, chromium and BTEX concentrations for May and November are presented as Figures 23, 24, 25 and 26.

3.3.1 FIRST 2012 SEMI-ANNUAL EVENT (MAY)

The following tables present the number of wells with: 1) detections of select analytes, and 2) detections of those analytes which exceeded the NMWQCC Standard during the May 2012 monitoring event. In addition, the minimum and maximum detected concentrations for each COC during the monitoring event are also provided.

Shallow Wells – May 2012	Chromium	Hexavalent Chromium
Number of Detections	23	25
Exceedances Above Regulatory Limit	11	13
Minimum Concentration (mg/L) Well ID	0.0117 MW025	0.0118 MW005
Maximum Concentration (mg/L) Well ID	4.58 MW095	4.87 MW095

Deep Wells – May 2012	Chromium	Hexavalent Chromium
Number of Detections	38	46
Exceedances Above Regulatory Limit	23	31
Minimum Concentration (mg/L) Well ID	0.0128 IW004	0.0105 IW027
Maximum Concentration (mg/L) Well ID	1.82 MW011A	2.96 RW004A

Shallow Wells – May 2012	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	6	2	8	4
Exceedances Above Regulatory Limit	5	0	0	0
Minimum Concentration (mg/L) Well ID	0.00359 MW060	0.002 MW036	0.0011 MW045	0.00288 MW005
Maximum Concentration (mg/L) Well ID	0.188 MW005	0.00279 IW001	0.142 MW005	0.592 MW036

Deep Wells – May 2012	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	2	1	1	0
Exceedances Above Regulatory Limit	0	0	0	0
Minimum Concentration (mg/L) Well ID	0.00106 MW056SA	0.0272J IW008	0.00277 MW046A	--- ---
Maximum Concentration (mg/L) Well ID	0.00113 MW046A	0.0272J IW008	0.00277 MW046A	--- ---

Shallow Wells – May 2012	Chloride
Number of Detections	52
Exceedances Above Regulatory Limit	35
Minimum Concentration (mg/L) Well ID	20.9 MW003
Maximum Concentration (mg/L) Well ID	2,570 MW010

Deep Wells – May 2012	Chloride
Number of Detections	90
Exceedances Above Regulatory Limit	64
Minimum Concentration (mg/L) Well ID	45.3 MW070A
Maximum Concentration (mg/L) Well ID	3,000 J MW021A

3.3.2 SECOND 2012 SEMI-ANNUAL EVENT (NOVEMBER)

The following tables present the number of wells with: 1) detections of select analytes, and 2) detections of those analytes which exceeded the NMWQCC Standard during the November 2012 monitoring event. In addition, the minimum and maximum detected concentrations for each COC during the monitoring event are also provided.

Shallow Wells – November 2012	Chromium	Hexavalent Chromium
Number of Detections	9	10
Exceedances Above Regulatory Limit	8	7
Minimum Concentration (mg/L) Well ID	0.0395 MW014	0.0275 MW014
Maximum Concentration (mg/L) Well ID	5.18 MW095	5.01 MW061

Deep Wells – November 2012	Chromium	Hexavalent Chromium
Number of Detections	10	10
Exceedances Above Regulatory Limit	8	8
Minimum Concentration (mg/L) Well ID	0.0129 MW057SA	0.0124 MW057SA
Maximum Concentration (mg/L) Well ID	0.455 MW048SA	0.451 MW048SA

Shallow Wells – November 2012	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	1	0	1	0
Exceedances Above Regulatory Limit	1	0	0	0
Minimum Concentration (mg/L) Well ID	0.117 MW033	--- ---	0.105 MW033	--- ---
Maximum Concentration (mg/L) Well ID		--- ---		--- ---

There were no detections or exceedances for BTEX in any deep wells sampled during the November 2012 monitoring event.

Shallow Wells – November 2012	Chloride
Number of Detections	26
Exceedances Above Regulatory Limit	17
Minimum Concentration (mg/L) Well ID	80.3 MW021
Maximum Concentration (mg/L) Well ID	2,680 MW010

Deep Wells – November 2012	Chloride
Number of Detections	43
Exceedances Above Regulatory Limit	29
Minimum Concentration (mg/L) Well ID	46.9 MW023A
Maximum Concentration (mg/L) Well ID	2,190 MW015A

4.0 GROUNDWATER INVESTIGATION ACTIVITIES

In June 2012, four deep groundwater monitor wells were installed in the southeast corner of the facility property, three in the vicinity of deep well MW-007A (MW-096, MW-097, IW-029) and one in the vicinity of deep well MW-009A (IW-030). These wells were installed as part of two chromium remediation pilot tests initiated in September 2012 to further evaluate two alternative methods for fixation of dissolved hexavalent chromium at the Site. The ultimate purpose of these pilot tests is to develop a long term cost-effective remedial strategy that will reduce chromium contamination at the ENGP to below regulatory standards. The primary objectives of the tests were to determine the effects of sodium dithionite and soy lactate as potential reagents in lowering hexavalent chromium concentrations, and evaluate optimal injection characteristics for these potential reagents. The pilot tests were approved by NMOCD and detailed in renewed Discharge Permit #GW-004. The respective well locations are presented in Figure 2. Boring and well construction detail logs for these new wells are included in Appendix F.

4.1 FIELD METHODOLOGIES

Prior to mobilizing the drilling equipment to the Site, the boring location areas were marked and a utility notification made at least 48-hours prior to mobilization. A post-hole digger was utilized to clear each boring location to a depth of approximately 5-feet bgs and approximately 10-inches in diameter.

An air/mud-rotary rig, operated by a licensed State of New Mexico water well driller (license #1670), Harrison & Cooper, Inc. Drilling and Pump Professionals, Texas, was utilized to advance the four monitor well borings to depths ranging from 98' to 110' bgs to allow assessment of groundwater conditions at these locations.

The four borings were converted to four-inch diameter groundwater monitoring wells (MW096, MW097) constructed utilizing 0.020 slot size PVC screen, with PVC casing from the top of the screen to three feet above the ground surface. General well specifications included:

- Four-inch diameter PVC casing/screens with gravel-packed (20/40) screened intervals;
- 10 feet of screen;
- Bentonite seals above the gravel pack;
- Cement from the top of the bentonite seal to the surface; and

- Above ground surface completions (stick-up) with concrete pads.

The wells were developed by bailing approximately ten well volumes of water with a 15-feet steel bailer. Purge water was containerized in a properly labeled, polyethylene tank for subsequent disposal. The monitor wells were surveyed by West Company of Midland to determine the top of casing (TOC) elevations for use in calculating groundwater elevation at the wells. New Mexico Office of the State Engineer (NMOSE) Monitor Well Records are provided in Appendix E and CRA Soil Boring Logs and Monitor Well Construction Details are in Appendix F.

4.2 GROUNDWATER ASSESSMENT RESULTS

Since monitoring of groundwater conditions after initiation of the two September 2012 pilot injection tests is ongoing, groundwater analytical and pilot test results will be summarized in a separate report after receipt of all test results. As outlined in the Discharge Permit, three monthly post-injection groundwater sampling events have been performed at the four total MW-007A area wells (sodium dithionite injection) and four 2013 quarterly post-injection groundwater sampling events are being performed at the four MW-009A area wells (soy lactate injection).

5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) EVALUATION

To confirm sample quality and reproducibility, twelve field duplicate samples (shown below) were collected during the May 2012 semi-annual monitoring event.

Duplicate Sample ID	Parent Sample ID
DUP 1	MW004
DUPe 001A	MW013
DUP 1A	MW039A
DUP 2	MW058
DUP 2A	MW055SA
DUP 3A	IW028
DUP 4	MW095
DUP 4A	MW051SA
DUP 5A	IW014
DUP 6A	MW056SA
DUP 7A	MW089SA
DUP 8A	MW065SA

During the November 2012 semi-annual monitoring event, six field duplicate samples (shown below) were collected.

Duplicate Sample ID	Parent Sample ID
DUP 1	MW013
DUP 2	MW058
DUP 3	MW065SA
DUP 4	MW055SA
DUP 5	MW054SA
DUP 6	MW048SA

Samples were analyzed for BTEX by EPA Method 8021B, TPH as gasoline and diesel range hydrocarbons by EPA Method 8015M, dissolved metals (arsenic, chromium, iron, manganese) by EPA Method 6010B, hexavalent chromium by EPA Method 7196A, chlorides by EPA Method 300 and TDS by EPA Method 2540C. Certified groundwater laboratory reports received from Lancaster Laboratories for the both sampling event were reviewed by a CRA analytical chemist for laboratory and field method QA/QC. Certified copies of laboratory analytical results are included in Appendix C. No significant deviations were encountered in the sample results for duplicate constituents,

the data produced by Xenco Laboratories were found to exhibit acceptable levels of accuracy and precision.

6.0 OPERATION AND MAINTENANCE ACTIVITIES

Light non-aqueous phase liquids (LNAPLs) were not observed in either MW005 or MW006 during either the 2011 or 2012 calendar years, although LNAPL was observed and recovered in previous years. As a result of the absence of LNAPL at the Site, the renewed Discharge Permit request did not include LNAPL recovery activities. However, ongoing groundwater monitoring activities will continue to include LNAPL observations.

7.0 FINDINGS

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

- Groundwater at the Site is monitored on a semi-annual basis with a network of 151 wells;
- Shallow Zone Wells: Depth to groundwater ranged from 37.35 feet in MW018 to 70.92 feet in MW028 below TOC during the May 2012 gauging event and from 37.24 feet in MW018 to 70.92 feet in MW028 below TOC during the November 2012 gauging event. The average gradient observed in the shallow zone in 2012 was 0.0018 feet/foot to the northeast;
- Deep Zone Wells: Depth to groundwater ranged from 37.01 feet in MW016A to 59.02 feet in MW070A below TOC during the May 2012 gauging event and from 36.93 feet in MW018A to 59.05 feet in MW070A below TOC during the November 2012 gauging event. The average gradient observed in the deep zone in 2012 was 0.0075 feet/foot to the northeast;
- LNAPL was not detected in any wells during the 2012 calendar year;
- Total chromium concentrations exceeded the NMWQCC standards in 14 shallow wells and 28 deep wells during the May 2012 groundwater monitoring event;
- Total chromium concentrations exceeded the NMWQCC standards in 10 shallow wells and 12 deep wells during the November 2012 groundwater monitoring event;
- Hexavalent chromium concentrations exceeded the NMWQCC standards in 16 shallow wells and 38 deep wells during the May 2012 groundwater monitoring event;
- Hexavalent chromium concentrations exceeded the NMWQCC standards in 9 shallow wells and 12 deep wells during the November 2012 groundwater monitoring event;
- Benzene concentrations exceeded the NMWQCC standards in 5 shallow well during the May 2012 groundwater monitoring event;
- Benzene concentrations exceeded the NMWQCC standards in 1 shallow well during the November 2012 groundwater monitoring event;
- Chloride concentrations exceeded NMWQCC standards in 38 shallow wells and 69 deep wells during the May 2012 groundwater monitoring event;
- Chloride concentrations exceeded NMWQCC standards in 19 shallow wells and 33 deep wells during the November 2012 groundwater monitoring event; and

- In June 2012, four deep groundwater monitor wells (MW096, MW097, IW029, IW030) were installed in the vicinity of wells MW007A and MW009A to depths ranging from 98 to 110 feet. These wells were installed as part of two chromium remediation pilot tests initiated in September 2012 to further evaluate two alternative methods for fixation of dissolved hexavalent chromium at the Site. The pilot tests were approved by NMOCD and detailed in renewed Discharge Permit #GW-004. Since monitoring of groundwater conditions after initiation of the two September 2012 pilot injection tests is ongoing, groundwater analytical and pilot test results will be summarized in a separate report after receipt of all test results. As outlined in the Discharge Permit, three monthly post-injection groundwater sampling events have been performed at the four total MW-007A area wells (sodium dithionite injection) and four 2013 quarterly post-injection groundwater sampling events are being performed at the four MW-009A area wells (soy lactate injection).

8.0 RECOMMENDATIONS AND FUTURE SITE ACTIVITIES

Based upon the summary and conclusions presented in this report, the following is recommended:

- Complete the two chromium remediation pilot studies to evaluate groundwater chromium reduction options at the Site, and begin evaluation of data from the two pilot studies;
- Perform onsite assessment of potential chloride-affected soils using electromagnetic geophysical and soil sampling methods; and
- Complete the 2013 semi-annual groundwater sampling events during May and November 2013. Groundwater samples will be collected from all wells that do not contain measureable LNAPL.

Future Site activities planned in 2013 will include:

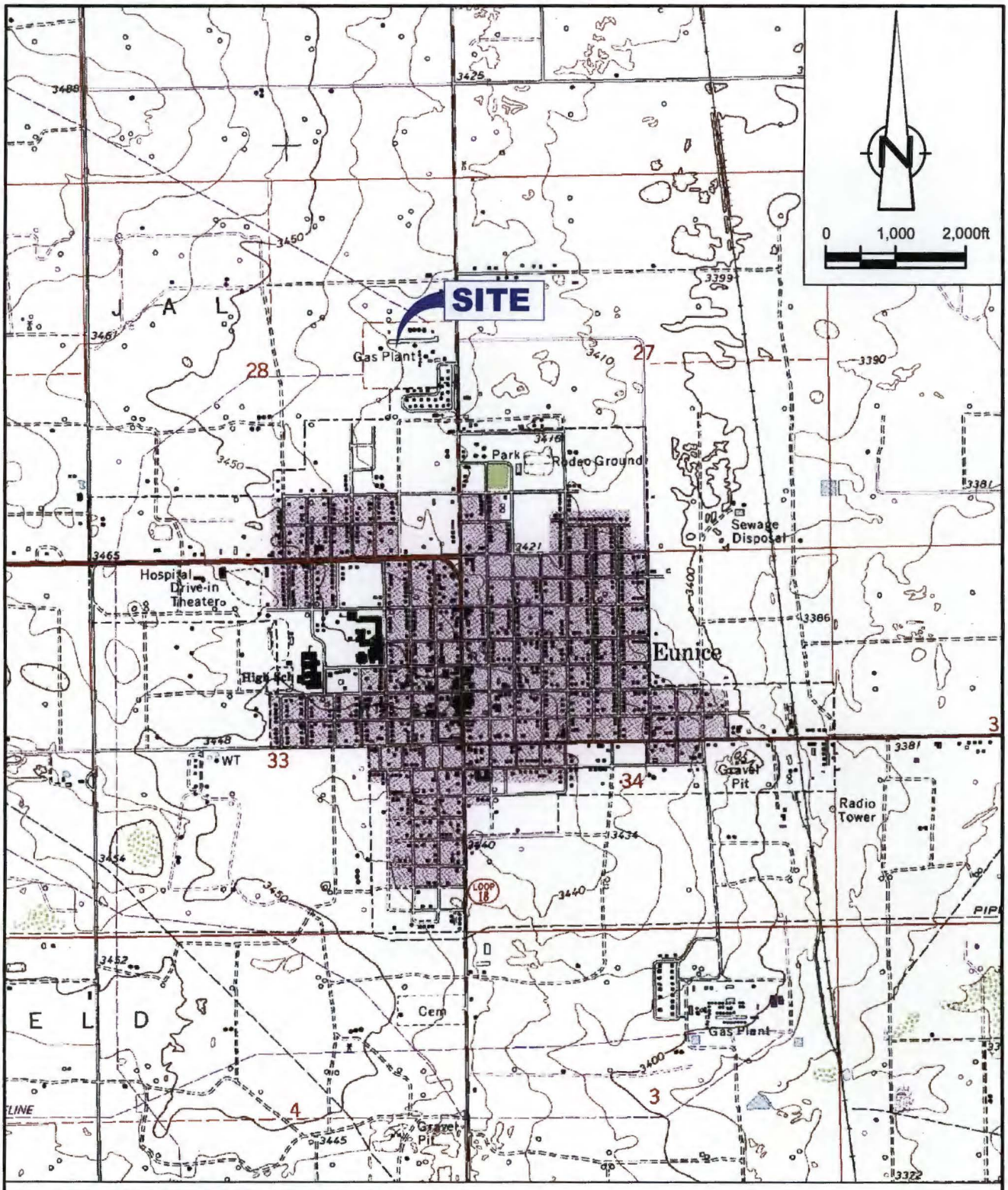
- Evaluation of groundwater pilot testing results and development of an understanding regarding the potential to fixate or otherwise control hexavalent chromium long-term.
- Evaluate the extent and potential exceedance of chloride-affected soils and develop potential remedial approaches to chloride-affected soils and groundwater.
- Develop an understanding of the overall closure approaches necessary under NMOCD regulations for the Site, including application of cost-effective alternatives indicated in recent and ongoing site assessment and pilot testing activities.

All of Which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

Mike Wisniowiecki
Senior Project Manager

Joe Cruseturner
Principal



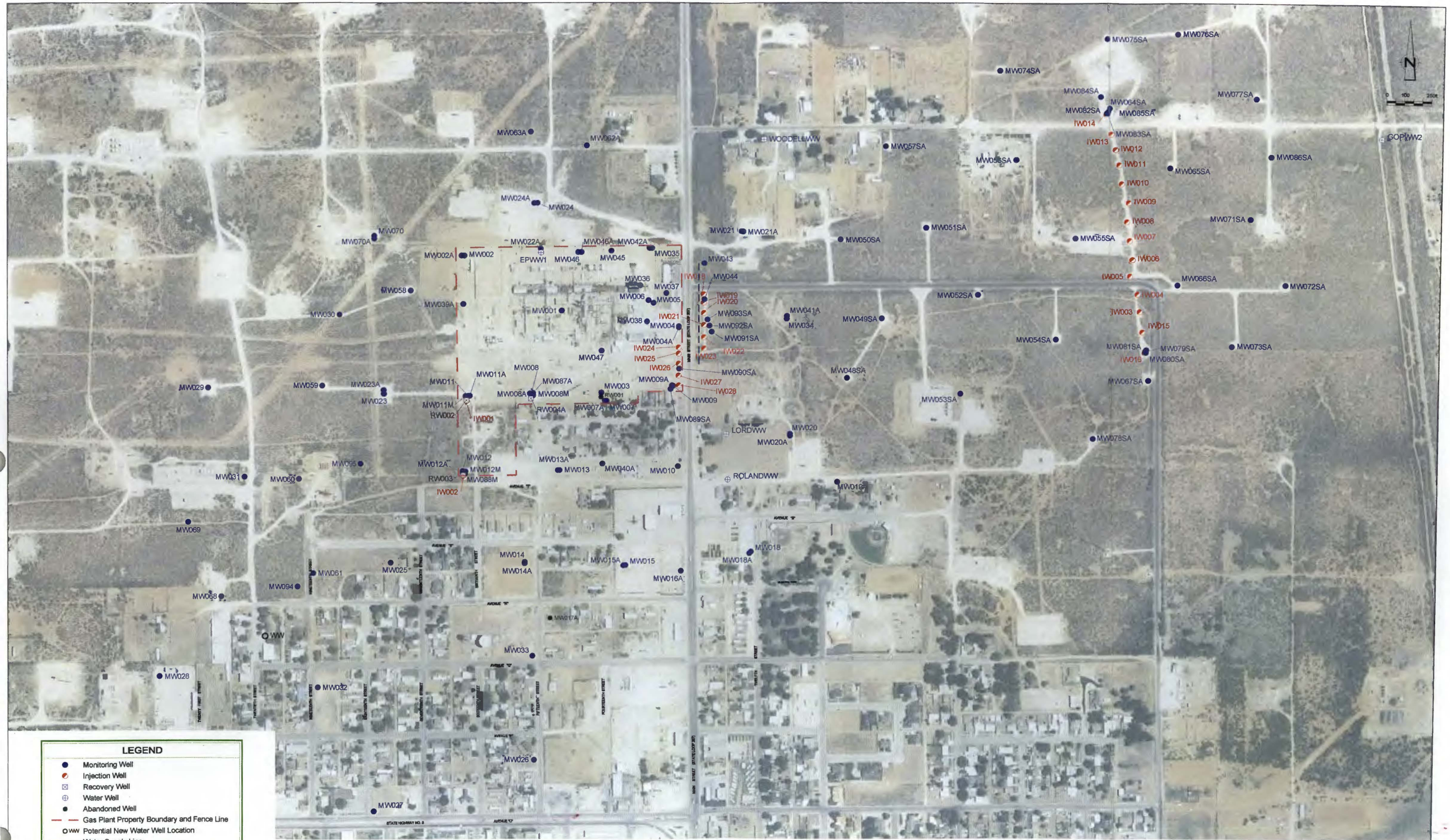
RE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS, "EUNICE AND RATTLESNAKE CANYON NEW MEXICO".

figure 1

SITE LOCATION MAP
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

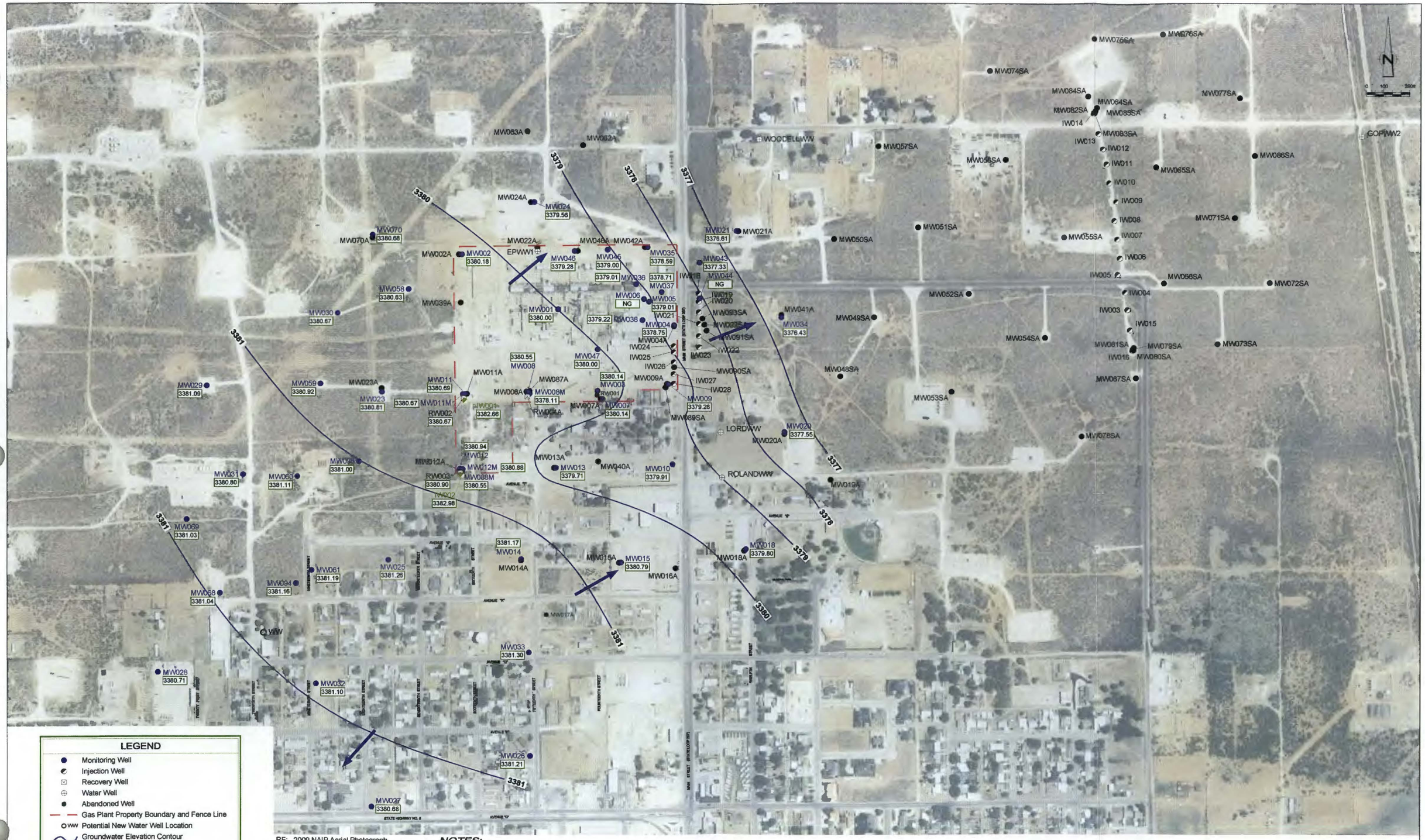
CRA

073018-2012(006)GN-DL001 JAN 31/2013



RE: 2009 NAIP Aerial Photograph.

figure 2
WELL LOCATION MAP
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- VWW Potential New Water Well Location
- Groundwater Elevation Contour (Interval = 2.00 ft)
- 3380.68 Elevation of Groundwater (ft)
- Direction Of Groundwater Flow
- NG Not Gauged

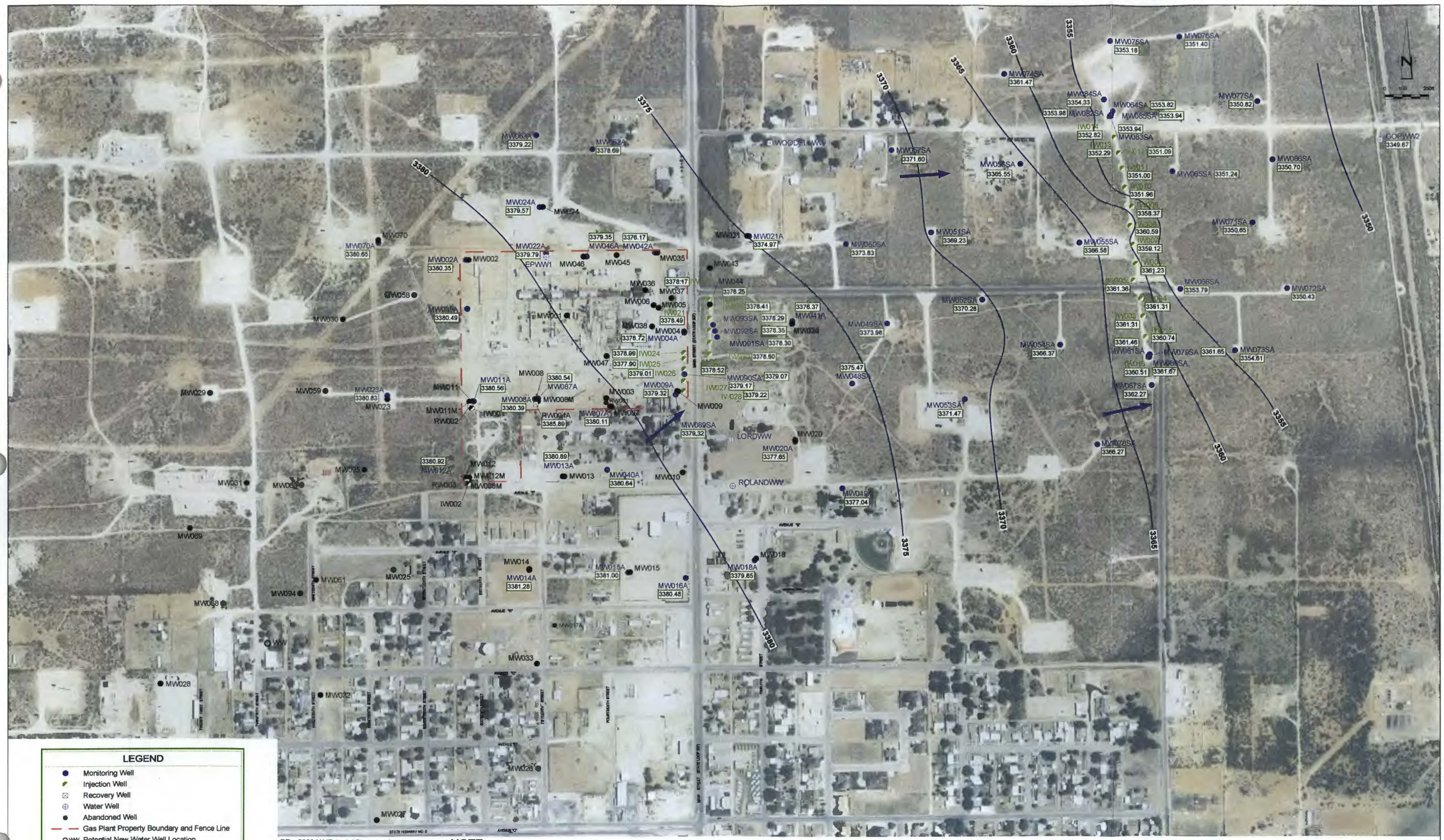
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. Groundwater elevations gauged on May 1-4, 2012.
2. Wells IW001 and IW002 were not honored in the gradient.

figure 3

GROUNDWATER GRADIENT MAP
SHALLOW WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- Potential New Water Well Location
- Groundwater Elevation Contour (Interval = 5.00 ft)
- 3381.28 Elevation of Groundwater (ft)
- Direction Of Groundwater Flow

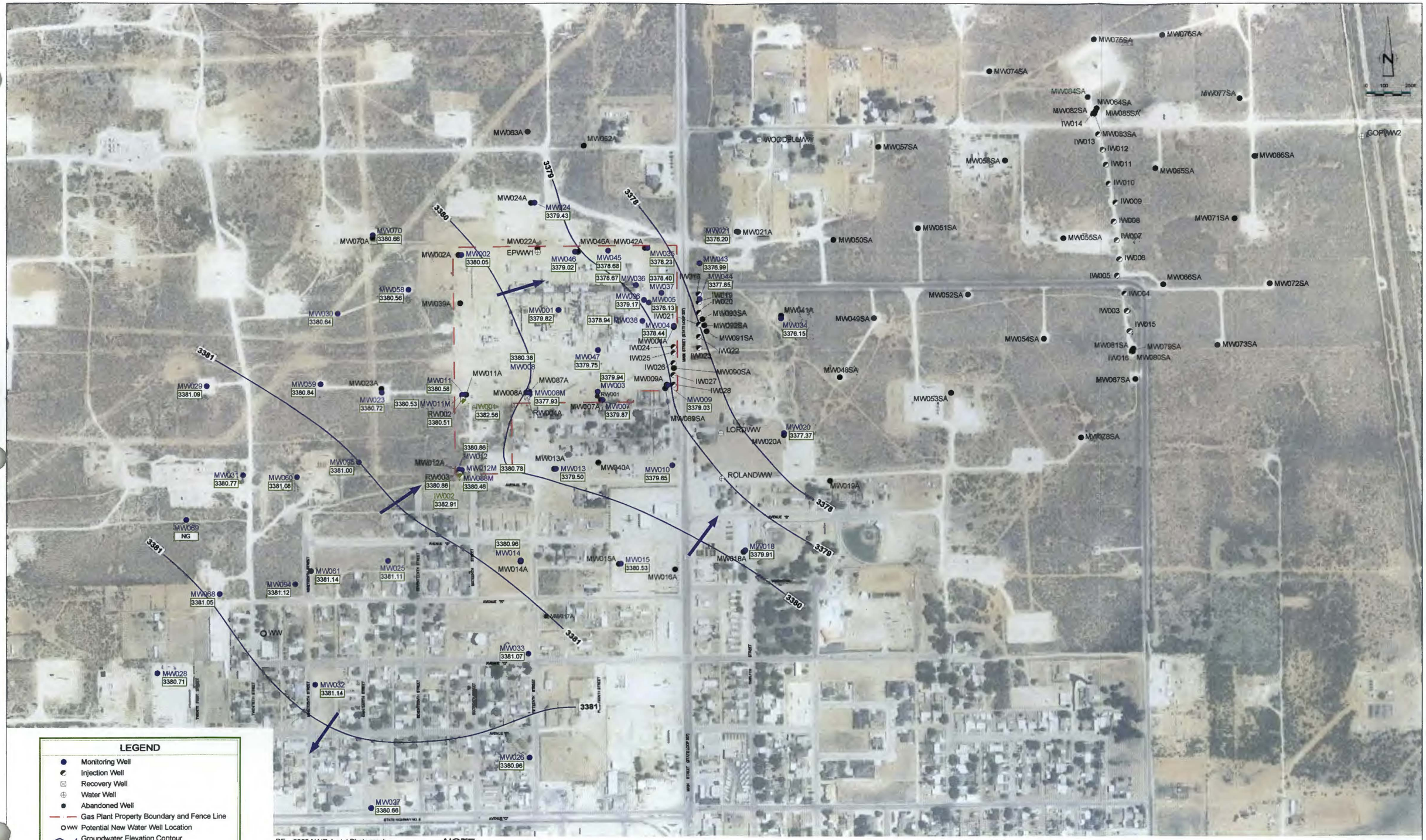
RE: 2009 NAIP Aerial Photograph.

NOTE:

1. Groundwater elevations gauged on May 1-4, 2012.
2. Wells MW023A and IW018 were not honored in the gradient.

figure 4

GROUNDWATER GRADIENT MAP
DEEP WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- Groundwater Elevation Contour (Interval = 1.00 ft)
- 3380.66 Elevation of Groundwater (ft)
- Direction Of Groundwater Flow
- NG Not Gauged

RE: 2009 NAIP Aerial Photograph.

NOTE:

1. Groundwater elevations gauged on October 23-24, 2012.
2. Wells MW008M, MW031, IW001 and IW002 were not honored in the gradient.

figure 5

GROUNDWATER GRADIENT MAP
SHALLOW WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

14 30 19 32

LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- PWW Potential New Water Well Location
- Groundwater Elevation Contour (Interval = 5.00 ft)
- 3381.09 Elevation of Groundwater (ft)
- Direction Of Groundwater Flow
- NG Not Gauged

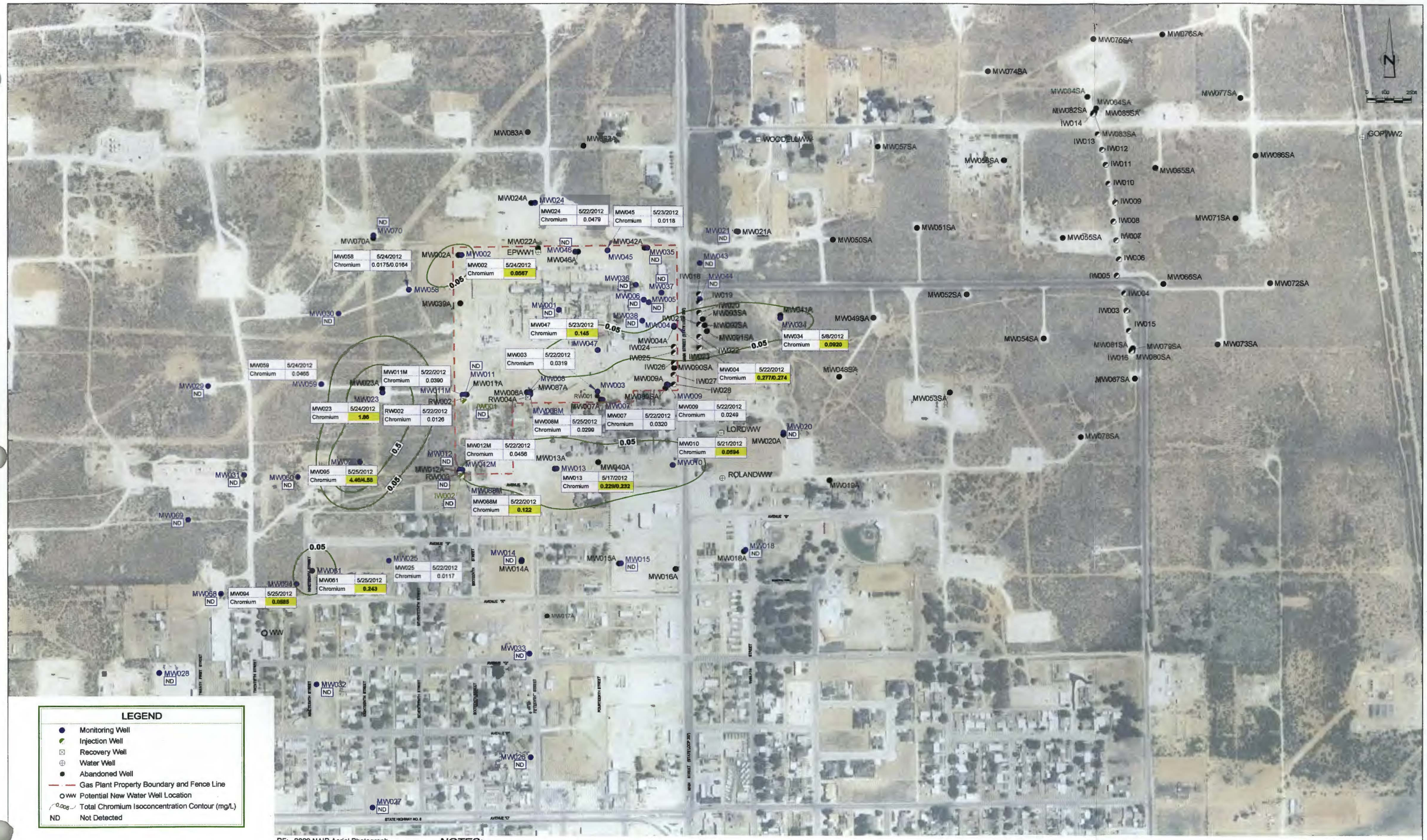
RE: 2009 NAIP Aerial Photograph.

NOTE:

1. Groundwater elevations gauged on October 23-24, 2012.

figure 6

GROUNDWATER GRADIENT MAP
DEEP WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.005 Total Chromium Isoconcentration Contour (mg/L)
- ND Not Detected

Sample ID — MW095 — 5/25/2012 — Sample Date
Constituent — Chromium — 4.46/4.58 — Result (mg/L)
Parent Result (mg/L)

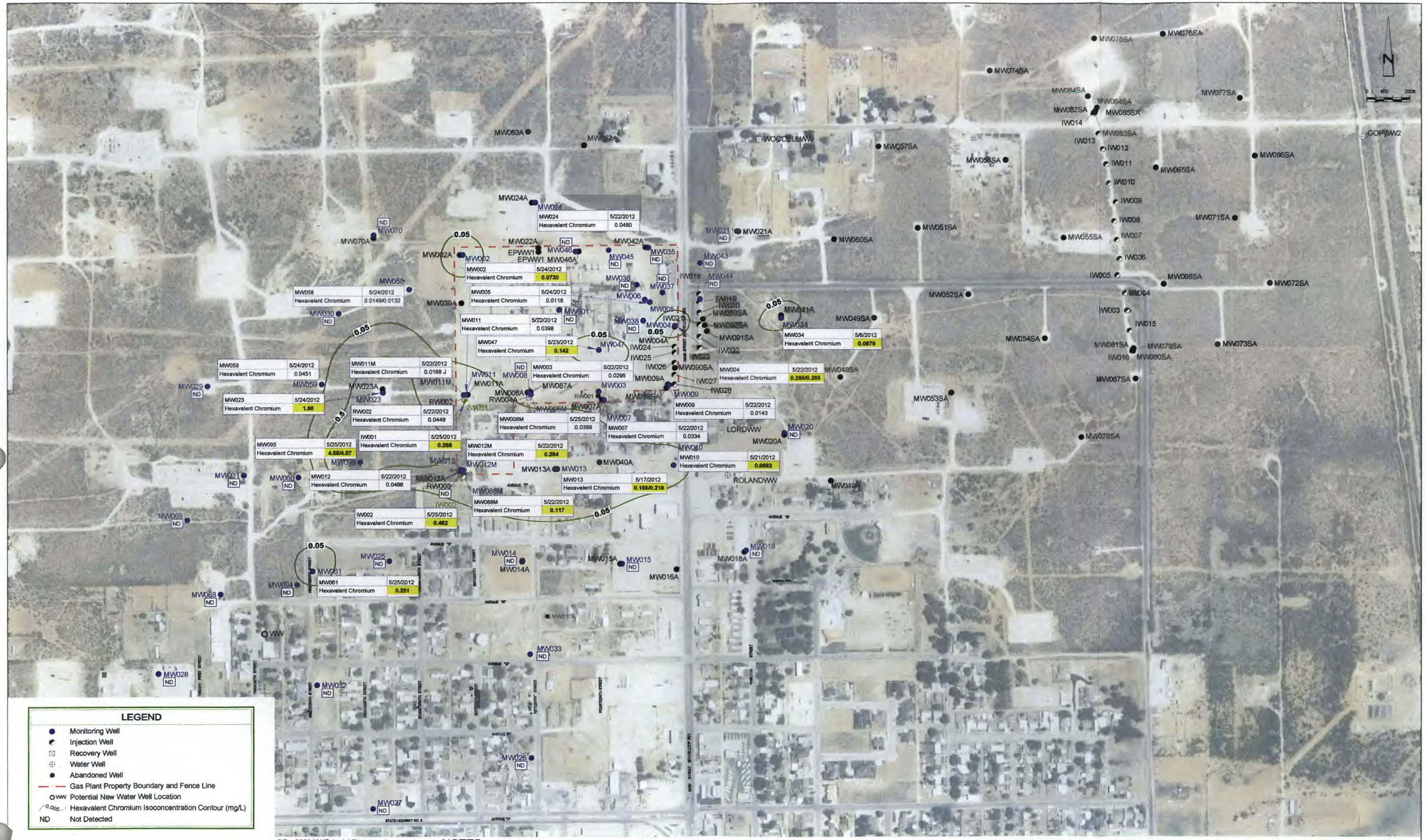
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 7
TOTAL CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL005 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.005 Hexavalent Chromium Isoconcentration Contour (mg/L)
- ND Not Detected

Sample ID — MW095 — 5/25/2012 — Sample Date
Constituent — Hexavalent Chromium — 4.68/4.67 — Result (mg/L)
Parent Result (mg/L)

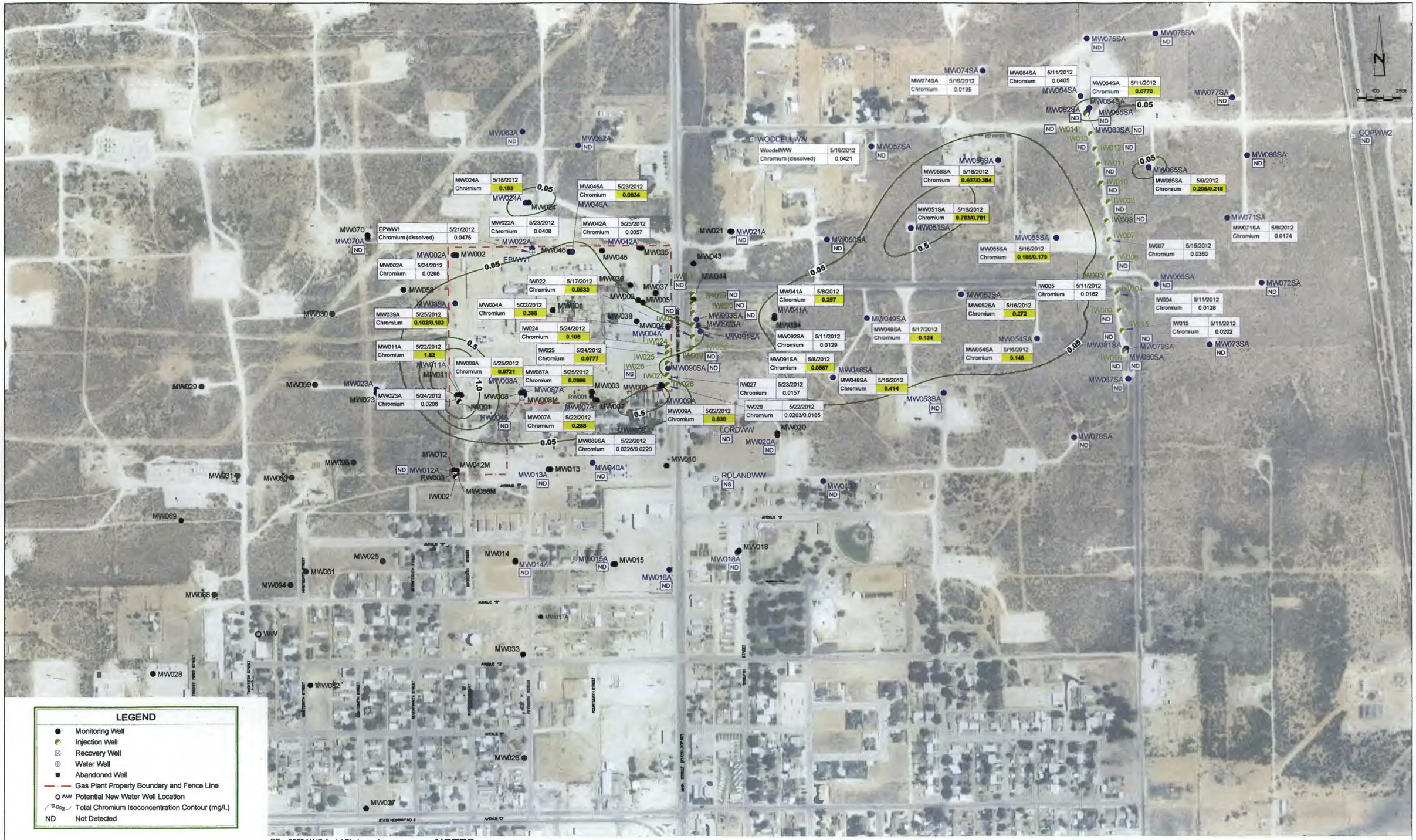
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

figure 8

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



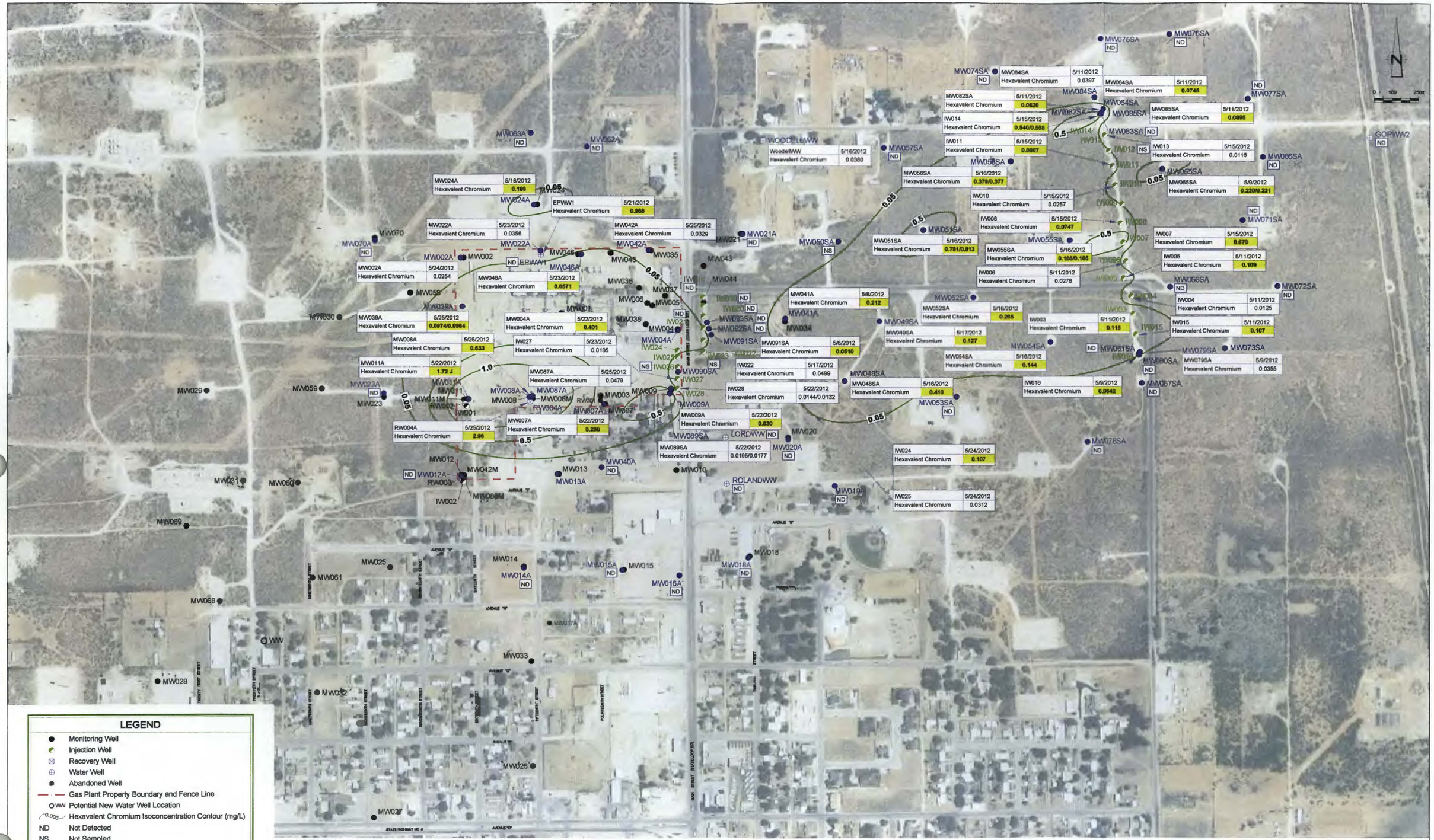
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 9
TOTAL CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL007 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.005 Hexavalent Chromium Isoconcentration Contour (mg/L)
- ND Not Detected
- NS Not Sampled

Sample ID — MW039A | 5/25/2012 — Sample Date
Constituent — Hexavalent Chromium | 0.097-0/0.0964 — Result (mg/L)
Parent Result (mg/L)

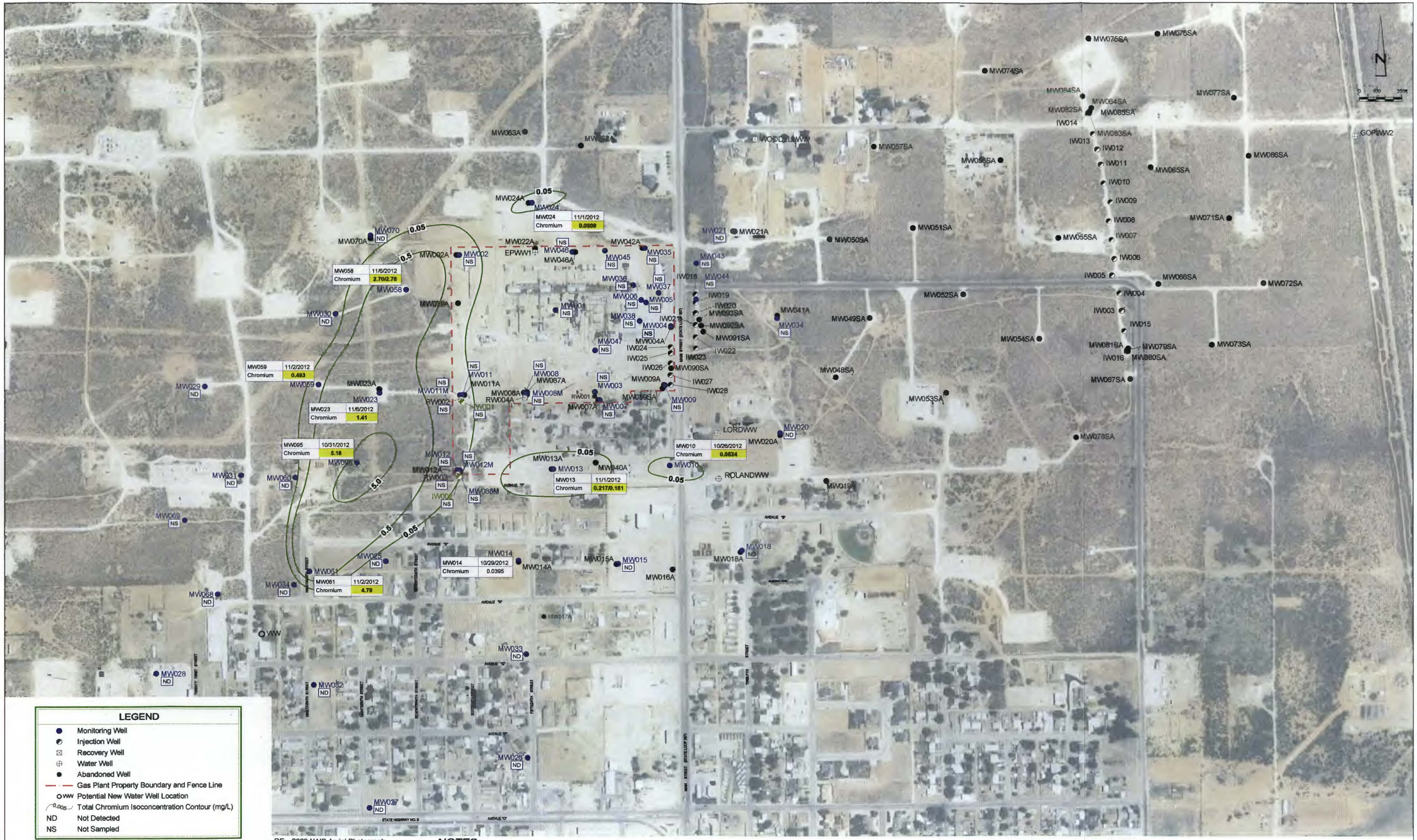
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

figure 10

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



RE: 2009 NAIP Aerial Photograph.

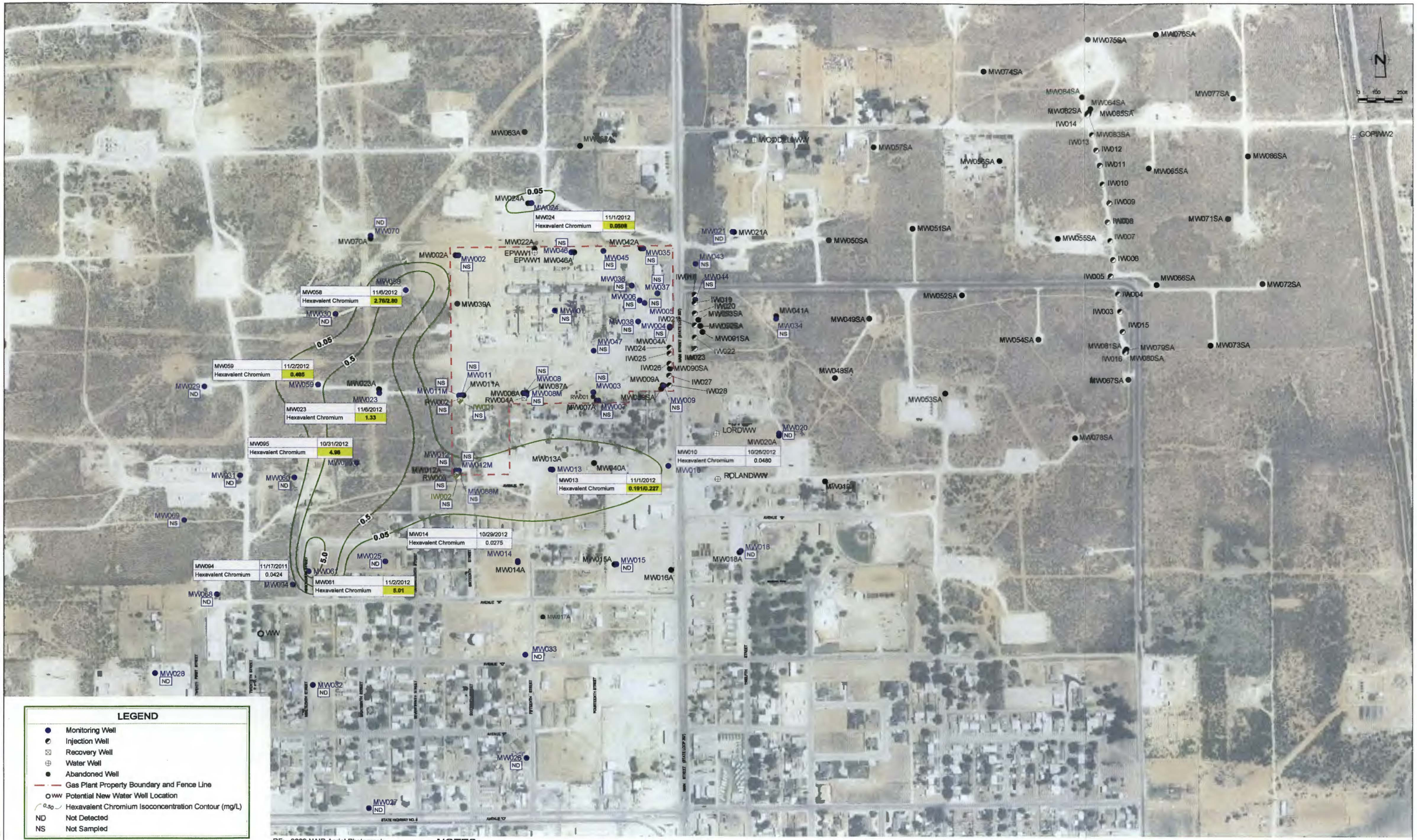
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 11

TOTAL CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL009 FEB 12/2013



RE: 2009 NAIP Aerial Photograph.

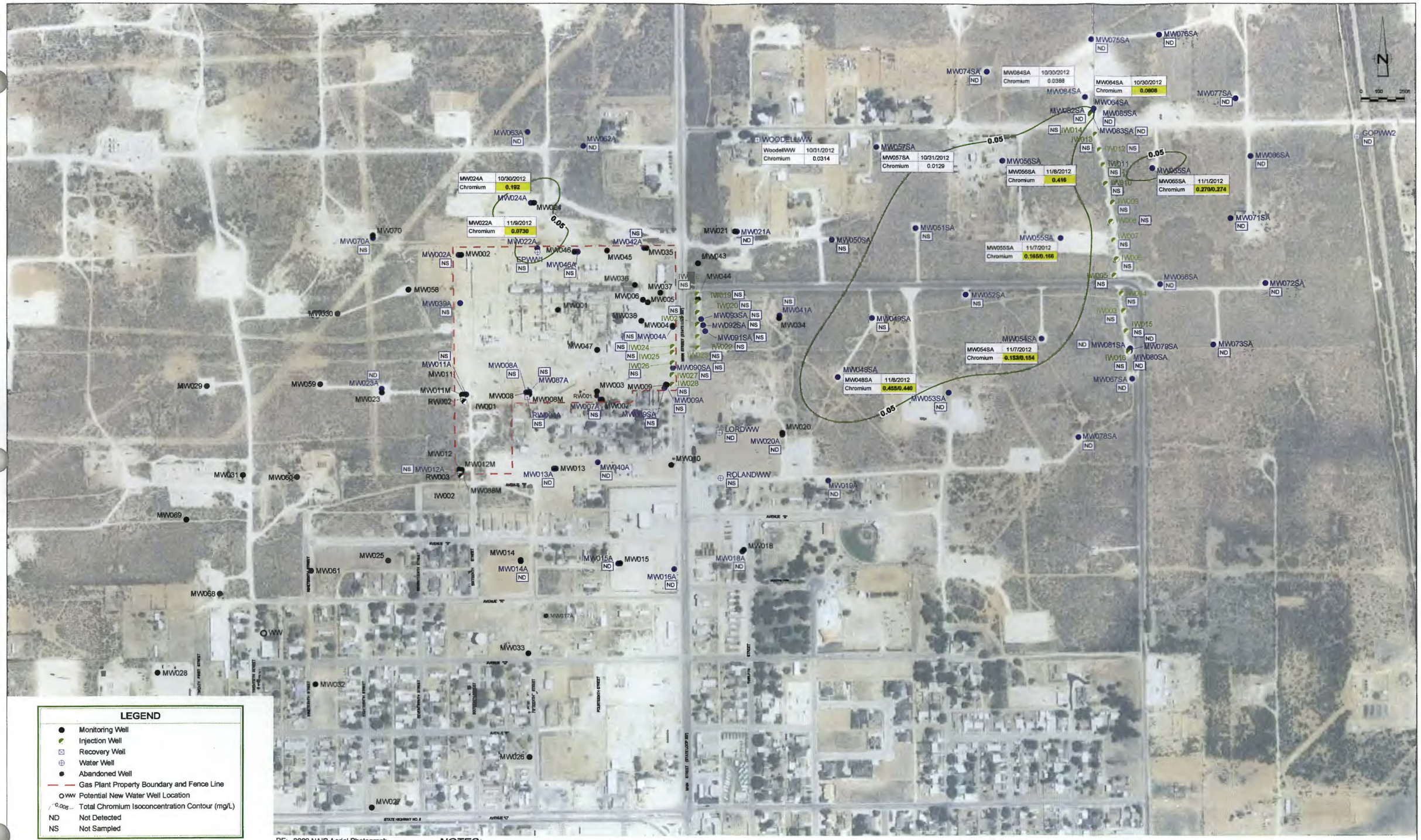
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

073018-2012/006IGN-DL010 FEB 12/2013

figure 12

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- WW Potential New Water Well Location
- 0.005 Total Chromium Isoconcentration Contour (mg/L)
- ND Not Detected
- NS Not Sampled

Sample ID — MW048SA — 11/8/2012 — Sample Date
Constituent — Chromium — 0.455/0.440 — Result (mg/L)
Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

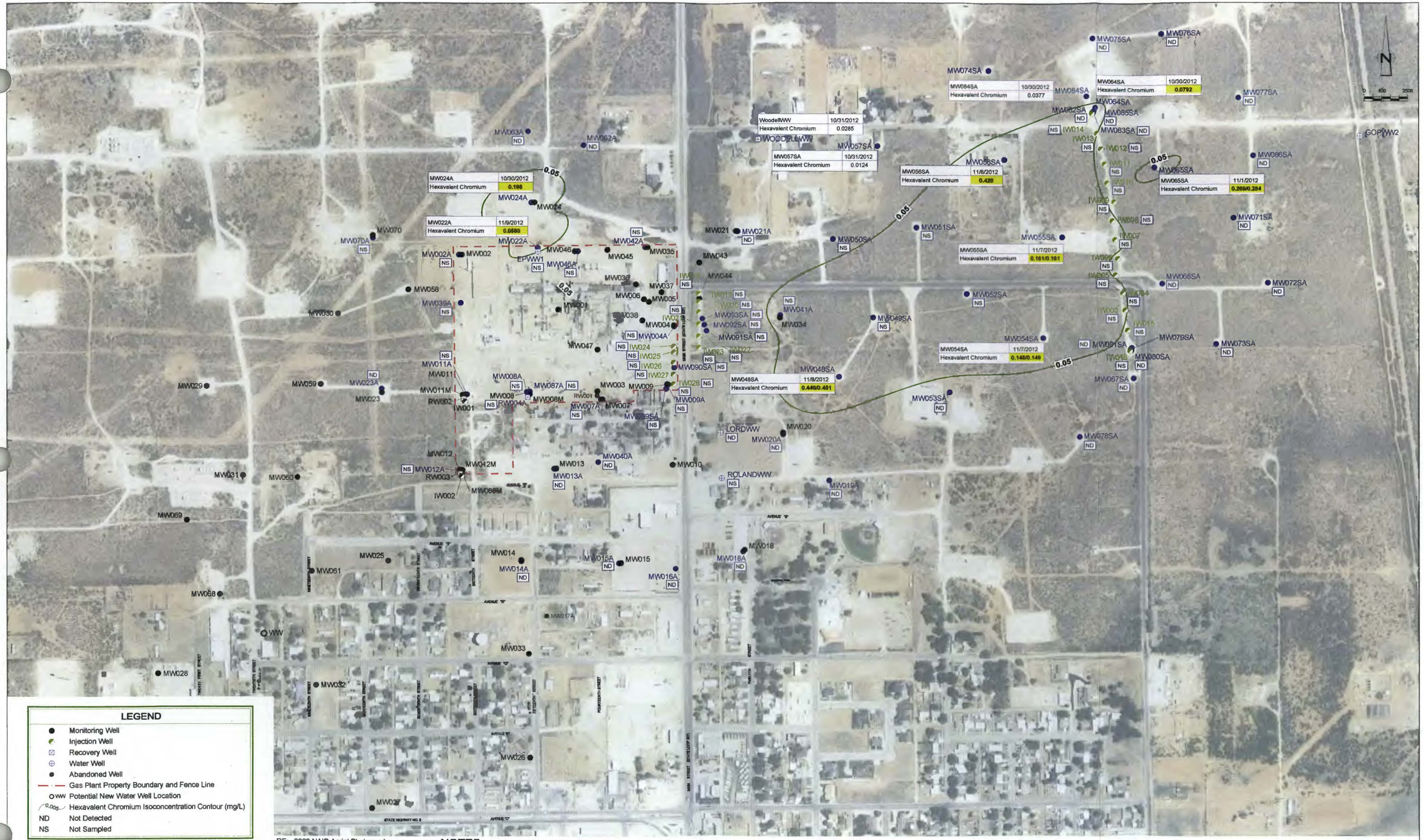
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 13

TOTAL CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL011 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- WW Potential New Water Well Location
- 0.005 Hexavalent Chromium Isoconcentration Contour (mg/L)
- ND Not Detected
- NS Not Sampled

Sample ID — MW048SA | 11/8/2012 — Sample Date
Constituent — Hexavalent Chromium | 0.449/0.451 — Result (mg/L)
Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

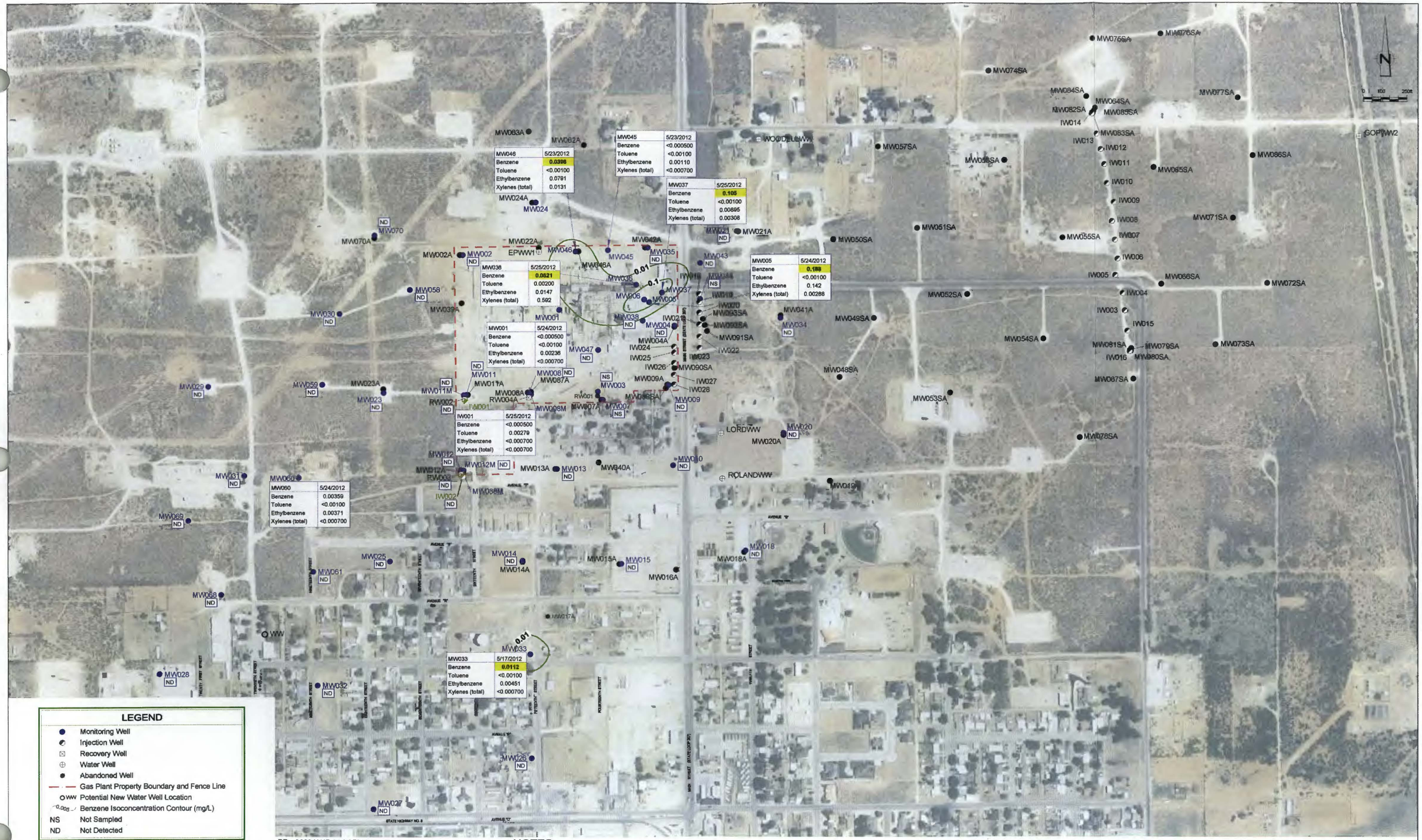
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

figure 14

HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL012 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.005 Benzene Isoconcentration Contour (mg/L)
- NS Not Sampled
- ND Not Detected

Sample ID — MW033 — 5/17/2012 — Sample Date
Constituent — Benzene — 0.0112
Toluene — <0.00100
Ethylbenzene — 0.00451
Xylenes (total) — <0.000700 — Duplicate Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

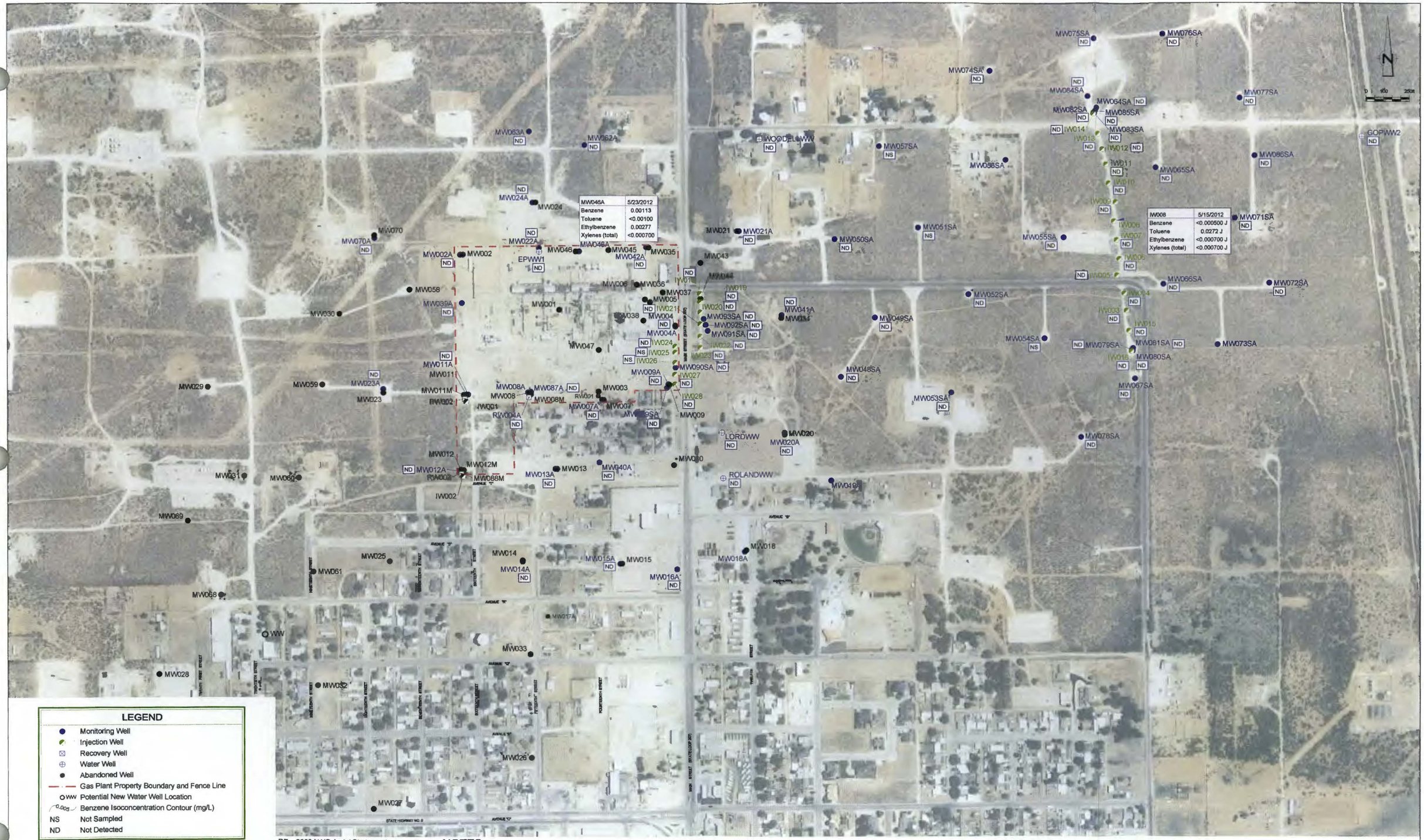
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceedances.

figure 15

BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL013 FEB 12/2013



RE: 2009 NAIP Aerial Photograph.

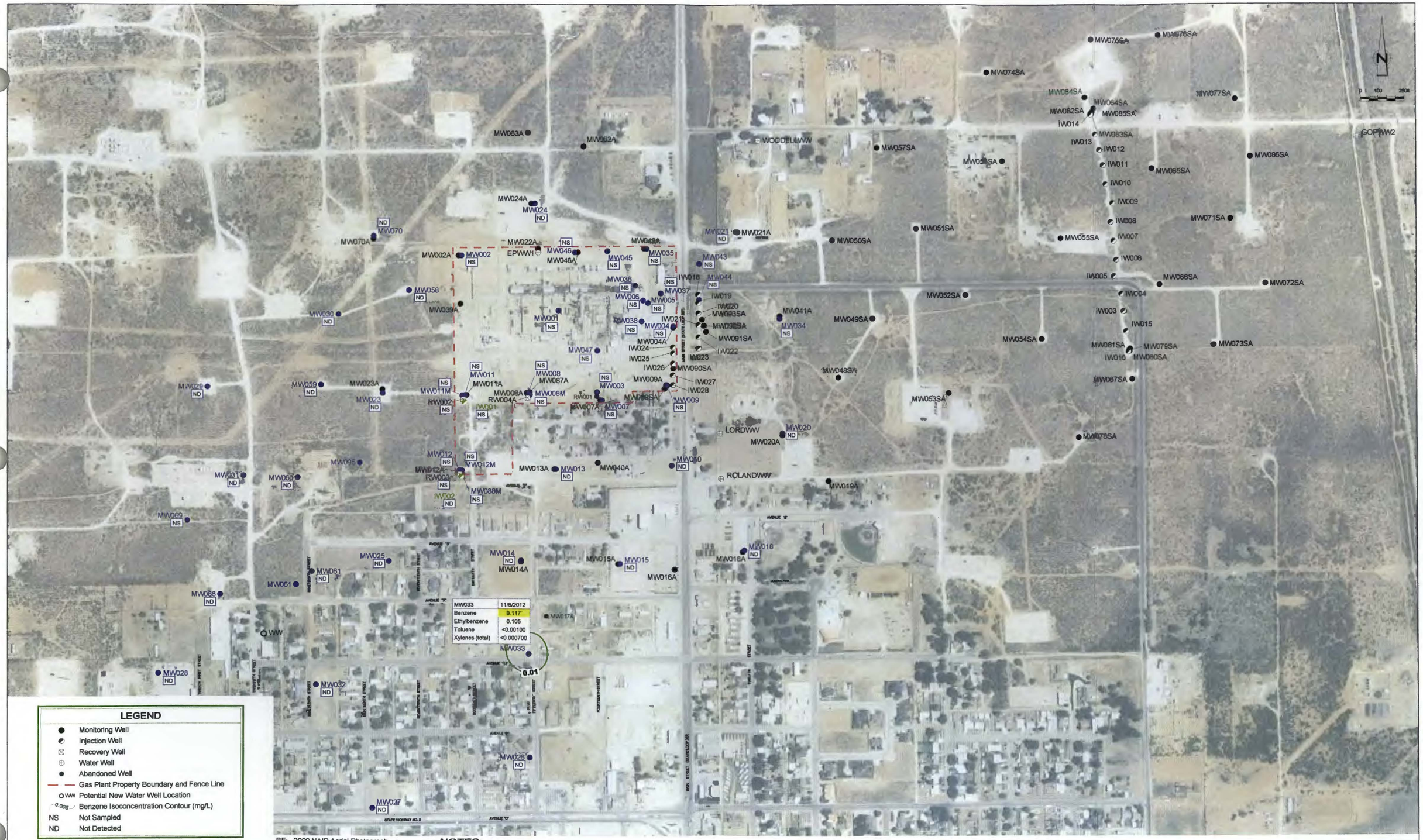
NOTES:

1. All results in mg/L.
2. There was no BTEX exceedances observed in the deep wells in May 2012.

figure 16

BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
DEEP WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL014 FEB 19/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- WW Potential New Water Well Location
- 0.005 Benzene Isoconcentration Contour (mg/L)
- NS Not Sampled
- ND Not Detected

Sample ID	MW033	Sample Date
Constituent	11/6/2012	
Benzene	0.117	
Ethylbenzene	0.105	
Toluene	<0.00100	
Xylenes (total)	<0.000700	Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

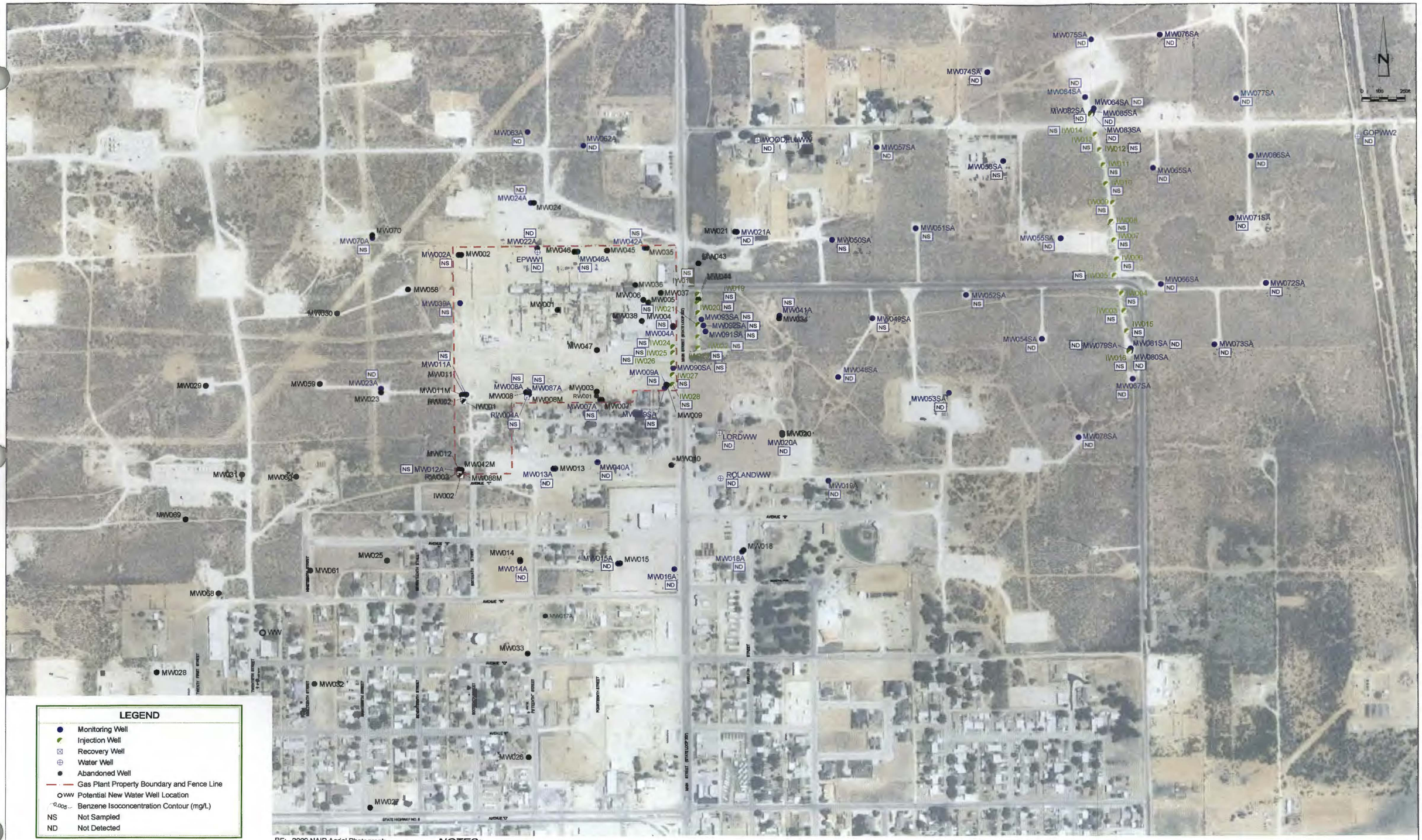
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceedances.

figure 17

BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL015 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- Potential New Water Well Location
- Benzene Isoconcentration Contour (mg/L)
- NS Not Sampled
- ND Not Detected

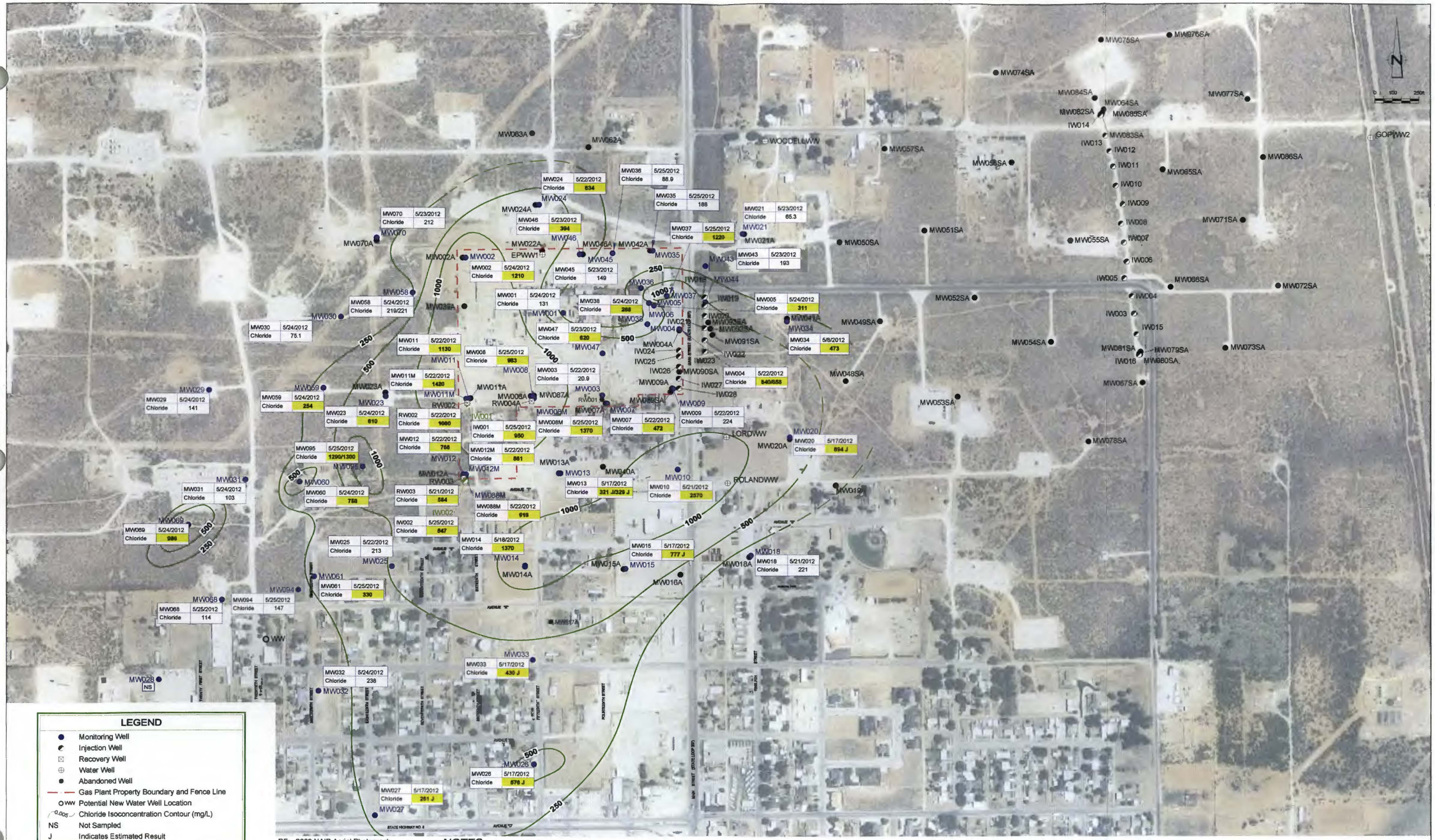
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. There were no BTEX detections observed in the deep well in November 2012.

figure 18

BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.005 Chloride Isoconcentration Contour (mg/L)
- NS Not Sampled
- J Indicates Estimated Result

Sample ID — MW095 — 5/25/2012 — Sample Date
Constituent — Chloride — 1290/1300 — Duplicate Result (mg/L)
Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Chloride of 250 mg/L.
3. Wells MW009, MW003 and MW025 were not honored in gradient.

figure 19

CHLORIDE ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

MW063A	5/18/2012
Chloride	58.0

MW062A	5/23/2012
Chloride	59.2

MW024A	5/18/2012
Chloride	669

MW046A	5/23/2012
Chloride	337

MW022A	5/23/2012
Chloride	62.9

MW042A	5/25/2012
Chloride	479

MW070A	5/23/2012
Chloride	45.3

MW002A	5/24/2012
Chloride	337

EPWW1	5/21/2012
Chloride	805

IW021	5/17/2012
Chloride	206 J

IW018	5/11/2012
Chloride	66.7 J

IW019	5/11/2012
Chloride	69.0 J

MW004A	5/22/2012
Chloride	620

IW020	5/17/2012
Chloride	98.8 J

MW041A	5/8/2012
Chloride	357

MW039A	5/25/2012
Chloride	202/194

IW024	5/24/2012
Chloride	608

IW025	5/24/2012
Chloride	501

MW092SA	5/11/2012
Chloride	184 J

MW093SA	5/11/2012
Chloride	244 J

MW011A	5/22/2012
Chloride	1380

IW026	5/23/2012
Chloride	513

MW091SA	5/8/2012
Chloride	187

MW023A	5/24/2012
Chloride	46.7

MW008A	5/25/2012
Chloride	912

MW087A	5/25/2012
Chloride	1170

MW090SA	5/23/2012
Chloride	297

IW027	5/23/2012
Chloride	364

IW022	5/17/2012
Chloride	216 J

IW023	5/18/2012
Chloride	536

IW028	5/22/2012
Chloride	200/202

MW007A	5/22/2012
Chloride	357 J

MW089SA	5/22/2012
Chloride	119/122

RW004A	5/25/2012
Chloride	480

MW009A	5/22/2012
Chloride	536 J

LordWW	5/18/2012
Chloride	1670

MW020A	5/17/2012
Chloride	492 J

MW012A	5/22/2012
Chloride	97.4

MW013A	5/17/2012
Chloride	76.0 J

MW040A	5/17/2012
Chloride	57.6 J

MW014A	5/18/2012
Chloride	56.2

MW015A	5/17/2012
Chloride	2730 J

MW016A	5/17/2012
Chloride	256 J

MW018A	5/21/2012
Chloride	219

MW019A	5/21/2012
Chloride	354

MW078SA	5/16/2012
Chloride	184 J

MW075SA	5/9/2012
Chloride	531

MW076SA	5/9/2012
Chloride	432

MW074SA	5/16/2012
Chloride	598 J

MW084SA	5/11/2012
Chloride	1180 J

MW064SA	5/11/2012
Chloride	689 J

MW082SA	5/11/2012
Chloride	758 J

MW085SA	5/11/2012
Chloride	646 J

MW077SA	5/9/2012
Chloride	536

IW014	5/15/2012
Chloride	1150 J/1140 J

MW083SA	5/11/2012
Chloride	1160 J

MW057SA	5/17/2012
Chloride	181 J

WoodellWW	5/16/2012
Chloride	579 J

IW013	5/15/2012
Chloride	1000 J

MW086SA	5/8/2012
Chloride	579

GOPWW2	5/8/2012
Chloride	1470

MW056SA	5/16/2012
Chloride	1390 J/1430 J

MW065SA	5/9/2012
Chloride	1060/1060

IW011	5/15/2012
Chloride	888 J

IW010	5/15/2012
Chloride	1090 J

IW008	5/15/2012
Chloride	986 J

MW051SA	5/16/2012
Chloride	1260 J/1280

MW055SA	5/16/2012
Chloride	614 J/611 J

MW071SA	5/8/2012
Chloride	109

IW007	5/15/2012
Chloride	884 J

MW050SA	5/17/2012
Chloride	1030 J

IW008	5/11/2012
Chloride	835 J

MW088SA	5/15/2012
Chloride	1150 J

MW052SA	5/16/2012
Chloride	1300 J

IW005	5/11/2012
Chloride	990 J

MW072SA	5/15/2012
Chloride	332 J

IW003	5/11/2012
Chloride	995 J

IW004	5/11/2012
Chloride	1190 J

MW049SA	5/17/2012
Chloride	1800 J

IW015	5/11/2012
Chloride	1000 J

MW054SA	5/16/2012
Chloride	803 J

MW081SA	5/9/2012
Chloride	497

MW073SA	5/15/2012
Chloride	245 J

MW079SA	5/9/2012
Chloride	527

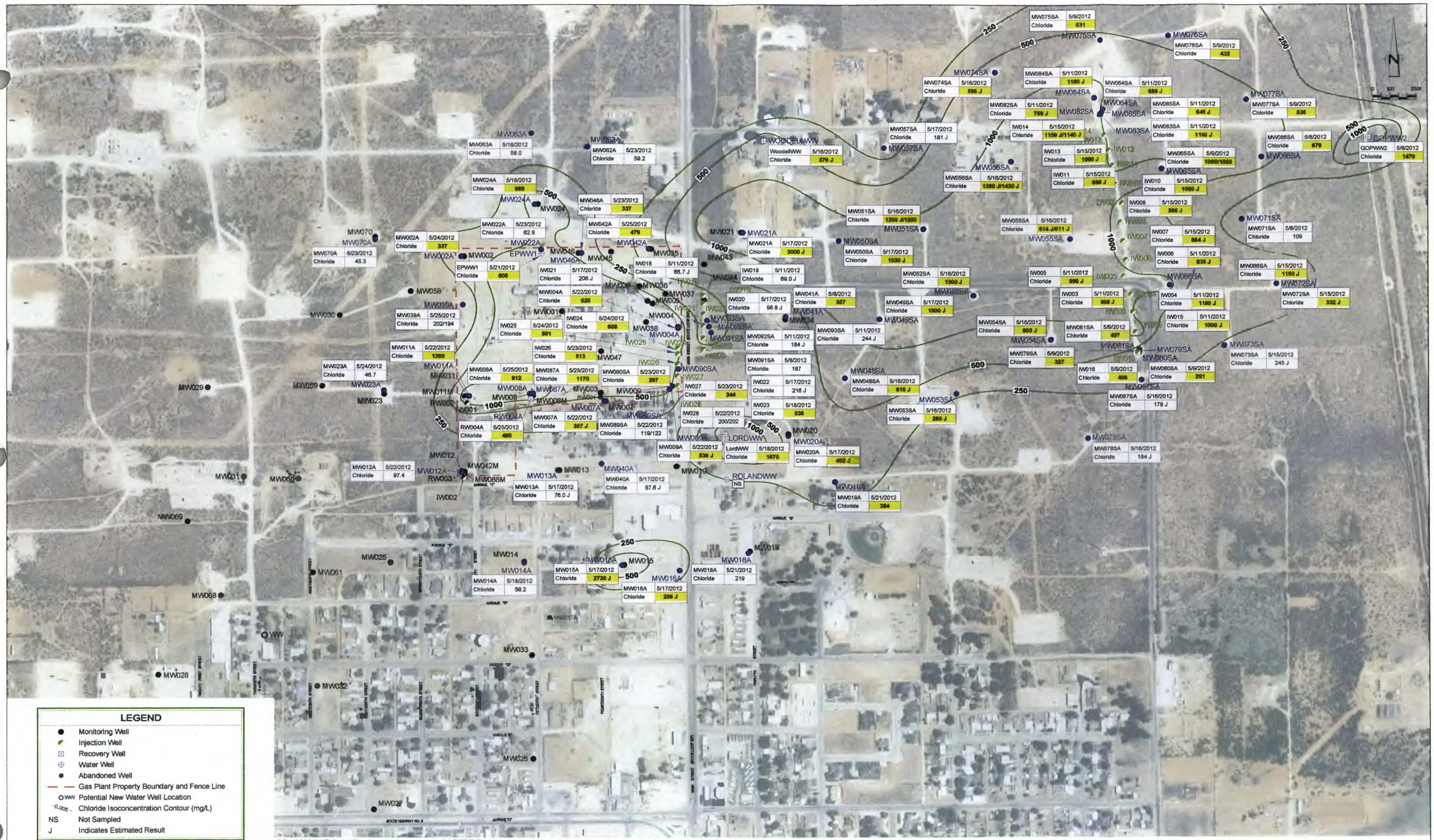
IW016	5/9/2012
Chloride	406

MW080SA	5/9/2012
Chloride	291

MW048SA	5/16/2012
Chloride	616 J

MW067SA	5/16/2012
Chloride	178 J

MW053SA	5/16/2012
Chloride	289 J



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- PNWW Potential New Water Well Location
- Chloride Isoconcentration Contour (mg/L)
- NS Not Sampled
- J Indicates Estimated Result

Sample ID — MW051SA — 5/16/2012 — Sample Date
Constituent — Chloride — 1260 J/1250 — Duplicate Result (mg/L)
Parent Result (mg/L)

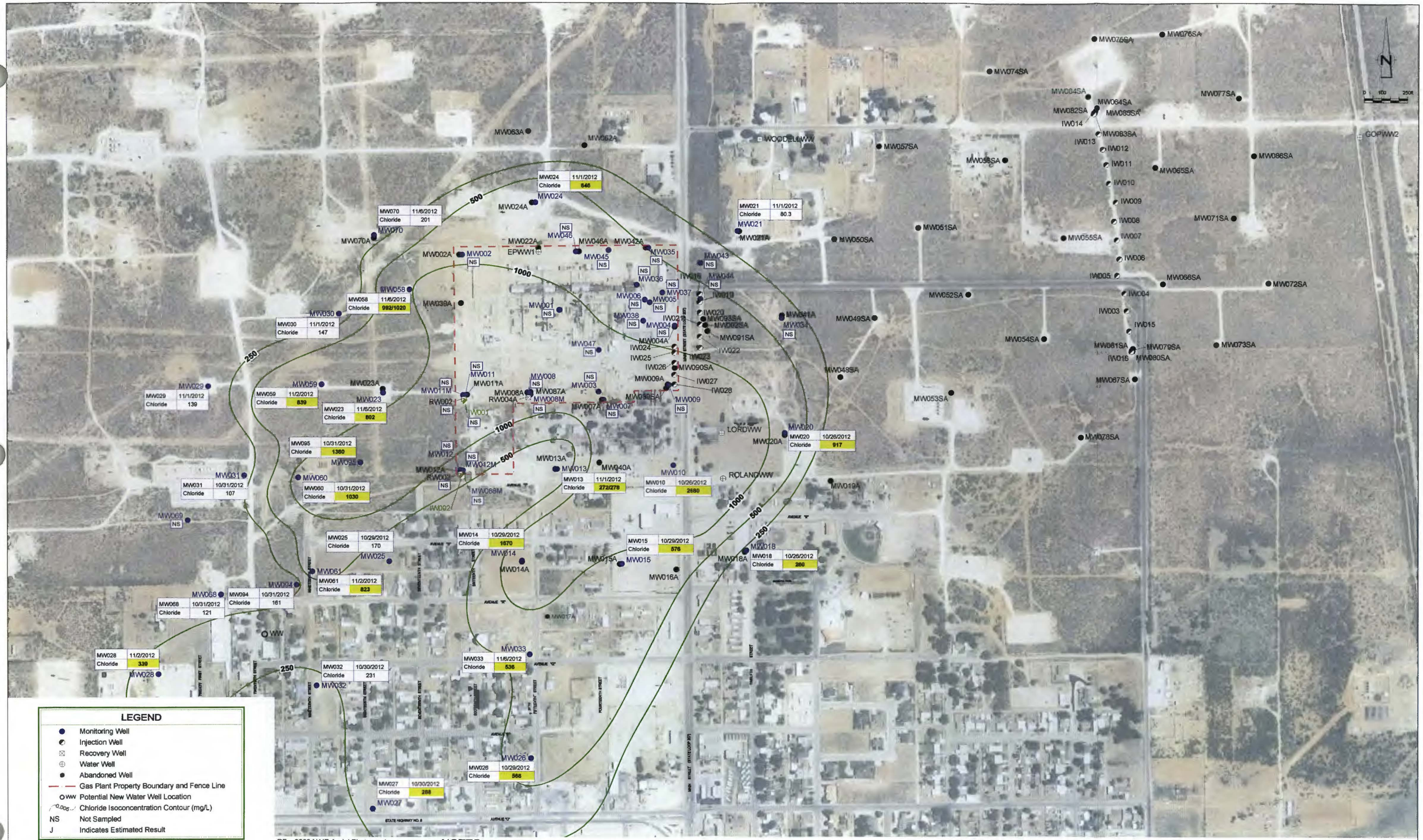
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Chloride of 250 mg/L.
3. Well MW022A was not honored in gradient.

figure 20

CHLORIDE ISOCONCENTRATION MAP
DEEP WELLS - MAY 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- 0.00g Chloride Isoconcentration Contour (mg/L)
- NS Not Sampled
- J Indicates Estimated Result

Sample ID — MW013 — 11/1/2012 — Sample Date
Constituent — Chloride — 272/278 — Duplicate Result (mg/L)
Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

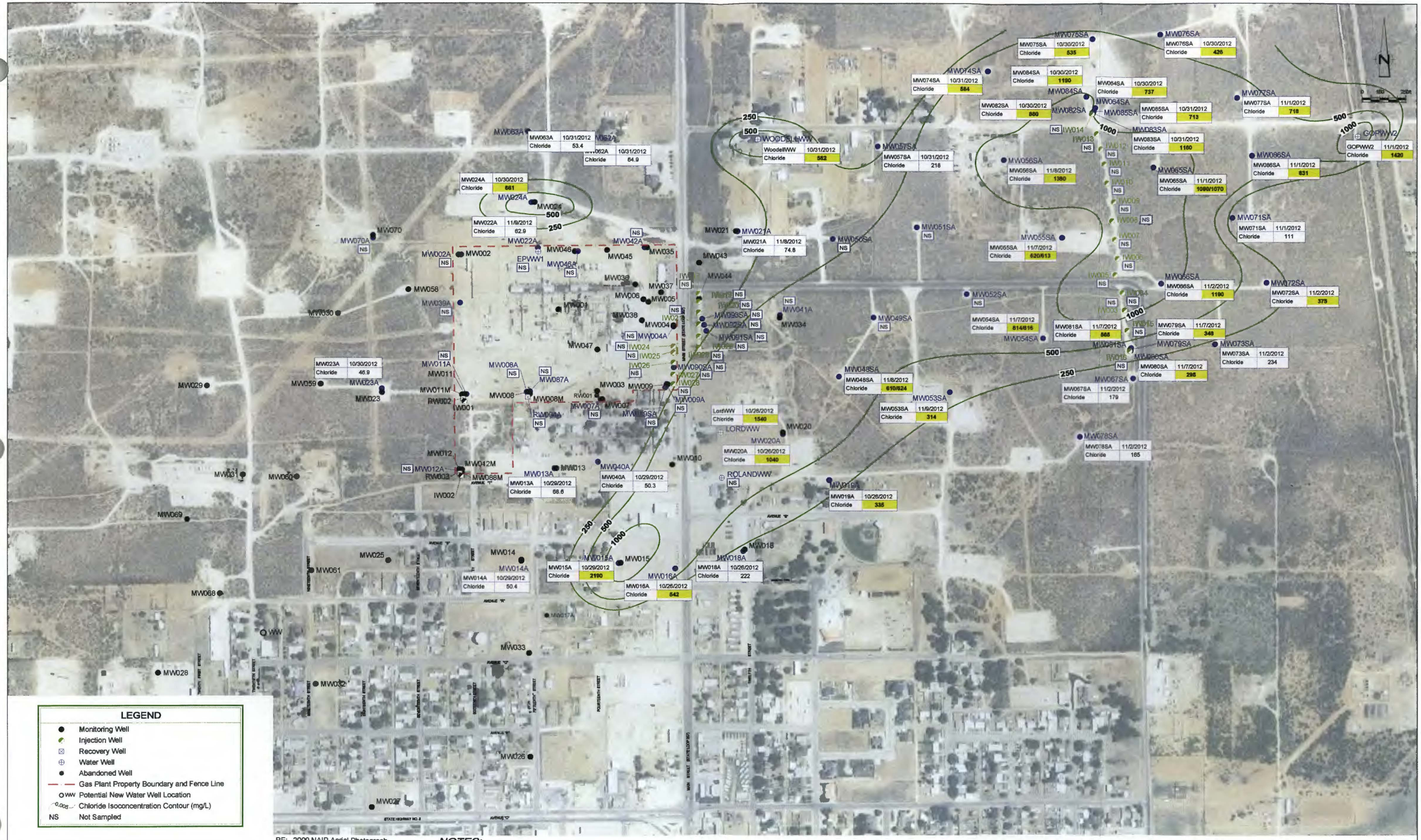
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMQCC Standards for Chloride of 250 mg/L.
3. Well MW025 was not honored in gradient.

figure 21

CHLORIDE ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL019 FEB 12/2013



LEGEND

- Monitoring Well
- Injection Well
- Recovery Well
- Water Well
- Abandoned Well
- Gas Plant Property Boundary and Fence Line
- OWW Potential New Water Well Location
- Chloride Isoconcentration Contour (mg/L)
- NS Not Sampled

Sample ID — MW048SA | 11/8/2012 — Sample Date
Constituent — Chloride | 610/624 — Duplicate Result (mg/L)
Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Chloride of 250 mg/L.

figure 22

CHLORIDE ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2012
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

MW-061	
DATE	5/25/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	330 mg/L

MW-011A	
DATE	5/22/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	1350 mg/L

IW-023	
DATE	5/18/2012
Benzene	<0.5 µg/L
Toluene	<0.00100 mg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	536 mg/L

MW-041A	
DATE	5/8/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	357 mg/L

MW-086SA	
DATE	5/8/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	679 mg/L

MW-011	
DATE	5/25/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	1130 mg/L

IW-025	
DATE	5/24/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	501 mg/L

MW-052SA	
DATE	5/16/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	1300 mg/L

MW-055SA	
DATE	5/16/2012
Benzene	<0.5 J/<0.5 J µg/L
Toluene	<1.0 J/<1.0 J µg/L
Ethylbenzene	<0.7 J/<0.7 J µg/L
Total Xylenes	<0.7 µg/L
Chloride	814 J /611 J mg/L

A (WEST)

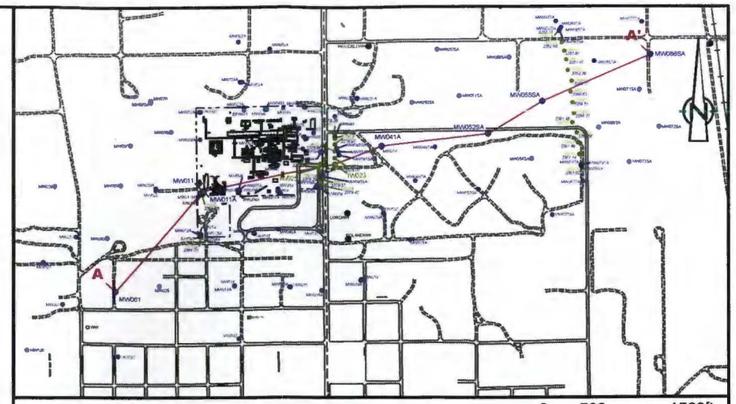
A' (EAST)

MW-061 MW-011 MW-011A B-B' IW-025 IW-023 MW-041A MW-052SA MW-055SA MW-086SA

GROUND SURFACE

3,440' MSL
3,430' MSL
3,420' MSL
3,410' MSL
3,400' MSL
3,390' MSL
3,380' MSL
3,370' MSL
3,360' MSL
3,350' MSL
3,340' MSL
3,330' MSL
3,320' MSL
3,310' MSL
3,300' MSL

0 800' 1,600' 2,400' 3,200' 4,000' 4,800' 5,600' 6,400'



CROSS SECTION AREA

0 500 1500ft

LEGEND

- INTERBEDDED SAND & SANDSTONE
- SAND AND GRAVEL
- SAND
- CLAY
- CLAY REDBED
- CALICHE
- WATER LEVEL (MAY 2012)

- WELL SCREEN
- BOTTOM OF WELL
- END OF BORING

MW-055SA	
DATE	5/8/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	679

WELL ID
SAMPLE DATE
BENZENE CONCENTRATION, µg/L
TOLUENE CONCENTRATION, µg/L
ETHYLBENZENE CONCENTRATION, µg/L
TOTAL XYLENES CONCENTRATION, µg/L
CHLORIDE CONCENTRATION, mg/L

µg/L MICROGRAMS PER LITER
mg/L MILLIGRAMS PER LITER

NOTE: HIGHLIGHTED VALUES EXCEED NMWQCC STANDARDS.

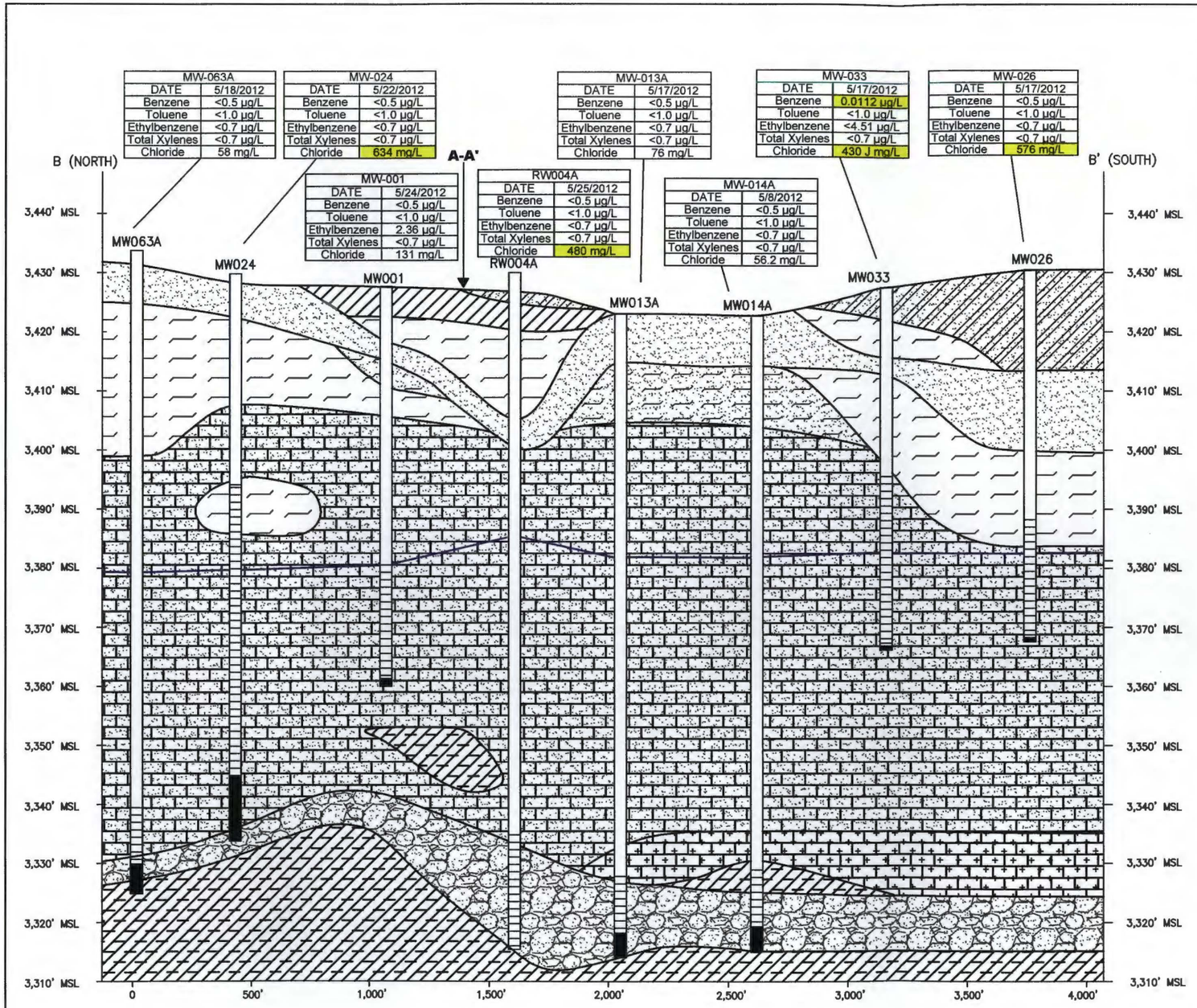
0 10 20ft
VERTICLE SCALE

0 400 800ft
HORIZONTAL SCALE

figure 23

MAY 2012 GEOLOGIC CROSS SECTION A-A'
FORMER EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

073018-2012(006)GN-DL021 FEB 19/2013



MW-063A	
DATE	5/18/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	58 mg/L

MW-024	
DATE	5/22/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	634 mg/L

MW-001	
DATE	5/24/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	2.36 µg/L
Total Xylenes	<0.7 µg/L
Chloride	131 mg/L

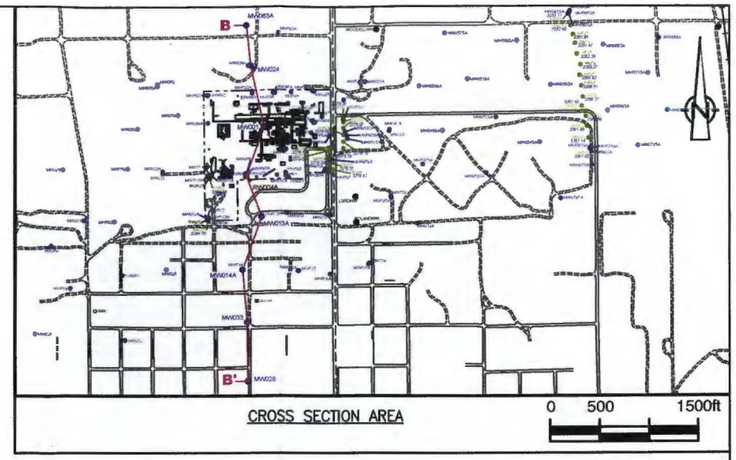
RW004A	
DATE	5/25/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	480 mg/L

MW-013A	
DATE	5/17/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	76 mg/L

MW-014A	
DATE	5/8/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	56.2 mg/L

MW-033	
DATE	5/17/2012
Benzene	0.0112 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<4.51 µg/L
Total Xylenes	<0.7 µg/L
Chloride	430 J mg/L

MW-026	
DATE	5/17/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	576 mg/L



LEGEND

- INTERBEDDED SAND & SANDSTONE
- INTERBEDDED SAND, CALICHE, AND SANDSTONE
- INTERBEDDED SAND, RED SHALE, AND SANDSTONE
- SAND
- SILTY SAND
- SAND AND GRAVEL
- CLAY REDBED
- CALICHE
- WATER LEVEL (MAY 2012)
- WELL SCREEN
- BOTTOM OF WELL
- END OF BORING

MW-026	WELL ID
DATE	5/17/2012 SAMPLE DATE
Benzene	<0.5 µg/L BENZENE CONCENTRATION, ug/L
Toluene	<1.0 µg/L TOLUENE CONCENTRATION, ug/L
Ethylbenzene	<0.7 µg/L ETHYLBENZENE CONCENTRATION, ug/L
Total Xylenes	<0.7 µg/L TOTAL XYLENES CONCENTRATION, ug/L
Chloride	576 mg/L CHLORIDE CONCENTRATION, mg/L

ug/L MICROGRAMS PER LITER

mg/L MILLIGRAMS PER LITER

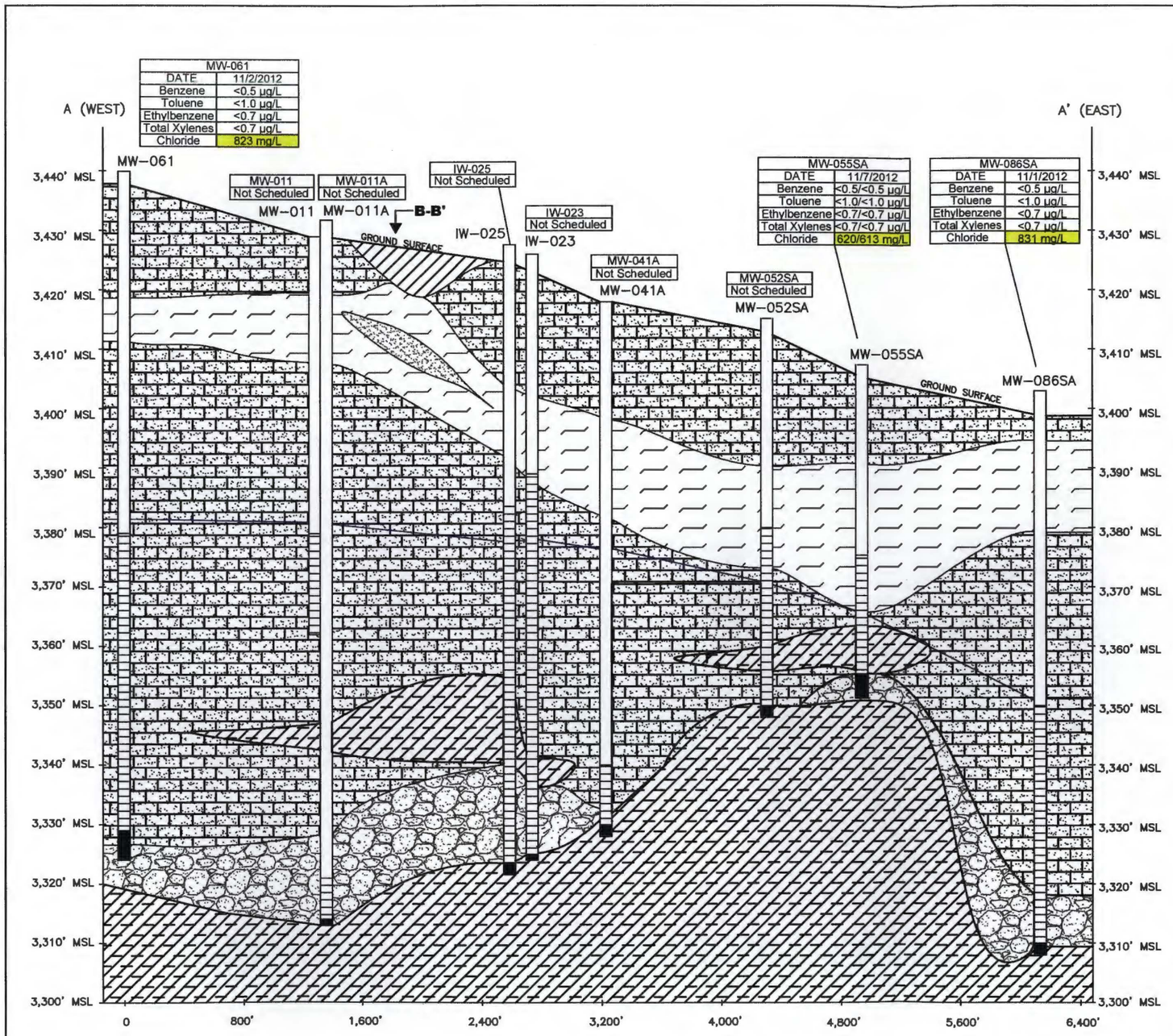
NOTE: HIGHLIGHTED VALUES EXCEED NMWQCC STANDARDS.

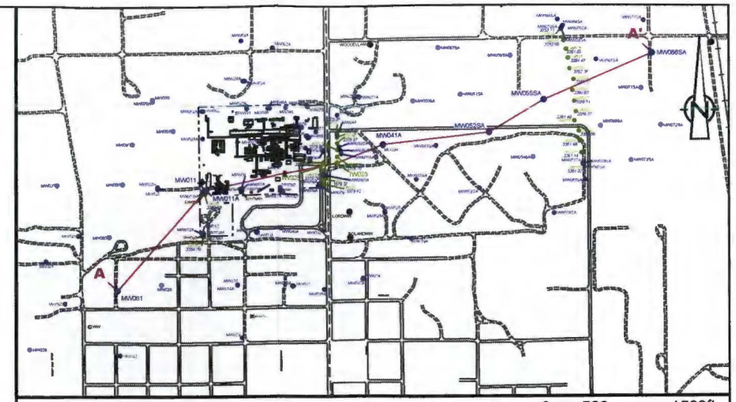
0 10 20ft
VERTICLE SCALE

0 200 500ft
HORIZONTAL SCALE

figure 24

MAY 2012 GEOLOGIC CROSS SECTION B-B'
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

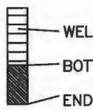




CROSS SECTION AREA

LEGEND

- INTERBEDDED SAND & SANDSTONE
- SAND AND GRAVEL
- SAND
- CLAY
- CLAY REDBED
- CALICHE
- WATER LEVEL (NOVEMBER 2012)



MW-086SA	
DATE	11/1/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	831 mg/L

WELL ID
SAMPLE DATE
BENZENE CONCENTRATION, ug/L
TOLUENE CONCENTRATION, ug/L
ETHYLBENZENE CONCENTRATION, ug/L
TOTAL XYLENES CONCENTRATION, ug/L
CHLORIDE CONCENTRATION, mg/L

ug/L MICROGRAMS PER LITER
mg/L MILLIGRAMS PER LITER

NOTE: HIGHLIGHTED VALUES EXCEED NMWQCC STANDARDS.

0 10 20ft
VERTICLE SCALE

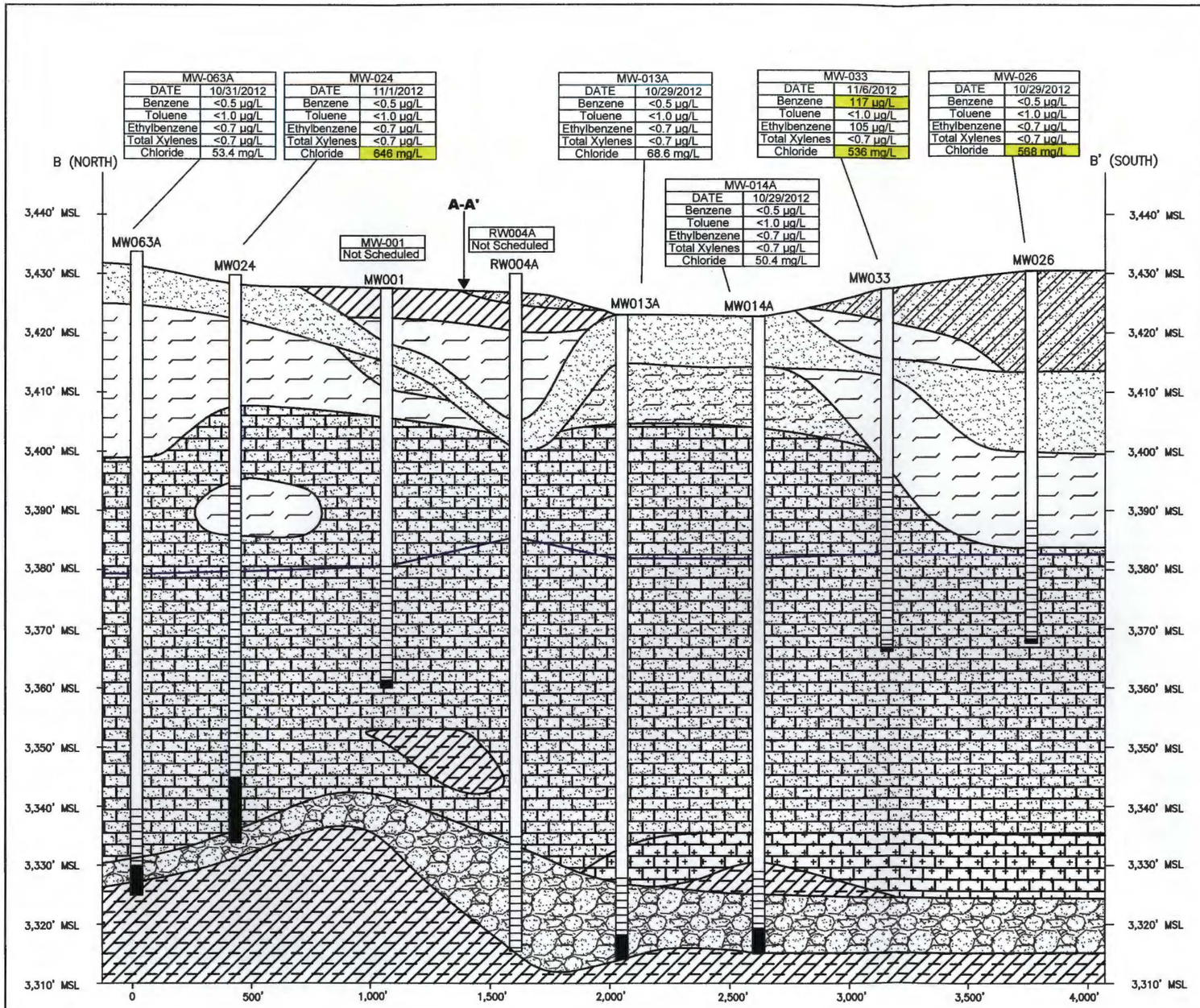
0 400 800ft
HORIZONTAL SCALE

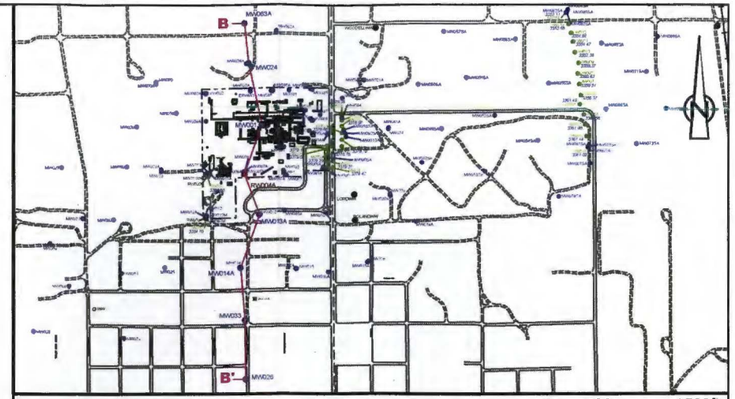
figure 25

NOVEMBER 2012 GEOLOGIC CROSS SECTION A-A'
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

CRA

073018-2012(006)GN-DL023 FEB 19/2013





LEGEND

- INTERBEDDED SAND & SANDSTONE
- INTERBEDDED SAND, CALICHE, AND SANDSTONE
- INTERBEDDED SAND, RED SHALE, AND SANDSTONE
- SAND
- SILTY SAND
- SAND AND GRAVEL
- CLAY REDBED
- CALICHE
- WATER LEVEL (NOVEMBER 2012)
- WELL SCREEN
- BOTTOM OF WELL
- END OF BORING

MW-026	
DATE	10/29/2012
Benzene	<0.5 µg/L
Toluene	<1.0 µg/L
Ethylbenzene	<0.7 µg/L
Total Xylenes	<0.7 µg/L
Chloride	568 mg/L

WELL ID
SAMPLE DATE
BENZENE CONCENTRATION, ug/L
TOLUENE CONCENTRATION, ug/L
ETHYLBENZENE CONCENTRATION, ug/L
TOTAL XYLENES CONCENTRATION, ug/L
CHLORIDE CONCENTRATION, mg/L

ug/L MICROGRAMS PER LITER
mg/L MILLIGRAMS PER LITER

NOTE: HIGHLIGHTED VALUES EXCEED NMWQCC STANDARDS.

0 10 20ft
VERTICLE SCALE

0 200 500ft
HORIZONTAL SCALE

figure 26

NOVEMBER 2012 GEOLOGIC CROSS SECTION B-B'
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

CRA

073018-2012(006)GN-DL024 FEB 19/2013

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
Shallow Monitor Wells						
MW001 *3428.57*	4"	5/6/11 11/1/11 5/3/12 10/23/12	49.05 48.47 48.57 48.75	3,379.52 3,380.10 3,380.00 3,379.82		48-68
MW002 *3432.17*	4"	5/6/11 11/2/11 5/3/12 10/24/12	51.84 51.89 51.99 52.12	3,380.33 3,380.28 3,380.18 3,380.05		48-68
MW003 *3428.27*	4"	5/6/11 11/1/11 5/4/12 10/23/12	47.75 47.90 48.13 48.33	3,380.52 3,380.37 3,380.14 3,379.94		48-68
MW004 *3423.38*	4"	5/6/11 11/1/11 5/4/12 10/23/12	44.29 44.52 44.63 44.94	3,379.09 3,378.86 3,378.75 3,378.44		465-66.5
MW005 *3424.77*	4"	5/5/11 11/1/11 5/22/12 10/25/12	45.35 45.13 45.76 48.64	3,379.42 3,379.64 3,379.01 3,376.13		48-68
MW006 *3425.26*	4"	5/5/11 11/2/11 5/22/12 10/25/12	46.75 45.55 46.1 46.09	3,378.51 3,379.71 3,379.16 3,379.17		48-68
MW007 *3428.39*	4"	5/6/11 11/1/11 5/4/12 10/23/12	47.90 48.01 48.25 48.52	3,380.49 3,380.38 3,380.14 3,379.87		46.3-66.3
MW008 *3430.13*	4"	5/6/11 11/1/11 5/4/12 10/23/12	49.30 49.45 49.58 49.75	3,380.83 3,380.68 3,380.55 3,380.38		46.6-66.1
MW008M *3427.95*	4"	5/3/11 11/2/11 5/4/12 10/23/12	49.55 49.69 49.84 50.02	3,378.40 3,378.26 3,378.11 3,377.93		75-85

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW009	4"	5/6/11	48.02	3,379.61		46.6-66.6
3427.63		11/1/11	48.24	3,379.39		
		5/3/12	48.35	3,379.28		
		10/23/12	48.6	3,379.03		
MW010	4"	5/3/11	39.36	3,380.06		44.75-65.10
3419.42		11/1/11	49.50	3,369.92		
		5/1/12	39.51	3,379.91		
		10/24/12	39.77	3,379.65		
MW011	4"	5/6/11	50.60	3,380.89		47-67
3431.49		11/2/11	50.71	3,380.78		
		5/3/12	50.8	3,380.69		
		10/23/12	50.91	3,380.58		
MW011M	4"	5/6/11	50.33	3,380.88		80-90
3431.21		11/1/11	50.47	3,380.74		
		5/3/12	50.54	3,380.67		
		10/23/12	50.68	3,380.53		
MW012	4"	5/6/11	48.87	3,380.64		44-64.5
3429.51		11/2/11	48.47	3,381.04		
		5/3/12	48.57	3,380.94		
		10/24/12	48.65	3,380.86		
MW012M	4"	5/4/11	49.11	3,380.95		80-90
3430.06		11/2/11	49.06	3,381.00		
		5/3/12	49.18	3,380.88		
		10/24/12	49.28	3,380.78		
MW013	4"	5/4/11	43.30	3,379.81		40-60
3423.11		11/1/11	43.30	3,379.81		
		5/1/12	43.4	3,379.71		
		10/24/12	43.61	3,379.50		
MW014	4"	5/3/11	42.56	3,381.52		45-65
3424.08		11/1/11	42.89	3,381.19		
		5/1/12	42.91	3,381.17		
		10/24/12	43.12	3,380.96		
MW015	4"	5/3/11	39.51	3,380.89		35-55
3420.40		11/1/11	39.58	3,380.82		
		5/1/12	39.61	3,380.79		
		10/24/12	39.87	3,380.53		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW018	4"	5/3/11	SWA			35-55
3417.15		11/1/11	37.11	3,380.04		
		5/22/12	37.35	3,379.80		
		10/24/12	37.24	3,379.91		
MW020	4"	5/3/11	42.99	3,377.86		35-55
3420.85		11/1/11	43.70	3,377.15		
		5/2/12	43.3	3,377.55		
		10/24/12	43.48	3,377.37		
MW021	4"	5/4/11	45.23	3,377.49		40-55
3422.72		11/1/11	46.07	3,376.65		
		5/2/12	46.11	3,376.61		
		10/24/12	46.52	3,376.20		
MW023	4"	5/5/11	55.26	3,381.18		46-66
3436.44		11/1/11	55.53	3,380.91		
		5/24/12	55.63	3,380.81		
		10/25/12	55.72	3,380.72		
MW024	4"	5/4/11	51.60	3,379.72		36-86
3431.32		11/1/11	51.77	3,379.55		
		5/1/12	51.76	3,379.56		
		10/24/12	51.89	3,379.43		
MW025	4"	5/3/11	51.30	3,381.34		45-65
3432.64		11/1/11	51.25	3,381.39		
		5/1/12	51.38	3,381.26		
		10/25/12	51.53	3,381.11		
MW026	4"	5/3/11	50.76	3,381.28		43-63
3432.04		11/1/11	50.78	3,381.26		
		5/3/12	50.83	3,381.21		
		10/25/12	51.08	3,380.96		
MW027	4"	5/3/11	62.57	3,380.76		51-71
3443.33		11/1/11	62.57	3,380.76		
		5/17/12	62.65	3,380.68		
		10/24/12	62.67	3,380.66		
MW028	4"	5/3/11	70.66	3,380.97		63-83
3451.63		11/1/11	70.76	3,380.87		
		10/24/12	70.92	3,380.71		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW029 *3446.89*	4"	5/4/11 11/1/11 10/24/12 5/1/12	65.85 65.81 65.8 65.8	3,381.04 3,381.08 3,381.09 3,381.09		60-80
MW030 *3439.84*	4"	5/4/11 11/1/11 5/1/12 10/24/12	59.23 59.17 59.17 59.2	3,380.61 3,380.67 3,380.67 3,380.64		55-75
MW031 *3440.68*	4"	5/4/11 11/1/11 5/1/12 10/24/12	59.89 59.79 59.88 59.91	3,380.79 3,380.89 3,380.80 3,380.77		54-74
MW032 *3442.22*	4"	5/3/11 11/1/11 5/24/12 10/24/12	60.91 62.91 61.12 61.08	3,381.31 3,379.31 3,381.10 3,381.14		48-68
MW033 *3428.86*	4"	5/3/11 11/2/11 5/24/12 10/25/12	47.40 47.50 47.56 47.79	3,381.46 3,381.36 3,381.30 3,381.07		32-62
MW034 *3418.76*	4"	5/4/11 11/1/11 5/8/12 10/24/12	41.95 42.26 42.33 42.61	3,376.81 3,376.50 3,376.43 3,376.15		42-62
MW035 *3427.39*	4"	5/6/11 11/1/11 5/3/12 10/24/12	46.18 48.79 48.8 49.16	3,381.21 3,378.60 3,378.59 3,378.23		42-62
MW036 *3425.49*	4"	5/6/11 11/2/11 5/22/12 10/24/12	46.00 46.22 46.48 46.82	3,379.49 3,379.27 3,379.01 3,378.67		42-62
MW037 *3423.71*	4"	5/6/11 11/2/11 5/3/12 10/23/12	44.55 44.86 45 45.31	3,379.16 3,378.85 3,378.71 3,378.40		42-62
MW038 *3425.23*	4"	5/3/11 11/2/11 5/4/12 10/23/12	45.67 45.63 46.01 46.29	3,379.56 3,379.60 3,379.22 3,378.94		42-62

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW043	4"	5/4/11	45.58	3,377.99		42-62
3423.57		11/1/11	46.20	3,377.37		
		5/2/12	46.24	3,377.33		
		10/24/12	46.58	3,376.99		
MW044	4"	5/4/11	41.79	3,378.62		40-60
3420.41		11/1/11	42.05	3,378.36		
		10/24/12	42.56	3,377.85		
MW045	4"	5/6/11	46.05	3,379.48		46-66
3425.53		11/2/11	45.92	3,379.61		
		5/3/12	46.53	3,379.00		
		10/24/12	46.85	3,378.68		
MW046	4"	5/6/11	47.20	3,379.61		46-66
3426.81		11/2/11	46.98	3,379.83		
		5/3/12	47.53	3,379.28		
		10/24/12	47.79	3,379.02		
MW047	4"	5/6/11	47.33	3,380.32		46-66
3427.65		11/1/11	47.51	3,380.14		
		5/22/12	47.65	3,380.00		
		10/23/12	47.9	3,379.75		
MW058	4"	5/5/11	56.50	3,380.63		49-109
3437.13		11/1/11	56.51	3,380.62		
		5/1/12	56.5	3,380.63		
		10/24/12	56.57	3,380.56		
MW059	4"	5/4/11	61.27	3,380.97		45-105
3442.24		11/1/11	61.24	3,381.00		
		5/4/12	61.32	3,380.92		
		10/25/12	61.4	3,380.84		
MW060	4"	5/4/11	56.57	3,381.13		40-100
3437.70		11/1/11	56.50	3,381.20		
		5/1/12	56.59	3,381.11		
		10/24/12	56.62	3,381.08		
MW061	4"	5/3/11	58.55	3,381.31		48.5-108.5
3439.86		11/1/11	58.48	3,381.38		
		5/1/12	58.67	3,381.19		
		10/24/12	58.72	3,381.14		
MW068	4"	5/3/11	66.87	3,381.21		45-110
3448.08		11/1/11	66.85	3,381.23		
		5/2/12	67.04	3,381.04		
		10/24/12	67.03	3,381.05		
MW069	4"	5/4/11	63.82	3,380.25		45-110
3444.07		11/1/11	62.95	3,381.12		
		5/1/12	63.04	3,381.03		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW070 *3439.68*	4"	5/4/11 11/1/11 5/1/12 10/24/12	59.06 59.09 59 59.02	3,380.62 3,380.59 3,380.68 3,380.66		48-93
MW088M *3430.27*	4"	5/3/11 11/2/11 5/3/12 10/24/12	49.60 49.57 49.72 49.81	3,380.67 3,380.70 3,380.55 3,380.46		50-90
MW094 *3443.15*	4"	11/1/11 5/1/12	61.82 61.99	3,381.33	100.50	40.5-100.5
MW095 *3436.13*	4"	11/1/11 5/1/12	55.05 55.13	3,381.08	90.00	40-90
RW002 *3431.66*	6	5/5/11 11/2/11 5/3/12 10/23/12	50.80 48.72 50.99 51.15	3,380.86 3,382.94 3,380.67 3,380.51		48-68
RW003 *3429.82*	4	5/5/11 11/2/11 5/3/12 10/24/12	48.78 49.13 48.92 48.96	3,381.04 3,380.69 3,380.90 3,380.86		45-65
IW001 *3431.91*	4	5/5/11 11/2/11 5/3/12 10/23/12	49.05 47.28 49.25 49.35	3,382.86 3,384.63 3,382.66 3,382.56		40-90
IW002 *3430.33*	4	5/5/11 11/2/11 5/3/12 10/24/12	46.98 50.86 47.35 47.42	3,383.35 3,379.47 3,382.98 3,382.91		40-90
Deep Monitor Wells						
MW002A *3432.3*	4	5/6/11 11/4/11 5/3/12 10/24/12	51.84 51.86 51.95 52.1	3,380.46 3,380.44 3,380.35 3,380.20		103-123
MW004A *3423.57*	4	5/6/11 11/4/11 5/22/12 10/23/12	44.50 44.74 44.85 45.25	3,379.07 3,378.83 3,378.72 3,378.32		94.2-104.2
MW007A *3428.13*	4	5/6/11 11/4/11 5/4/12 10/23/12	47.68 47.63 48.02 48.23	3,380.45 3,380.50 3,380.11 3,379.90		96.5-106.65

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW008A *3430.01*	4	5/6/11 11/4/11 5/4/12 10/23/12	49.40 49.24 49.62 49.59	3,380.61 3,380.77 3,380.39 3,380.42		105.5-113.4
MW009A *3427.48*	4	5/6/11 11/4/11 5/3/12 10/23/12	47.81 48.02 48.16 48.4	3,379.67 3,379.46 3,379.32 3,379.08		93-100.6
MW011A *3431.77*	4	5/6/11 11/4/11 5/3/12 10/23/12	51.02 51.30 51.21 51.36	3,380.75 3,380.47 3,380.56 3,380.41		107.5-115.0
MW012A *3429.92*	4	5/6/11 11/4/11 5/3/12	48.87 48.81 49	3,381.05 3,381.11 3,380.92		106.1-116.1
MW013A *3424.25*	4	5/3/11 11/2/11 5/1/12 10/24/12	33.28 43.29 43.36 43.6	3,390.97 3,380.96 3,380.89 3,380.65		96.3-106.44
MW014A *3423.9*	4	5/3/11 11/2/11 5/1/12 10/24/12	42.86 42.65 42.62 42.81	3,381.04 3,381.25 3,381.28 3,381.09		95.1-105.1
MW015A *3420.55*	4	5/3/11 11/2/11 5/1/12 10/25/12	39.58 39.48 39.55 38.04	3,380.97 3,381.07 3,381.00 3,382.51		92.2-102.2
MW016A *3419.92*	4	5/3/11 11/2/11 5/17/12 10/25/12	39.21 39.21 39.44 39.43	3,380.71 3,380.71 3,380.48 3,380.49		81.5-91.5
MW017A *3424.38*	4	5/6/11	P&A			93.5-103.5
MW018A *3416.86*	4	5/3/11 11/2/11 5/22/12 10/24/12	SWA 36.80 37.01 36.93	 3,380.06 3,379.85 3,379.93		71.5-81.5
MW019A *3414.74*	4	5/3/11 11/2/11 5/22/12 10/24/12	SWA 39.48 37.7 37.79	 3,375.26 3,377.04 3,376.95		62.2-72.2

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW020A *3421.14*	4	5/3/11 11/2/11 5/2/12 10/24/12	43.18 41.11 43.49 43.66	3,377.96 3,380.03 3,377.65 3,377.48		70-80
MW021A *3422.94*	4	5/6/11 11/4/11 5/2/12 10/24/12	46.44 46.74 47.97 47.44	3,376.50 3,376.20 3,374.97 3,375.50		75-85
MW022A *3431.13*	4	5/6/11 11/4/11 5/3/12 10/24/12	51.07 51.28 51.34 51.54	3,380.06 3,379.85 3,379.79 3,379.59		95-105
MW023A *3436.26*	4	5/3/11 11/2/11 5/4/12 10/25/12	56.52 55.39 55.43 55.56	3,379.74 3,380.87 3,380.83 3,380.70		110-120
MW024A *3430.77*	4	5/3/11 11/2/11 5/1/12 10/24/12	51.07 51.22 51.2 51.35	3,379.70 3,379.55 3,379.57 3,379.42		85-100
MW039A *3435.71*	4	5/6/11 11/4/11 5/3/12 10/24/12	55.08 55.12 55.22 55.4	3,380.63 3,380.59 3,380.49 3,380.31		107-117
MW040A *3422.92*	4	5/3/11 11/2/11 5/1/12 10/24/12	42.25 42.20 42.28 42.57	3,380.67 3,380.72 3,380.64 3,380.35		100-110
MW041A *3418.42*	4	5/6/11 11/3/11 5/8/12 10/24/12	41.79 42.11 42.05 42.47	3,376.63 3,376.31 3,376.37 3,375.95		78-88
MW042A *3424.75*	4	5/6/11 11/4/11 5/3/12 10/24/12	46.00 46.57 46.58 46.91	3,378.75 3,378.18 3,378.17 3,377.84		92-102
MW046A *3426.45*	4	5/6/11 11/4/11 5/3/12 10/24/12	46.70 47.05 47.1 47.32	3,379.75 3,379.40 3,379.35 3,379.13		87-107

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW048SA	4	5/4/11	45.30	3,375.80		27-82.
3421.10		11/3/11	45.55	3,375.55		
		5/2/12	45.63	3,375.47		
		10/23/12	45.87	3,375.23		
MW049SA	4	5/4/11	48.16	3,374.30		37-82
3422.46		11/3/11	48.48	3,373.98		
		5/2/12	48.48	3,373.98		
		10/23/12	48.78	3,373.68		
MW050SA	4	5/4/11	44.84	3,374.47		38-78
3419.31		11/4/11	45.24	3,374.07		
		5/2/12	45.48	3,373.83		
		10/24/12	45.7	3,373.61		
MW051SA	4	5/4/03	NG - No Access			33-63
3415.42		11/3/11	43.72	3,371.70		
		5/2/12	46.19	3,369.23		
		10/23/12	44.22	3,371.20		
MW052SA	4	5/3/11	44.76	3,370.47		33-63
3415.23		11/3/11	45.03	3,370.20		
		5/2/12	44.95	3,370.28		
		10/23/12	45.21	3,370.02		
MW053SA	4	5/3/11	42.05	3,371.81		40-90
3413.86		11/3/11	42.39	3,371.47		
		5/2/12	42.39	3,371.47		
		10/23/12	42.65	3,371.21		
MW054SA	4	5/3/11	44.92	3,366.46		32-57
3411.38		11/3/11	45.10	3,366.28		
		5/2/12	45.01	3,366.37		
		10/23/12	45.14	3,366.24		
MW055SA	4	5/3/11	40.84	3,366.59		30-50
3407.43		11/3/11	40.90	3,366.53		
		5/2/12	40.85	3,366.58		
		10/23/12	40.93	3,366.50		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW056SA	4	5/3/11	NG - No Access			32-52
3410.71		11/4/11	45.14	3,365.57		
		5/2/12	45.16	3,365.55		
		10/23/12	43.3	3,367.41		
MW057SA	4	5/3/11	NG - No Access			33-68
3417.74		11/2/11	45.83	3,371.91		
		5/17/12	46.14	3,371.60		
		10/23/12	46.51	3,371.23		
MW062A	4	5/3/11	55.28	3,378.91		98-108
3434.19		11/2/11	55.56	3,378.63		
		5/1/12	55.5	3,378.69		
		10/24/12	55.72	3,378.47		
MW063A	4	5/3/11	55.90	3,379.32		96-106
3435.22		11/2/11	56.04	3,379.18		
		5/1/12	56	3,379.22		
		10/24/12	56.13	3,379.09		
MW064SA	4	5/4/11	51.09	3,354.06		35-75
3405.15		11/2/11	51.29	3,353.86		
		5/2/12	51.33	3,353.82		
		10/23/12	51.36	3,353.79		
MW065SA	4	5/4/11	51.48	3,351.48		40-80
3402.96		11/3/11	51.81	3,351.15		
		5/1/12	51.72	3,351.24		
		10/23/12	51.69	3,351.27		
MW066SA	4	5/4/11	49.67	3,354.36		41-66
3404.03		11/3/11	50.47	3,353.56		
		5/2/12	50.24	3,353.79		
		10/23/12	50.56	3,353.47		
MW067SA	4	5/5/11	46.54	3,362.62		43-83
3409.16		11/3/11	47.18	3,361.98		
		5/2/12	46.89	3,362.27		
		10/23/12	47.25	3,361.91		
MW070A	4	5/3/11	59.06	3,380.61		112-127
3439.67		11/2/11	59.05	3,380.62		
		5/1/12	59.02	3,380.65		
		10/24/12	59.05	3,380.62		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW071SA	4	5/4/11	50.10	3,350.91		29-89
3401.01		11/3/11	51.41	3,349.60		
		5/1/12	50.36	3,350.65		
		10/23/12	50.31	3,350.70		
MW072SA	4	5/4/11	50.68	3,350.66		31-91
3401.34		11/2/11	51.08	3,350.26		
		5/2/12	50.91	3,350.43		
		10/23/12	50.88	3,350.46		
MW073SA	4	5/4/11	NG- Roots in Well			26-66
3403.26		11/3/11	48.84	3,354.42		
		5/2/12	48.65	3,354.61		
		10/23/12	48.76	3,354.50		
MW074SA	4	5/4/11	48.21	3,361.76		39-64
3409.97		11/2/11	48.50	3,361.47		
		5/2/12	48.5	3,361.47		
		10/23/12	48.72	3,361.25		
MW075SA	4	5/4/11	50.85	3,353.36		43-63
3404.21		11/2/11	51.00	3,353.21		
		5/1/12	51.03	3,353.18		
		10/23/12	51.01	3,353.20		
MW076SA	4	5/4/11	52.54	3,351.59		38-93
3404.13		11/2/11	52.72	3,351.41		
		5/1/12	52.73	3,351.40		
		10/23/12	52.65	3,351.48		
MW077SA	4	5/4/11	50.63	3,351.08		42-92
3401.71		11/2/11	50.90	3,350.81		
		5/1/12	50.89	3,350.82		
		10/23/12	50.8	3,350.91		
MW078SA	4	5/5/11	44.55	3,366.57		36-66
3411.12		11/3/11	45.06	3,366.06		
		5/2/12	44.85	3,366.27		
		10/23/12	45.18	3,365.94		
MW079SA	4	5/5/11	46.74	3,362.06		37-67
3408.80		11/3/11	47.43	3,361.37		
		5/2/12	47.15	3,361.65		
		10/23/12	47.53	3,361.27		
MW080SA	4	5/5/11	46.84	3,362.08		39-69
3408.92		11/3/11	47.52	3,361.40		
		5/2/12	47.25	3,361.67		
		10/23/12	47.61	3,361.31		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW081SA 3408.28	4	5/5/11 11/3/11 5/2/12 10/23/12	46.41 47.13 46.82 47.21	3,361.87 3,361.15 3,361.46 3,361.07		40-70
MW082SA 3406.25	4	5/4/11 11/2/11 5/2/12 10/23/12	52.03 52.25 52.27 52.3	3,354.22 3,354.00 3,353.98 3,353.95		45-75
MW083SA 3406.11	4	5/4/11 11/2/11 5/2/12 10/23/12	57.95 52.16 52.17 52.2	3,348.16 3,353.95 3,353.94 3,353.91		45-75
MW084SA 3405.98	4	5/4/11 11/2/11 5/2/12 10/23/12	51.45 51.65 51.65 51.71	3,354.53 3,354.33 3,354.33 3,354.27		45-75
MW085SA 3405.98	4	5/4/11 11/2/11 5/2/12 10/23/12	51.82 52.05 52.04 52.1	3,354.16 3,353.93 3,353.94 3,353.88		45-75
MW086SA 3401.86	4	5/4/11 11/3/11 5/1/12 10/23/12	50.92 51.20 51.16 51.09	3,350.94 3,350.66 3,350.70 3,350.77		50-90
MW087A 3430.75	4	5/4/11 11/4/11 5/4/12 10/23/12	49.94 49.89 50.21 50.42	3,380.81 3,380.86 3,380.54 3,380.33		90-110
MW089SA 3428.09	4	5/4/11 11/4/11 5/3/12 10/23/12	48.45 48.61 48.77 48.99	3,379.64 3,379.48 3,379.32 3,379.10		39-99
MW090SA 3428.33	4	5/4/11 11/4/11 5/3/12 10/23/12	48.90 49.11 49.26 49.51	3,379.43 3,379.22 3,379.07 3,378.82		36-101
MW091SA 3422.45	4	5/4/11 11/4/11 5/2/12 10/24/12	43.85 44.15 44.15 44.5	3,378.60 3,378.30 3,378.30 3,377.95		31-96

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW092SA	4	5/4/11	43.91	3,378.60		31-96
3422.51		11/4/11	44.17	3,378.34		
		5/2/12	44.16	3,378.35		
		10/24/12	44.54	3,377.97		
MW093SA	4	5/4/11	44.14	3,378.58		31-96
3422.72		11/4/11	44.42	3,378.30		
		5/2/12	44.43	3,378.29		
		10/24/12	44.78	3,377.94		
IW003	4	5/5/11	45.29	3,361.39		35-55
3406.68		11/3/11	45.61	3,361.07		
		5/2/12	45.37	3,361.31		
		10/23/12	45.57	3,361.11		
IW004	4	5/5/11	44.91	3,361.40		35-50
3406.31		11/3/11	45.14	3,361.17		
		5/2/12	45	3,361.31		
		10/23/12	46.16	3,360.15		
IW005	4	5/5/11	43.95	3,361.41		36-46
3405.36		11/3/11	44.18	3,361.18		
		5/2/12	44	3,361.36		
		10/23/12	44.29	3,361.07		
IW006	4	5/5/11	43.04	3,361.32		35-50
3404.36		11/3/11	43.30	3,361.06		
		5/2/12	43.13	3,361.23		
		10/23/12	43.44	3,360.92		
IW007	4	5/5/11	45.45	3,359.86		36-46
3405.31		11/3/11	46.46	3,358.85		
		5/2/12	46.19	3,359.12		
		10/23/12	46.93	3,358.38		
IW008	4	5/5/11	44.69	3,360.68		35-50
3405.37		11/3/11	44.85	3,360.52		
		5/2/12	44.78	3,360.59		
		10/23/12	44.89	3,360.48		
IW009	4	5/5/11	47.50	3,358.57		35-45
3406.07		11/3/11	47.89	3,358.18		
		5/2/12	47.7	3,358.37		
		10/23/12	47.57	3,358.50		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW010	4	5/5/11	53.78	3,352.04		33-58
3405.82		11/3/11	53.90	3,351.92		
		5/2/12	53.86	3,351.96		
		10/23/12	54.04	3,351.78		
IW011	4	5/5/11	55.55	3,351.28		43-63
3406.83		11/3/11	55.85	3,350.98		
		5/2/12	55.83	3,351.00		
		10/23/12	55.87	3,350.96		
IW012	4	5/5/11	54.29	3,351.63		43-53
3405.92		11/3/11	54.53	3,351.39		
		5/2/12	54.83	3,351.09		
		10/23/12	54.55	3,351.37		
IW013	4	5/5/11	54.10	3,352.52		45-60
3406.62		11/3/11	54.35	3,352.27		
		5/2/12	54.33	3,352.29		
		10/23/12	54.38	3,352.24		
IW014	4	5/5/11	52.50	3,352.98		33-73
3405.48		11/3/11	52.70	3,352.78		
		5/2/12	52.66	3,352.82		
		10/23/12	52.74	3,352.74		
IW015	4	5/5/11	45.05	3,361.00		34-49
3406.05		11/3/11	45.60	3,360.45		
		5/2/12	45.31	3,360.74		
		10/23/12	45.64	3,360.41		
IW016	4	5/5/11	47.40	3,360.89		29-69
3408.29		11/3/11	48.06	3,360.23		
		5/2/12	47.78	3,360.51		
		10/23/12	48.16	3,360.13		
IW018	4	5/5/11	45.94	3,378.60		31-96
3424.54		11/4/11	46.30	3,378.24		
		5/2/12	46.37	3,378.17		
		10/24/12	46.74	3,377.80		
IW019	4	5/5/11	45.15	3,378.63		31-96
3423.78		11/4/11	45.42	3,378.36		
		5/2/12	45.53	3,378.25		
		10/24/12	45.91	3,377.87		
IW020	4	5/5/11	44.81	3,378.69		32-97
3423.50		11/4/11	45.05	3,378.45		
		5/2/12	45.09	3,378.41		
		10/24/12	45.52	3,377.98		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW021 *3423.16*	4	5/5/11 11/4/11 5/2/12 10/24/12	44.44 44.70 44.67 45.08	3,378.72 3,378.46 3,378.49 3,378.08		32-97
IW022 *3423.16*	4	5/5/11 11/4/11 5/2/12 10/24/12	44.35 44.65 44.66 44.99	3,378.81 3,378.51 3,378.50 3,378.17		32-97
IW023 *3426.05*	4	5/5/11 11/4/11 5/2/12 10/24/12	47.22 47.49 47.53 47.8	3,378.83 3,378.56 3,378.52 3,378.25		34-98
IW024 *3426.63*	4	5/5/11 11/4/11 5/3/12 10/23/12	47.32 47.79 47.64 48.02	3,379.31 3,378.84 3,378.99 3,378.61		41-101
IW025 *3427.62*	4	5/5/11 11/4/11 5/3/12 10/23/12	48.37 48.63 49.72 49.01	3,379.25 3,378.99 3,377.90 3,378.61		44-101
IW026 *3428.01*	4	5/5/11 11/4/11 5/3/12 10/23/12	48.65 49.90 49 49.7	3,379.36 3,378.11 3,379.01 3,378.31		37-102
IW027 *3428.17*	4	5/5/11 11/4/11 5/3/12 10/23/12	48.65 48.90 49 49.29	3,379.52 3,379.27 3,379.17 3,378.88		39.5-99.5
IW028 *3428.18*	4	5/5/11 11/4/11 5/3/12 10/23/12	48.62 48.82 48.96 49.21	3,379.56 3,379.36 3,379.22 3,378.97		35-105
RW001 *3128.32*	*6*	5/5/11 11/4/11	P&A P&A			44-104
RW004A *3430.74*	*6*	5/6/11 11/4/11 5/4/12 10/23/12	47.68 47.50 44.85 47.99	3,383.06 3,383.24 3,385.89 3,382.75		95-115

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
Shallow Monitor Wells						
MW-1	5/11/11	6.59	26.49	3,128	18.60	0.16
	5/24/12	6.41	24.58	4,122	-24.20	0.50
MW-2	5/16/11	6.85	23.50	7,140	-234.30	0.99
	5/24/12	6.65	24.92	7,080	43.90	1.31
MW-3	5/11/11	7.26	23.29	3,849	22.80	5.81
	5/22/12	7.24	25.95	1,793	-164.80	7.16
MW-4	5/16/11	6.82	21.45	4,273	80.80	1.55
	5/22/12	6.74	24.29	3,955	13.80	0.56
DUP	5/22/12	6.74	24.29	3,955	13.80	0.56
MW-5	5/17/11	6.93	28.15	2,253	-158.30	0.20
	5/24/12	6.43	29.17	2,988	124.80	0.22
MW-6	5/17/11	7.08	27.20	5,183	-125.00	0.09
MW-7	5/16/11	7.42	22.72	1,463	93.00	6.37
	5/22/12	6.92	26.97	3,667	-168.50	5.02
MW-8	5/11/11	6.86	22.15	6,275	-77.80	0.28
	5/25/12	6.61	27.32	6,496	54.90	0.54
MW-8M	5/11/11	6.75	22.40	7,643	-124.80	0.22
MW-9	5/11/11	7.11	23.23	1,860	183.60	2.91
	5/22/12	7.03	26.24	2,642	-161.40	4.44
MW-10	5/11/11	6.73	23.27	9,538	76.30	4.15
	11/7/11	4.74	21.42	7,964	407.60	NA
	5/21/12	6.55	25.45	10,320	65.50	3.94
	10/26/12	7.57	19.17	6,417	-14.00	3.91
MW-11	5/16/11	6.61	21.62	6,628	-347.80	0.79
	5/22/12	6.23	23.35	6,629	-143.60	0.16
MW-11M	5/11/11	6.97	26.07	6,395	-2.00	0.04
	5/22/12	7.04	24.65	7,857	-39.20	0.23
MW-12	5/13/11	6.56	24.15	4,420	-52.40	0.35
	5/22/12	6.51	23.50	4,601	-92.80	0.19
MW-12M	5/13/11	7.03	21.06	7,321	-114.40	0.22
	5/22/12	7.02	22.74	7,704	-143.70	0.30

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-13	5/12/11	7.17	27.49	4,785	173.90	3.89
	11/8/11	7.21	20.04	2,627	45.20	5.51
	5/17/12	6.69	21.80	3,395	-167.80	5.89
DUP	5/17/12	6.97	22.01	4,734	-167.80	0.34
	11/1/12	7.53	23.31	2,661	-22.60	4.91
DUP	11/1/12	7.53	23.31	2,661	-22.60	4.91
MW-14	5/11/11	6.90	28.05	5,889	156.70	0.55
	11/7/11	6.49	21.29	6,181	375.70	NA
	5/18/12	6.66	22.70	6,656	74.30	0.28
	10/29/12	7.05	23.46	5,837	-72.90	0.29
MW-15	5/11/11	6.81	22.90	5,105	159.80	5.60
	11/7/11	6.77	21.76	4,497	361.10	NA
	5/17/12	6.82	21.94	4,465	89.20	6.92
	10/29/12	7.02	19.11	2,836	158.70	5.46
MW-18	5/11/11	6.84	23.19	1,820	199.00	5.29
	11/8/11	6.97	19.16	2,639	276.50	NA
	5/21/12	7.23	22.22	1,856	36.50	3.91
	10/26/12	8.05	19.98	1,656	-30.60	6.05
MW-20	5/11/11	7.03	23.25	4,512	60.90	4.36
	11/8/11	7.13	17.41	4,633	247.50	NA
	5/17/12	7.80	25.58	4,100	-29.00	5.06
	10/26/12	7.86	17.73	2,898	-22.40	5.47
MW-21	5/12/11	7.05	21.72	1,548	182.80	1.39
	11/8/11	7.04	19.20	1,284	12.90	0.43
	5/23/12	6.93	22.35	1,475	-11.90	0.22
	11/1/12	7.28	22.81	1,461	-61.00	1.08
MW-22	5/13/11	7.05	21.72	1,548	182.80	1.40
MW-23	5/16/11	6.93	22.97	4,785	79.40	5.03
	11/8/11	7.72	17.47	3,571	46.40	9.88
	5/24/12	6.66	23.54	5,749	103.40	6.30
	11/6/12	7.07	21.37	4,155	-1.80	6.55
MW-24	5/12/11	7.03	22.36	2,722	90.40	1.82
	11/9/11	7.18	18.00	2,337	39.70	1.58
	5/22/12	6.92	23.40	2,796	0.90	1.09
	11/1/12	7.31	21.57	2,473	-49.30	1.76
MW-25	5/11/11	6.76	25.73	1,875	102.20	2.50
	11/7/11	6.89	23.24	2,583	36.90	0.25
	5/22/12	6.76	21.88	1,830	57.70	1.45
	10/29/12	7.24	23.96	1,477	-42.00	3.88

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-26	5/12/11	6.79	24.37	3,545	106.90	3.89
	11/8/11	6.98	18.69	2,376	60.50	6.37
	5/17/12	3.72	29.10	3,724	4.60	4.01
	10/29/12	7.01	23.59	2,627	-15.20	5.11
MW-27	5/12/11	7.07	24.60	2,218	94.00	4.31
	11/7/11	7.24	22.57	2,160	62.50	7.10
	5/17/12	7.41	24.42	2,152	1.90	3.96
	10/30/12	7.41	20.65	1,849	-14.60	7.60
MW-28	5/12/11	7.15	24.16	2,690	65.60	1.71
	11/8/11	7.51	20.33	2,468	-9.20	0.85
	11/2/12	7.35	23.44	2,466	-33.20	2.43
MW-29	5/12/11	7.54	21.09	1,027	81.60	7.06
	11/8/11	7.31	17.79	1,367	282.10	NA
	5/24/12	7.10	23.60	1,294	77.40	7.00
	11/1/12	8.01	17.70	863	-14.90	7.25
MW-30	5/12/11	7.49	23.12	1,110	88.60	5.74
	11/8/11	7.43	18.98	1,149	276.90	NA
	5/24/12	7.58	24.15	995	0.10	4.16
	11/1/12	7.85	20.62	821	-32.10	6.72
MW-31	5/12/11	7.01	21.19	1,057	-46.90	1.64
	11/8/11	7.79	19.56	936	-33.50	1.42
	5/24/12	7.12	26.47	1,368	-64.80	0.19
	10/31/12	7.22	22.88	1,041	-121.70	0.25
MW-32	5/12/11	7.06	25.35	1,632	87.30	3.48
	11/8/11	7.26	19.65	1,379	44.50	5.39
	5/24/12	6.99	28.27	2,023	-135.80	4.68
	10/30/12	7.42	23.67	1,349	31.20	4.05
MW-33	5/12/11	7.21	24.15	2,830	-329.70	0.68
	11/7/11	7.21	23.69	2,464	-271.80	0.24
	5/17/12	7.21	24.53	5,530	135.40	0.91
	11/6/12	7.17	23.04	2,488	-237.20	0.12
MW-34	5/12/11	7.21	29.24	2,872	170.90	3.10
	5/8/12	6.96	17.86	2,303	90.70	4.71
MW-35	5/11/11	6.72	24.65	808	99.20	2.44
	5/25/12	6.58	25.98	2,279	59.30	0.04
MW-36	5/16/11	6.96	28.39	890	-143.80	5.92
	5/25/12	6.73	24.83	1,654	114.50	0.33

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-37	5/17/11	6.74	26.54	3,641	-109.50	0.08
	5/25/12	6.68	24.97	5,904	-121.40	0.48
MW-38	5/11/11	6.84	23.79	1,483	-126.50	0.17
MW-43	5/12/11	6.99	25.26	1,897	165.80	0.36
	5/23/12	6.87	22.26	2,047	12.40	0.26
MW-44	5/12/11	7.42	27.19	965	173.50	4.12
MW-45	5/16/11	6.78	24.32	2,082	20.30	0.52
	5/23/12	6.73	21.49	2,249	9.00	0.42
MW-46	5/16/11	7.01	24.53	3,335	-259.80	0.17
	5/23/12	5.87	25.12	3,261	-152.40	0.20
MW-47	5/16/11	7.10	22.30	3,512	87.50	4.80
	5/23/12	6.50	26.57	4,646	60.10	5.24
MW-58	5/13/11	7.16	20.60	4,649	113.80	6.28
	11/10/11	8.62	18.77	1,099	47.60	10.08
	5/24/12	7.50	23.70	1,574	13.00	4.80
DUP	5/24/12	7.50	23.70	1,574	13.00	4.80
	11/6/12	7.11	23.91	5,187	-15.10	4.20
DUP	11/6/12	7.11	23.91	5,187	-15.10	4.20
MW-59	5/16/11	7.25	22.85	1,044	58.40	5.24
	11/8/11	8.25	18.01	825	26.80	9.92
	5/24/12	7.05	24.07	1,779	76.60	5.19
	11/2/12	7.08	25.44	4,510	-17.50	6.22
MW-60	5/16/11	7.07	23.78	5,364	-155.80	0.49
	11/7/11	7.50	23.25	3,465	-222.40	1.19
	5/24/12	6.89	25.51	3,261	-49.50	0.54
	10/31/12	6.55	27.51	4,139	-156.80	0.33
MW-61	5/13/11	6.94	21.49	2,043	73.30	0.35
	11/8/11	7.09	18.61	3,109	26.40	NA
	5/25/12	7.22	22.63	2,447	-187.30	0.45
	11/2/12	7.10	24.88	5,021	-18.30	3.72
MW-68	5/13/11	7.37	20.57	946	107.20	4.69
	11/7/11	7.93	23.51	991	32.90	7.57
	5/25/12	7.44	20.22	1,177	-181.80	3.53
	10/31/12	8.08	17.24	1,033	-43.60	2.02
MW-69	5/16/11	6.73	22.92	4,010	12.10	0.28
	5/24/12	6.84	24.06	3,892	43.50	0.16
MW-70	5/13/11	7.33	20.72	1,413	64.20	4.34
	11/9/11	8.52	16.48	1,007	26.60	7.56
	5/23/12	7.34	23.55	1,448	8.60	3.20
	11/6/12	7.39	23.49	1,258	-24.80	4.44
MW-88M	5/11/11	6.50	27.35	7,863	-157.10	0.07

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-94	11/17/11	6.85	17.45	1,503	86.30	NA
	5/25/12	7.35	24.53	1,693	182.00	1.65
	10/31/12	7.09	22.43	1,570	-58.80	0.34
MW-95	11/17/11	6.67	17.50	5,576	103.80	1.17
	5/25/12	7.15	21.90	5,827	-166.00	0.21
DUP	5/25/12	7.15	21.90	5,827	-166.00	0.21
	10/31/12	6.80	22.49	5,258	32.90	0.31
IW001	5/17/11	7.02	25.88	8,518	-300.70	0.15
	5/25/12	6.89	20.95	7,933	228.80	0.39
IW002	5/17/11	7.02	24.52	6,605	-226.70	0.13
	11/9/11	7.70	18.51	4,321	-160.30	3.24
RW002	5/17/11	6.27	22.43	5,272	-129.90	0.43
	5/22/12	5.95	22.50	6,422	-39.20	0.29
RW003	5/17/11	6.54	27.63	3,568	-106.30	0.20
	5/21/12	6.59	25.21	4,231	-121.10	0.43
Deep Monitor Wells						
MW-2A	5/25/11	7.09	26.08	1,719	139.70	2.20
	5/24/12	6.86	25.09	2,026	58.00	2.35
MW-4A	5/24/11	7.84	24.57	1,863	95.20	4.66
	5/22/12	7.11	24.14	3,065	-10.00	3.33
MW-7A	5/24/11	7.36	28.96	2,804	56.00	2.60
MW-8A	5/26/11	6.52	22.91	6,510	-187.80	1.19
MW-9A	5/25/11	7.19	22.67	2,497	130.80	4.60
MW-11A	5/25/11	6.90	26.80	6,922	126.40	0.49
	5/22/12	6.69	23.42	7,411	73.20	0.40
MW-12A	5/25/11	7.74	24.25	869	-704.90	0.39
	5/22/12	7.57	22.48	923	-245.60	0.40

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-13A	5/19/11	7.39	24.41	784	48.40	4.44
	11/9/11	7.56	19.01	742	54.10	6.41
	5/17/12	7.13	22.87	996	78.50	6.43
	10/29/12	7.31	21.55	779	58.90	5.38
MW-14A	5/18/11	6.66	24.51	335	31.60	2.86
	11/9/11	7.35	19.19	266	21.00	0.39
	5/18/12	7.26	22.61	930	29.40	4.92
	10/29/12	7.57	23.20	797	39.80	4.04
MW-15A	5/18/11	7.31	24.79	2,515	63.40	3.80
	11/9/11	7.72	19.33	2,237	57.70	6.17
	5/17/12	6.49	21.24	9,187	88.10	4.49
	10/29/12	4.93	17.83	5,661	223.60	1.64
MW-16A	5/17/11	8.16	27.30	1,670	97.90	4.33
	11/9/11	8.02	18.40	2,111	243.10	NA
	5/17/12	7.51	21.37	1,665	63.20	3.00
	10/26/12	7.10	19.78	1,877	76.80	-
MW-18A	5/24/11	7.80	27.79	352	41.10	3.51
	11/9/11	6.99	16.76	1,838	273.70	NA
	5/21/12	7.46	21.19	1,385	10.80	3.97
	10/26/12	8.13	19.94	1,365	-39.80	5.94
MW-19A	5/17/11	7.37	24.40	1,921	134.60	3.82
	11/9/11	7.74	17.01	1,887	217.90	NA
	5/21/12	7.31	21.07	1,672	17.70	4.17
	10/26/12	7.13	18.83	1,522	75.30	-
MW-20A	5/16/11	7.07	25.56	5,134	-5.70	3.51
	11/9/11	7.32	17.20	2,471	231.40	NA
	5/17/12	7.00	25.01	2,348	21.80	3.11
	10/26/12	6.68	19.20	3,032	79.20	-
MW-21A	5/23/11	7.06	29.81	1,095	55.70	2.03
	11/17/11	6.08	13.06	9,209	170.10	NA
	5/17/12	6.96	22.40	12,490	-100.10	0.50
	11/8/12	7.03	23.09	12,690	-77.00	0.59
MW-22A	5/25/11	7.57	25.87	634	119.40	4.20
	11/17/11	6.85	13.55	609	115.10	NA
	5/23/12	7.36	28.16	812	5.40	4.13
	11/9/12	7.60	23.61	657	-31.60	4.60
MW-23A	5/18/11	7.62	22.75	806	50.60	5.21
	11/10/11	7.97	16.55	641	51.50	6.52
	5/24/12	6.75	22.89	905	93.50	5.33
	10/30/12	7.70	18.66	703	85.30	4.87

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-24A	5/18/11	7.62	25.07	1,439	30.80	1.69
	11/10/11	7.90	18.17	1,255	51.50	6.64
	5/18/12	7.31	21.66	3,022	46.80	3.87
	10/30/12	7.08	20.63	2,517	82.30	3.25
MW-39A	5/26/11	7.62	24.50	1,404	-67.30	4.30
	5/25/12	7.75	24.01	1,716	10.10	0.66
DUP	5/25/12	7.75	24.01	1,716	10.10	0.66
MW-40A	5/19/11	8.07	23.18	687	88.80	3.66
	11/9/11	8.55	19.85	659	37.30	5.53
	5/17/12	7.28	23.28	907	59.00	6.93
	10/29/12	8.10	23.74	782	45.00	3.94
MW-41A	5/24/11	5.40	24.98	2,225	174.70	1.71
	5/8/12	5.69	18.89	20,250	178.10	0.89
MW-42A	5/25/11	9.29	24.22	2,123	95.30	5.40
	5/25/12	9.26	76.72	2,894	-2.00	5.88
MW-46A	5/25/11	7.88	24.91	2,113	154.10	5.65
	5/23/12	7.61	24.26	2,525	10.10	5.59
MW-48SA	5/29/11	7.10	23.29	2,673	100.80	4.79
	11/16/11	7.03	20.66	3,649	117.10	NA
	5/16/12	6.97	20.91	3,257	92.20	6.01
	11/8/12	7.70	22.25	2,651	-21.60	5.48
DUP	11/8/12	7.70	22.25	2,651	-21.60	5.48
MW-49SA	5/23/11	0.93	35.48	5,362	79.80	1.14
	5/17/12	7.10	20.97	6,893	-128.20	-1.14
MW-50SA	5/23/11	6.77	25.97	5,415	109.40	1.26
	5/17/12	7.05	21.33	5,115	-117.90	1.24
MW-51SA	5/23/11	6.46	25.88	5,220	127.70	1.02
	5/16/12	6.99	20.94	6,176	145.70	0.72
DUP	5/16/12	6.99	20.94	6,176	145.70	0.72
MW-52SA	5/23/11	6.85	25.86	4,792	74.70	1.84
	5/16/12	5.87	21.45	5,595	131.50	1.29
MW-53SA	5/24/11	7.29	22.95	1,490	91.80	2.61
	11/16/11	6.56	19.68	1,775	155.50	NA
	5/16/12	7.34	22.60	1,949	67.40	5.78
	11/9/12	7.54	24.03	1,824	-23.90	5.26

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-54SA	5/24/11	7.12	27.92	3,477	139.80	4.16
	11/16/11	3.78	19.38	3,516	290.60	NA
	5/16/12	6.86	21.30	3,743	87.50	5.20
	11/7/12	7.12	23.21	3,197	-38.80	4.56
DUP	11/7/12	7.12	23.21	3,197	38.80	4.56
MW-55SA	5/24/11	7.19	26.50	2,616	120.50	4.02
	11/16/11	3.93	20.39	3,010	279.20	NA
	5/16/12	6.92	20.75	3,060	89.40	5.59
DUP	5/16/12	6.92	20.75	3,060	89.40	5.59
	11/7/12	7.19	22.15	2,543	-37.40	6.55
DUP	11/7/12	7.19	22.15	2,543	-37.40	6.55
MW-56SA	5/17/11	7.11	28.10	7,134	84.30	2.37
	11/17/11	6.40	16.46	5,599	78.40	5.32
	5/16/12	7.07	22.84	6,224	-2.10	2.27
DUP	5/16/12	7.07	22.84	6,224	-2.10	2.27
	11/8/12	7.34	20.91	5,089	-10.00	4.11
MW-57SA	5/17/11	7.15	26.19	2,528	105.40	4.78
	11/10/11	5.57	17.21	2,277	322.30	NA
	5/17/12	7.27	22.92	1,840	15.80	4.37
	10/31/12	7.03	21.92	1,675	74.40	5.63
MW-62A	5/19/11	7.74	24.69	671	85.50	5.00
	11/10/11	8.01	19.27	646	38.70	6.05
	5/23/12	7.72	20.80	828	35.00	4.13
	10/31/12	7.57	19.51	717	74.10	5.65
MW-63A	5/19/11	7.52	23.25	643	82.70	1.64
	11/10/11	7.90	18.97	606	37.60	3.85
	5/18/12	7.63	22.72	829	17.30	4.64
	10/31/12	7.60	18.35	653	72.10	5.65
MW-64SA	5/10/11	6.83	25.57	3,338	110.30	4.61
	11/10/11	8.01	18.01	2,707	53.50	7.18
	5/11/12	7.13	18.63	3,586	21.90	3.78
	10/30/12	7.34	23.18	3,422	-23.70	5.08
MW-65SA	5/19/11	7.01	23.70	3,770	106.90	5.55
	11/14/11	5.23	20.90	4,406	223.40	NA
	5/9/12	7.10	21.69	3,714	74.10	5.23
DUP	5/9/12	7.10	21.69	3,714	74.10	5.23
	11/1/12	6.95	23.46	4,033	68.70	4.93
DUP	11/1/12	6.95	23.46	4,033	68.70	4.93
MW-66SA	5/18/11	6.86	24.88	4,576	86.30	1.27
	11/14/11	5.88	20.58	4,849	177.80	NA
	5/15/12	6.82	21.35	5,692	62.40	0.58
	11/2/12	6.78	19.24	4,129	59.90	0.32

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-67SA	5/19/11	7.18	27.65	1,485	44.40	3.63
	11/15/11	6.12	20.32	1,669	170.90	NA
	5/16/12	6.41	20.75	1,695	123.10	5.75
	11/2/12	7.06	25.06	1,583	57.60	4.38
MW-70A	5/18/11	7.83	24.35	798	64.30	5.22
	5/23/12	7.78	22.73	870	-13.10	3.77
MW-71SA	5/18/11	7.37	27.05	1,084	90.20	1.21
	11/14/11	5.92	19.85	1,085	206.20	NA
	5/8/12	7.28	19.86	979	65.10	1.50
	11/1/12	7.17	23.12	1,058	17.90	0.45
MW-72SA	5/18/11	7.32	25.82	1,945	123.10	6.10
	11/14/11	5.99	20.77	1,607	193.40	NA
	5/15/12	7.26	20.58	2,059	74.10	8.00
	11/2/12	7.14	20.23	2,036	74.40	6.34
MW-73SA	5/19/11	7.21	21.31	1,711	112.90	2.08
	11/14/11	5.94	20.88	1,861	173.20	NA
	5/15/12	6.97	20.84	2,012	64.10	1.57
	11/2/12	7.10	22.67	1,591	55.00	1.15
MW-74SA	5/18/11	7.05	23.87	3,102	142.00	5.08
	11/10/11	6.29	17.29	4,080	270.00	NA
	5/16/12	7.11	23.44	3,588	1.80	3.23
	10/31/12	6.92	22.30	2,997	68.20	5.15
MW-75SA	5/10/11	7.41	26.14	29,990	87.10	5.18
	11/11/11	7.08	16.01	4,024	78.20	NA
	5/9/12	7.16	27.16	2,941	70.40	4.51
	10/30/12	7.28	23.84	2,963	-19.60	5.74
MW-76SA	5/10/11	7.44	26.76	2,838	82.60	4.61
	11/11/11	6.96	16.99	3,793	65.70	NA
	5/9/12	7.25	21.24	2,661	79.70	4.68
	10/30/12	7.03	21.42	2,689	68.00	4.80
MW-77SA	5/10/11	7.11	27.08	3,667	142.80	4.04
	11/11/11	6.69	17.46	4,361	60.20	NA
	5/9/12	7.24	19.49	1,809	169.30	3.07
	11/1/12	7.07	19.87	2,414	60.00	0.79
MW-78SA	5/19/11	7.37	25.96	1,294	95.20	2.38
	11/15/11	6.65	19.47	1,252	199.50	NA
	5/16/12	7.26	23.28	1,431	-34.90	1.48
	11/2/12	7.08	24.29	1,291	39.30	1.69

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-79SA	5/23/11	6.94	29.42	2,142	-316.60	0.07
	11/15/11	5.46	21.07	2,068	-195.80	NA
	5/9/12	7.01	20.43	2,193	-297.70	0.61
	11/7/12	6.89	23.36	1,965	-193.90	0.52
MW-80SA	5/19/11	7.20	24.87	1,694	48.70	4.38
	11/15/11	6.50	20.43	1,880	173.70	NA
	5/9/12	7.14	21.73	2,118	50.90	6.30
	11/7/12	7.29	22.61	1,784	-19.00	6.30
MW-81SA	5/19/11	6.97	24.89	2,529	-8.20	0.90
	11/15/11	5.63	21.45	2,515	91.30	NA
	5/9/12	7.01	20.43	2,665	-6.70	1.95
	11/7/12	7.10	21.26	2,330	-24.30	1.29
MW-82SA	5/10/11	6.74	25.61	4,170	45.90	0.35
	11/10/11	5.41	18.07	5,228	-103.30	NA
	5/11/12	6.85	19.70	3,995	-184.40	0.26
	10/30/12	6.80	21.84	4,015	-39.00	0.17
MW-83SA	5/9/11	6.69	28.14	3,701	99.70	1.32
	11/10/11	5.61	17.80	6,204	156.30	NA
	5/11/12	7.02	20.00	5,220	71.00	0.72
	10/31/12	6.92	22.16	5,014	52.10	0.35
MW-84SA	5/10/11	7.07	26.91	5,021	132.10	3.90
	11/10/11	7.83	18.11	3,869	56.10	7.11
	5/11/12	7.06	17.75	4,686	56.80	4.09
	10/30/12	6.95	22.56	4,715	52.70	4.12
MW-85SA	5/9/11	5.15	28.47	4,870	-87.40	5.15
	10/10/11	3.03	17.33	4,463	-111.30	NA
	5/11/12	6.82	18.64	3,521	-141.40	0.89
	10/31/12	6.75	21.89	3,631	-35.60	0.20
MW-86SA	5/19/11	7.17	23.46	2,508	96.30	2.79
	11/14/11	5.19	19.39	1,931	229.90	NA
	5/8/12	7.27	19.39	7,219	93.00	4.02
	11/1/12	7.07	21.95	2,855	35.50	1.00
MW-87A	5/26/11	7.16	20.71	5,123	-361.60	0.90
MW-89SA	5/24/11	7.02	23.73	4,274	119.30	3.02
	5/22/12	7.13	26.36	1,805	-174.80	5.00
DUP	5/22/12	7.13	26.36	1,805	-174.80	5.00
MW-90SA	5/25/11	7.20	24.04	2,743	128.80	4.65
	5/23/12	6.95	28.59	2,743	-151.40	5.37
MW-91SA	5/24/11	7.21	27.04	1,537	107.50	2.75
	5/8/12	7.09	20.09	1,566	70.00	2.32

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-92SA	5/23/11	6.86	26.94	2,073	78.90	3.22
	5/11/12	7.01	19.87	1,675	107.80	3.53
MW-93SA	5/23/11	6.81	29.64	2,046	54.70	2.84
	5/11/12	6.81	19.13	1,751	113.50	1.79
IW-3	5/20/11	6.73	21.01	4,198	-179.80	1.03
	5/11/12	7.15	20.20	5,495	197.60	0.67
IW-4	5/20/11	6.52	22.31	4,970	-144.10	1.01
	5/11/12	7.02	19.69	6,085	162.20	0.53
IW-5	5/20/11	6.67	22.53	4,655	-175.20	0.76
	5/11/12	7.05	20.20	5,833	199.80	0.24
IW-6	5/20/11	6.72	24.43	4,621	-76.60	0.72
	5/11/12	7.08	19.80	5,110	174.50	0.15
IW-7	5/19/11	6.88	27.89	5,937	-165.50	0.81
	5/15/12	6.82	19.75	5,915	-200.80	0.67
IW-8	5/20/11	6.95	17.90	3,412	-68.60	2.25
	5/15/12	7.05	20.45	4,340	-165.50	0.42
IW-9	5/20/11	6.20	21.66	8,569	-84.70	1.33
IW-10	5/20/11	6.57	22.84	4,974	-28.00	0.95
	5/15/12	6.56	23.77	4,440	-60.10	0.99
IW-11	5/20/11	6.78	23.77	4,662	-124.50	0.77
	5/15/12	6.72	23.09	3,970	168.70	0.70
IW-12	5/20/11			NS		
IW-13	5/20/11	6.75	21.72	3,923	-128.50	0.30
	5/15/12	6.97	22.01	4,734	-167.80	0.34
IW-14	5/20/11	6.81	23.60	4,846	-177.50	0.08
	5/15/12	6.97	22.02	5,588	-184.50	0.35
Dup	5/15/12	6.97	22.02	5,588	-184.50	0.35
IW-15	5/20/11	6.79	21.73	4,305	-179.30	1.14
	5/11/12	7.07	19.22	5,686	-198.30	1.40
IW-16	5/20/11	7.00	23.32	2,951	-121.60	1.79
	5/9/12	6.82	19.88	2,857	218.30	2.03
IW-18	5/23/11	7.01	27.74	1,358	24.50	4.15
	5/11/12	7.16	20.42	1,069	106.90	1.30
IW-19	5/23/11	7.37	28.13	891	21.40	4.73
	5/11/12	7.27	20.48	971	113.60	5.69
IW-20	5/23/11	7.01	26.26	1,202	64.80	5.33
	5/17/12	7.11	22.08	1,260	67.70	4.38

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature oC	Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
IW-21	5/23/11	6.83	27.76	2,370	91.40	3.00
	5/17/12	7.06	21.88	2,160	-53.20	4.76
IW-22	5/24/11	7.05	25.78	1,451	88.70	2.56
	5/17/12	7.15	22.10	1,960	67.20	2.76
IW-23	5/24/11	7.01	26.16	3,063	103.70	2.63
	5/18/12	7.09	21.02	3,309	70.70	0.63
IW-24	5/24/11	6.89	25.79	3,907	58.90	3.83
	5/24/12	6.80	27.86	4,660	-111.80	3.66
IW-25	5/24/11	NS				
IW-26	5/24/11	NS				
	5/23/12	6.87	28.76	3,167	-111.00	5.71
IW-27	5/24/11	7.01	24.60	2,804	142.60	5.04
	5/23/12	6.90	27.26	3,426	-220.20	4.89
IW-28	5/23/11	6.95	29.80	3,233	39.50	4.62
	5/22/12	7.07	27.40	2,479	-160.80	4.38
Dup	5/22/12	7.07	27.40	2,479	-160.80	4.38
RW-1	---	PLUGGED AND ABANDONED				
RW-4A	5/25/11	5.68	25.07	1,092	-158.90	1.16
RW060	7/14/11	6.27	22.43	5,272	-129.90	0.10
Water Wells						
EP-WW1	5/18/11	No Parameters Taken From Water Well				
GOPWW2	5/25/11	7.28	24.89	4,724	-193.50	0.47
	11/17/11	7.01	16.71	4,494	-110.90	NA
	5/8/12	7.71	19.11	3,899	-110.70	1.01
	11/1/12	7.84	21.08	4,077	341.60	0.04
LORDWW	5/26/11	8.08	20.79	6,029	-299.60	0.45
	11/10/11	8.44	19.09	5,179	-278.20	0.24
	5/18/12	8.83	25.14	6,446	-217.50	0.18
	10/26/12	8.65	15.77	4,037	-187.20	0.26
ROLANDWW	5/25/11	8.36	23.83	1,706	99.10	0.61
WOODELLWW	5/25/11	No Parameters Taken From Water Well				
	5/16/12	7.00	70.11	2,965	-1.40	3.87

Notes:
1. NA - Not Analyzed.
2. LNAPL - Light non-aqueous phase liquid.
3. NS - Not Sampled.

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID *TOC Elevation*	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	Corrected Groundwater Elevation* (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
			Water Wells			
GOPWW2 *3396.67*		5/4/11 11/2/11 5/1/12	46.69 47.06 47	3,349.98 3,349.61 3,349.67		--
LordWW 3419.97		10/26/12	NA 41.38	3,378.59		--
RolandWW 3419.47			NA			--
WoodellWW 3423.77			NA			77-97
EPWW1 3429.95			NA			--

Notes:

1. TOC - Top of Casing.
2. LNAPL - Light non-aqueous phase liquid.
3. bgs - below ground surface.
4. No suffix - shallow/middle monitoring well completion (i.e. MW001).
5. "A" suffix - deep monitoring well completion (i.e. MW004A).
6. "M" suffix- middle monitoring well completion (i.e. MW008M).
7. "SA" suffix - fully-penetrating, monitoring well completion (i.e. MW072SA) .
9. RW - Recovery Well.
10. EP - Eunice Plant.
11. WW - Water Well.
12. GOP - Gulf Oil Corp.
13. IW - Injection Well.
14. <#.#### - Not detected at or above MDL for 2012 and RL for 2011.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
Shallow Monitor Wells						
MW001	5/11/11	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	1.31
MW002	5/16/2011	0.0138 J	0.0589	0.0627	<0.100	<0.0500
	5/24/2012	<0.00756	0.0720	0.0567	<0.0188	<0.00291
MW004	5/16/2011	<0.0100	0.268	0.244	<0.100	<0.0500
	5/22/2012	<0.00756	0.286	0.277	<0.0188	<0.00291
DUP	5/22/2012	<0.00756	0.285	0.274	<0.0188	0.0280
MW005	5/17/2011	<0.0100	0.0143	<0.0500	0.211	0.123
	5/24/2012	0.0229	0.0118	<0.00355	<0.0188	0.0444
MW006	5/17/2011	<0.0100	0.0297	<0.0500	0.310 J	<0.0500
MW007	5/22/12	<0.00756	0.0334	0.032	<0.0188	<0.00291
MW008	5/11/2011	<0.0100	<0.0100 J	<0.0500	1.22	1.11
DUP	5/11/2011	0.0105	<0.0100 J	<0.0500	1.03	1.11
	5/25/2012	<0.00756	<0.00500	<0.00355	0.263	1.22
MW008M	5/11/2011	0.0213	<0.0100 J	<0.0500	1.16	0.565
	5/25/2012	<0.00756	0.0389	0.0299	17.4	2.20
MW009	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	5/22/2012	<0.00756	0.0143	0.0249	<0.0188	<0.00291
MW010	5/11/2011	0.0149	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	0.0415	0.0409	<0.200	<0.0200
	5/21/2012	<0.00756	0.0592	0.0594	<0.0188	<0.00291
	10/26/2012	<0.00756*	0.0480	0.0524*	<0.0188*	<0.00291*
MW011	5/16/2011	<0.0100	<0.0100	<0.0500	0.957	0.778
	5/22/2012	<0.00756	0.0398	<0.00355	5.23	2.87
MW011M	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
DUP	5/11/11	<0.0100	<0.0100 J	<0.0500	0.105	<0.0500
	5/22/2012	<0.00756 J	0.0188 J	0.0390	0.352	<0.00291

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW012	5/13/2011	<0.0100	<0.0100	<0.0500	1.24	9.27
	5/22/2012	<0.00756	0.0466	<0.00355	17.4	2.33
MW012M	5/13/2011	0.069	<0.0100	<0.0500	6.51	0.058
	5/22/2012	0.0784	0.284	0.0456	8.52	0.0954
MW013	5/12/2011	<0.0100	1	0.808	<0.100	<0.0500
	11/8/2011	<0.0100	0.39	0.404	<0.200	<0.0200
	5/17/2012	<0.00756 J	0.188	0.229	<0.0188	<0.00291
DUP	5/17/2012	<0.00756 J	0.219	0.232	<0.0188	<0.00291
	11/1/2012	<0.00756*	0.191	0.217*	<0.0188*	<0.002910*
DUP	11/1/2012	<0.00756*	0.227	0.181*	<0.0188*	<0.002910*
MW014	5/11/2011	0.021	<0.0100 J	<0.0500	<0.100	0.308
	11/7/2011	<0.0100	0.024	0.0352	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.287
	10/29/2012	<0.00756*	0.0275	0.0395*	<0.0188*	0.186*
MW015	5/11/2011	0.015	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	0.0208	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW018	5/11/2011	0.0112	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	0.0188	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW020	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW021	5/12/2011	0.0106	<0.0100 J	<0.0500	<0.100	0.754
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	0.621
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	1.13
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	1.52*
MW023	5/16/2011	<0.0100	1.02	0.978	<0.100	<0.0500
	11/8/2011	<0.0100	0.858	0.821	<0.200	<0.0200
	5/24/2012	<0.00756	1.96	1.86	<0.0188	<0.00291
	11/6/2012	<0.00756*	1.33	1.41*	<0.0188*	<0.002910*

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW024	5/12/2011	**0.0129**	**0.038**	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	**0.0451**	**0.0443**	<0.200	<0.0200
	5/22/2012	<0.00756	**0.0480**	**0.0479**	<0.0188	**0.108**
	11/1/2012	<0.00756*	**0.0508**	**0.0509***	<0.0188*	**0.0343***
MW025	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/22/2012	<0.00756	<0.00500	**0.0117**	<0.0188	0.0270
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW026	5/12/2011	**0.018**	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	**0.0113**	<0.200	<0.0200
DUP	11/8/2011	<0.0100	<0.0100	**0.0193**	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW027	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**0.0234***
MW028	5/12/2011	**0.0192**	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW029	5/11/2011	**0.0166**	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW030	5/12/2011	**0.0161**	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	**0.0152**	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW031	5/12/2011	**0.0197**	<0.0100 J	<0.0500	<0.100	**0.405**
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	**0.485**
	5/24/2012	**0.0227**	<0.00500	<0.00355	<0.0188	**0.499**
	10/31/2012	<0.00756*	<0.00500	<0.00355*	**0.692***	**0.588***

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW032	5/12/2011	<0.0100	0.012	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW033	5/12/2011	<0.0100	0.0483	<0.0500	<0.100	1.06
	11/7/2011	<0.0100	0.0466	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.576
	11/6/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.777*
MW034	5/12/2011	<0.0100	0.08	0.0737	<0.100	<0.0500
	5/8/2012	<0.00756	0.0879	0.0920	<0.0188	<0.00291
MW035	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	5/25/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.109
MW036	5/16/2011	0.0129 J	<0.0100	<0.0500	0.71	0.396
	5/25/2012	0.0408	<0.00500	<0.00355	1.20	0.329
MW037	5/17/2011	0.0287 J	<0.0100	<0.0500	1.33	<0.0500
DUP	5/17/11	0.0345	<0.0100	<0.0500	1.40 J	<0.0500
	5/25/2012	<0.00756	<0.00500	<0.00355	0.667	0.0897
MW038	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	0.179
	5/24/2012	<0.00756	<0.00500	<0.00355	0.700	0.233
MW043	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	0.472
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.569
MW044	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
MW045	5/16/2011	<0.0100	<0.0100	<0.0500	<0.100	0.183
	5/23/2012	<0.00756 J	<0.00500	0.0118	<0.0188	0.227
MW046	5/16/2011	0.0253 J	<0.0100	<0.0500	0.144	0.77
	5/23/2012	0.0122 J	<0.00500	<0.00355	1.63	1.05
MW047	5/16/2011	<0.0100	0.149	0.136	<0.100	<0.0500
	5/23/2012	<0.00756 J	0.142	0.145	<0.0188	<0.00291

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW058	5/13/2011	<0.0100	2.83	2.26	<0.100	<0.0500
	11/10/2011	<0.0100 J	0.0156	0.0177	<0.200	0.0332
	5/24/2012	<0.00756	0.0149	0.0175	<0.0188	<0.00291
DUP	5/24/2012	<0.00756	0.0132	0.0164	<0.0188	<0.00291
	11/6/2012	<0.00756*	2.76	2.70*	<0.0188*	<0.002910*
DUP	11/6/2012	<0.00756*	2.80	2.78*	0.287*	<0.002910*
MW059	5/16/2011	0.0107 J	<0.0100	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	0.0226
	5/24/2012	<0.00756	0.0451	0.0465	<0.0188	<0.00291
	11/2/2012	<0.00756*	0.495	0.493*	<0.0188*	<0.002910*
MW060	5/16/2011	0.0115 J	<0.0100	<0.0500	0.462	1.76
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	0.717	0.905
	10/31/2012	<0.00756*	<0.00500	<0.00355*	3.02*	1.27*
MW061	5/13/2011	<0.0100	0.285	0.236	<0.100	0.0919
	11/8/2011	<0.0100	0.26	0.263	<0.200	0.0942
	5/25/2012	<0.00756	0.251	0.243	<0.0188	0.0729
	11/2/2012	<0.00756*	5.01	4.79*	<0.0188*	<0.002910*
MW068	5/13/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
DUP	5/13/11	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/25/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW069	5/16/2011	<0.0100	<0.0100	<0.0500	<0.100	0.4
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.564
MW070	5/13/2011	0.0164	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/6/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW088M	5/11/2011	0.105	0.61	0.0808	7.38	11.5
	5/22/2012	0.158	0.117	0.122	14.1	15.6
MW094	11/17/2011	<0.0100	0.0424	0.0344	<0.200	<0.0200
	5/25/2012	<0.00756	<0.00500	0.0585	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW095	11/17/2011	<0.0100	3.71	3.59	<0.200	0.0892
	5/25/2012	<0.00756	4.68	4.46	<0.0188	0.0881
DUP	5/25/2012	<0.00756	4.87	4.58	<0.0188	0.0802
	10/31/2012	<0.00756*	4.98	5.18*	<0.0188*	<0.002910*
IW001	5/17/2011	0.0438	0.398	<0.0500	11.6 J	1.71
	5/25/2012	<0.0378	0.268	<0.0177	3.54	1.92
IW002	5/17/2011	<0.0100	0.474	<0.0500	7.57	0.803
	11/9/2011	0.0166 J	<0.0100	<0.0100	3.54	0.152
	5/25/2012	<0.0378	0.462	<0.0177	5.21	0.818
RW002	5/17/2011	0.0344	<0.0100	<0.0500	14.1 J	1.31
	5/22/2012	<0.00756	0.0448	0.0126	16.3	0.898
RW003	5/17/2011	<0.0100	<0.0100	<0.0500	35.4	0.797
	5/21/2012	<0.00756	<0.00500	<0.00355	19.0	0.931

Notes:

1. Dissolved Metals (Arsenic, Chromium, Hexavalent Chromium, Iron, Manganese). were analyzed by EPA Method 6010B/7196A.
2. New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A
3. mg/L (ppm) - milligrams per liter (parts per million).
4. Bold indicates that a COC was detected.
5. Shading indicates that a detected result exceeded the NMWQCC Standard.
6. <#.####-Not detected at or above MDL for 2012 and RL for 2011.

* - result measured as total, not dissolved

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
Deep Monitor Wells						
MW002A	5/25/2011	**0.0141 J**	**0.0253**	<0.0500	<0.100	<0.0500
	5/24/2012	<0.00756	**0.0254**	**0.0298**	<0.0188	<0.00291
MW004A	5/24/2011	**0.0153**	**0.145**	**0.126**	<0.100	<0.0500
	5/22/2012	<0.00756	**0.401**	**0.385**	<0.0188	<0.00291
MW007A	5/24/2011	**0.0211 J**	**0.315**	0.299	<0.100	<0.0500
	5/22/2012	<0.00756	**0.290**	**0.288**	<0.0188	<0.00291
MW008A	5/26/2011	**0.0937 J**	<0.100	**0.0938**	**71.1**	**0.908**
	5/25/2012	**0.105**	**0.633**	**0.0721**	**4.42**	**0.458**
MW009A	5/25/2011	**0.0116 J**	**0.028**	**0.0665**	<0.100	<0.0500
DUP	5/25/2011	**0.0156 J**	**0.0187**	<0.0500	<0.100	<0.0500
	5/22/2012	<0.00756	**0.630**	**0.630**	<0.0188	**0.0230**
MW011A	5/25/2011	<0.0100	**3.27**	**3.22**	<0.100 J	<0.0500
DUP	5/25/2011	<0.0100	**3.1**	**3.2**	**0.357 J**	**0.055**
	5/22/2012	<0.00756 J	**1.72 J**	**1.82**	<0.0188	**0.0498**
MW012A	5/25/2011	**0.0250 J**	<0.0100	<0.0500	**0.262**	<0.0500
	5/22/2012	<0.00756	<0.00500	<0.00355	<0.0188	**0.0674**
MW013A	5/19/2011	**0.0105**	**0.0105**	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW014A	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW015A	5/18/2011	<0.0100	<0.100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW016A	5/17/2011	<0.0100	<0.0100	<0.0500	**0.437**	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW017A		Plugged and Abandoned				
MW018A	5/24/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW019A	5/17/2011	**0.0101**	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100 J	<0.0100	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW020A	5/16/2011	**0.0406 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	<0.0100 J	**0.0129**	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW021A	5/23/2011	**0.0226**	<0.0100	<0.0500	<0.100	<0.0500
	11/17/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
DUP	11/17/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/8/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**0.705***
MW022A	5/25/2011	**0.0111 J**	**0.0351**	<0.0500	<0.100	<0.0500
DUP	5/25/2011	**0.0109 J**	**0.0342**	<0.0500	<0.100	<0.0500
	11/17/2011	<0.0100	**0.0598**	**0.0563**	<0.200	<0.0200
	5/23/2012	<0.00756 J	**0.0356**	**0.0408**	<0.0188	<0.00291
	11/9/2012	<0.00756*	**0.0580**	**0.0730***	<0.0188*	<0.002910*
MW023A	5/18/2011	**0.014**	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100	<0.0100 J	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	**0.0206**	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW024A	5/18/2011	<0.0100	**0.0481**	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	**0.21**	**0.185**	<0.200	<0.0200
	5/18/2012	<0.00756	**0.186**	**0.183**	<0.0188	<0.00291
	10/30/2012	<0.00756*	**0.196**	**0.192***	<0.0188*	<0.00291*

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW039A	5/26/2011	**0.0220 J**	**0.093**	**0.0986**	<0.100	<0.0500
	5/25/2012	<0.00756	**0.0974**	**0.102**	<0.0188	<0.00291
DUP	5/25/2012	<0.00756	**0.0984**	**0.103**	<0.0188	<0.00291
MW040A	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW041A	5/24/2011	**0.0163 J**	**0.206**	**0.239**	<0.100	<0.0500
	5/8/2012	<0.00756	**0.212**	**0.257**	<0.0188	<0.00291
MW042A	5/25/2011	**0.0125 J**	**0.0343**	<0.0500	<0.100	<0.0500
DUP	5/25/2011	**0.0114 J**	**0.0345**	<0.0500	<0.100	<0.0500
	5/25/2012	<0.00756	**0.0329**	**0.0357**	<0.0188	<0.00291
MW046A	5/25/2011	**0.0113 J**	**0.0611**	**0.0597**	<0.100	<0.0500
DUP	5/25/2011	<0.0100	**0.0606**	**0.062**	<0.100	<0.0500
	5/23/2012	<0.00756 J	**0.0571**	**0.0634**	<0.0188	<0.00291
MW048SA	5/24/2011	**0.0422 J**	**0.393**	**0.42**	<0.100	<0.0500
	11/16/2011	<0.0100	**0.381**	**0.374**	<0.200	<0.0200
	5/16/2012	<0.00756	**0.410**	**0.414**	<0.0188	<0.00291
	11/8/2012	<0.00756*	**0.449**	**0.455***	**0.340***	<0.002910*
DUP	11/8/2012	<0.00756*	**0.451**	**0.440***	**0.289***	**0.0209 J***
MW049SA	5/23/2011	**0.014**	**0.12**	**0.109**	<0.100	<0.0500
	5/17/2012	<0.00756 J	**0.127**	**0.124**	<0.0188	<0.00291
MW050SA	5/23/2011	**0.0134**	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
MW051SA	5/23/2011	**0.0115**	**0.808**	**0.704**	<0.100	<0.0500
	5/16/2012	<0.00756	**0.791**	**0.783**	<0.0188	<0.00291
DUP	5/16/2012	<0.00756	**0.813**	**0.781**	<0.0188	<0.00291
MW052SA	5/23/2011	**0.0179**	**0.279**	**0.264**	<0.100	<0.0500
	5/16/2012	<0.00756	**0.265**	**0.272**	<0.0188	<0.00291
MW053SA	5/24/2011	**0.0234 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/16/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/9/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW054SA	5/24/2011	**0.0115**	**0.135**	**0.125**	<0.100	<0.0500
	11/16/2011	<0.0100	**0.148**	**0.153**	<0.200	<0.0200
	5/16/2012	<0.00756	**0.144**	**0.148**	<0.0188	<0.00291
	11/7/2012	<0.00756*	**0.148**	**0.153***	<0.0188*	<0.002910*
DUP	11/7/2012	<0.00756*	**0.149**	**0.154***	<0.0188*	<0.002910*
MW055SA	5/24/2011	**0.0128**	**0.183**	**0.164**	<0.100	<0.0500
	11/16/2011	<0.0100	**0.215**	**0.339**	<0.200	<0.0200
	5/16/2012	<0.00756	**0.165**	**0.166**	<0.0188	<0.00291
DUP	5/16/2012	<0.00756	**0.165**	**0.179**	<0.0188	<0.00291
	11/7/2012	<0.00756*	**0.161**	**0.165***	<0.0188*	<0.002910*
DUP	11/7/2012	<0.00756*	**0.161**	**0.166***	<0.0188*	<0.002910*
MW056SA	5/17/2011	<0.0100	**0.401**	**0.335**	<0.100	<0.0500
	11/17/2011	<0.0100	**0.345**	**0.202**	<0.200	<0.0200
	5/16/2012	<0.00756	**0.379**	**0.407**	<0.0188	<0.00291
DUP	5/16/2012	<0.00756	**0.377**	**0.384**	<0.0188	<0.00291
	11/8/2012	<0.00756*	**0.420**	**0.416***	<0.0188*	<0.002910*
MW057SA	5/17/2011	**0.0112 J**	**0.0287**	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	**0.0158**	**0.0207**	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	**0.0124**	**0.0129***	<0.0188*	<0.002910*
MW062A	5/19/2011	**0.0192**	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
DUP	11/10/2011	**0.0118 J**	<0.0100	<0.0100	<0.200	**0.0227**
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	**0.0277**
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW063A	5/19/2011	**0.0121**	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW064SA	5/10/2011	**0.0227 J**	**0.114**	**0.108**	<0.100	<0.0500
	11/10/2011	<0.0100 J	**0.0724**	**0.0667**	<0.200	<0.0200
	5/11/2012	<0.00756	**0.0745**	**0.0770**	<0.0188	<0.00291
	10/30/2012	<0.00756*	**0.0792**	**0.0808***	<0.0188*	<0.00291*

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW065SA	5/19/2011	<0.0100	**0.0706**	**0.0604**	<0.100 J	<0.0500
	11/14/2011	<0.0100	**0.117**	**0.113**	<0.200	<0.0200
	5/9/2012	<0.00756	**0.220**	**0.206**	<0.0188	<0.00291
DUP	5/9/2012	<0.00756	**0.221**	**0.218**	<0.0188	<0.00291
	11/1/2012	<0.00756*	**0.269**	**0.270***	<0.0188*	<0.002910*
DUP	11/1/2012	<0.00756*	**0.284**	**0.274***	<0.0188*	**0.0228 J***
MW066SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	**0.634**
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	**0.739**
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	**0.534**
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**1.01***
MW067SA	5/19/2011	**0.0386 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW070A	5/18/2011	**0.0103**	<0.0100	<0.0500	<0.100 J	<0.0500
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
MW071SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	**0.114**
	11/14/2011	<0.0100	<0.0100	**0.0114**	<0.200	<0.0200
	5/8/2012	<0.00756	<0.00500	**0.0174**	<0.0188	**0.0888**
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**0.168***
MW072SA	5/24/2011	0.0155 J	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW073SA	5/19/2011	**0.0119 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW074SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100	<0.0100 J	**0.0186**	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	**0.0135**	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW075SA	5/10/2011	**0.0141 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW076SA	5/10/2011	**0.0162 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
MW077SA	5/10/2011	**0.0208 J**	<0.0100 J	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	**0.0486**
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW078SA	5/19/2011	**0.0112 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW079SA	5/23/2011	<0.0100	**0.0142**	<0.0500	<0.100	**0.0541**
	11/15/2011	<0.0100	**0.016**	<0.0100	<0.200	**0.0395**
	5/9/2012	<0.00756	**0.0355**	<0.00355	<0.0188	**0.0671**
	11/7/2012	<0.00756*	<0.00500	<0.00355*	**0.214***	**0.0585***
MW080SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/7/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW081SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	**0.0281**
	11/7/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**0.0712***
MW082SA	5/10/2011	**0.0192 J**	<0.0100	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	**0.457**	**0.151**
	5/11/2012	<0.00756	**0.0620**	<0.00355	**0.576**	**0.139**
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	**0.164***

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
MW083SA	5/9/2011	0.0399 J	<0.0100 J	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	<0.0100 J	<0.0100	<0.200	0.369
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
MW084SA	5/10/2011	0.0110 J	0.0431	<0.0500	0.382	0.248
	11/10/2011	<0.0100 J	0.0435	0.0451	<0.200	0.0251
	5/11/2012	<0.00756	0.0397	0.0405	<0.0188	<0.00291
	10/30/2012	<0.00756*	0.0377	0.0388*	<0.0188*	<0.00291*
MW085SA	5/9/2011	0.0154 J	<0.0100 J	<0.0500	1.05	0.244
	11/10/2011	<0.0100 J	<0.0100	<0.0100	1.19	0.896
	5/11/2012	<0.00756	0.0895	<0.00355	0.980	0.737
	10/31/2012	<0.00756*	<0.00500	<0.00355*	0.920*	0.668*
MW086SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	0.0261	<0.200	<0.0200
	5/8/2012	0.0167	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.0398*
MW087A	5/26/2011	0.0219 J	<0.0100	0.112	<0.100	<0.0500
	5/25/2012	<0.00756	0.0479	0.0996	0.320	0.0216
MW089SA	5/24/2011	0.0172 J	1.09	1.07	<0.100	<0.0500
	5/22/2012	<0.00756	0.0195	0.0226	<0.0188	<0.00291
	5/22/2012	<0.00756	0.0177	0.0220	<0.0188	<0.00291
MW090SA	5/25/2011	0.0129 J	0.0199	<0.0500	<0.100	<0.0500
DUP	5/25/2011	0.0138 J	0.0208	<0.0500	<0.100	<0.0500
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
MW091SA	5/24/2011	<0.0100	0.0217	<0.0500	<0.100	<0.0500
	5/8/2012	<0.00756	0.0510	0.0567	<0.0188	<0.00291
MW092SA	5/23/2011	0.0152	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	0.0129	<0.0188	<0.00291
MW093SA	5/23/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
IW003	5/20/2011	0.0502 J	<0.100	<0.0500	17.5	9.39
	5/11/2012	0.0111	0.115	<0.00355	3.60	5.12

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
IW004	5/20/2011	<0.0100	<0.100	<0.0500	0.318	2.36
	5/11/2012	<0.00756	0.0125	0.0128	0.227	3.88
IW005	5/20/2011	0.0605 J	<0.100	<0.0500	16.2	3.93
	5/11/2012	<0.00756	0.109	0.0162	3.25	3.78
IW006	5/20/2011	0.0371 J	<0.100	<0.0500	5.04	4.63
	5/11/2012	<0.00756	0.0276	<0.00355	0.960	2.50
IW007	5/19/2011	0.178 J	0.366	<0.0500	17.2	3.62
	5/15/2012	0.131 J	0.670	0.0360	15.3	4.43
IW008	5/20/2011	0.0367 J	<0.100	<0.0500	2.33	2.65
	5/15/2012	0.0335 J	0.0747	<0.00355	1.39	2.86
IW009	5/20/2011	0.0517 J	0.123	<0.0500	9.43	17.6
IW010	5/20/2011	<0.0100	<0.100	<0.0500	10.5	6.99
	5/15/2012	<0.00756 J	0.0257	<0.00355	1.86	10.1
IW011	5/20/2011	0.0788 J	<0.100	<0.0500	1.65	1.38
	5/15/2012	0.0363 J	0.0807	<0.00355	1.70	1.48
IW012	5/20/2011	0.128 J	0.491	<0.0500	14.6	1.16
IW013	5/20/2011	<0.0100	<0.100	<0.0500	0.127	0.186
	5/15/2012	<0.00756 J	0.0116	<0.00355	0.301	0.220
IW014	5/20/2011	0.109 J	0.453	<0.0500	3.23	0.363
	5/15/2012	0.0336 J	0.540	<0.00709	1.71	0.388
DUP	5/15/2012	0.0620 J	0.558	<0.00709	1.90	0.345
IW015	5/20/2011	0.0546 J	<0.100	<0.0500	6.9	0.246
	5/11/2012	0.0210	0.107	0.0202	2.19	0.274
IW016	5/20/2011	0.0331 J	<0.100	<0.0500	5.2	0.611
	5/9/2012	0.0817	0.0642	<0.00355	0.791	0.334
IW018	5/23/2011	0.0107	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
IW019	5/23/2011	**0.0178**	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
IW020	5/23/2011	**0.0121**	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
IW021	5/23/2011	**0.0102**	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
IW022	5/24/2011	0.0109	**0.0244**	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	**0.0499**	**0.0533**	<0.0188	<0.00291
IW023	5/24/2011	<0.0100	**0.0199**	<0.0500	<0.100	<0.0500
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
IW024	5/24/2011	<0.0100	**0.185**	**0.169**	<0.100	<0.0500
	5/24/2012	<0.00756	**0.107**	**0.106**	<0.0188	<0.00291
IW025	05/25/11	Not Sampled - Well Silted In				
	5/24/2012	<0.00756	**0.0312**	**0.0777**	**1.20**	**0.223**
IW026	05/25/11	Not Sampled - Well Silted In				
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
IW027	5/24/2011	**0.0122**	**0.0153**	<0.0500	<0.100	<0.0500
	5/23/2012	<0.00756 J	**0.0105**	**0.0157**	<0.0188	<0.00291
IW028	5/23/2011	**0.0127**	**0.052**	<0.0500	<0.100	<0.0500
	5/22/2012	<0.00756	**0.0144**	**0.0203**	<0.0188	**0.0258**
	5/22/2012	<0.00756	**0.0132**	**0.0185**	<0.0188	<0.00291
RW004A	5/25/2011	**0.0265 J**	<0.100	<0.0500	**367**	**10.7**
DUP	5/25/2011	**0.0228 J**	<0.100	**0.0715**	**589**	**11.3**
	5/25/2012	<0.0378	**2.96**	<0.0177	**9.80**	**1.16**
Water Wells						
EPWW1	5/18/2011	<0.0100	<0.100	<0.0500	<0.100 J	<0.0500
	5/21/2012	<0.00756	**0.968**	**0.0475**	**0.301**	**0.0494**
GOPWW2	5/25/2011	**0.0203 J**	<0.0100	<0.0500	<0.100	**0.884**
	11/17/2011	<0.0100	<0.0100	<0.0100	**0.436**	**1.05**
	5/8/2012	**0.0710**	<0.00500	<0.00355	<0.0188	**1.05**
	11/1/2012	<0.00756*	<0.00500	<0.00355*	**17.2***	**1.80***

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard[2] mg/L		0.1	0.05	0.05	1	0.2
LordWW	5/26/2011	<0.0100	<0.0100	<0.0500	**0.593**	**0.133**
	11/10/2011	<0.0100	<0.0100 J	<0.0100	**2.24**	**0.126**
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	**0.115**
	10/26/2012	<0.00756*	<0.00500	<0.00355*	**9.71***	**0.208***
RolandWW	5/25/2011	<0.0100	<0.0100	<0.0500	**0.165**	**0.0539**
DUP	5/25/2011	<0.0100	<0.0100	**0.0564**	**0.24**	**0.0563**
WoodellWW	5/25/2011	**0.0144 J**	**0.0176**	<0.0500	<0.100	<0.0500
DUP	5/25/2011	<0.0100	**0.0176**	<0.0500	<0.100	<0.0500
	5/16/2012	<0.00756	**0.0380**	**0.0421**	<0.0188	<0.00291
	10/31/2012	<0.00756*	**0.0285**	**0.0314***	<0.0188*	<0.002910*

Notes:

1. Dissolved Metals (Arsenic, Chromium, Hexavalent Chromium, Iron, Manganese) were analyzed by EPA Method 6010B/7196A.
2. New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A
3. mg/L (ppm) - milligrams per liter (parts per million)
4. Bold indicates that a COC was detected.
5. Shading indicates that a detected result exceeded the NMWQCC Standard.
6. <#.#### - Not detected at or above MDL for 2012 and RL for 2011.

* - result measured as total, not dissolved

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard[3]		0.01	0.75	0.75	0.62	--	--
Shallow Monitor Wells							
MW001	5/11/11	<0.0010	<0.0010	0.00378	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	0.00236	<0.000700	<1.50	<1.50
MW002	5/16/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW004	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
Dup	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW005	5/17/11	0.141	<0.0020	0.0116	0.00452	<1.50	<1.50
	5/24/12	0.188	<0.00100	0.142	0.00288	<1.50	<1.50
MW006	5/17/11	2.25	<0.0400	0.142	<0.0200	<1.50	2.89
MW007	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW008	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
DUP	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW008M	5/11/11	0.00130	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW009	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW010	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW011	5/16/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW011M	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
DUP	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW012	5/13/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW012M	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard[3]		0.01	0.75	0.75	0.62	--	--
MW013	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
Dup	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
Dup	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW014	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW015	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW018	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW020	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW021	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW023	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW024	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW025	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard[3]		0.01	0.75	0.75	0.62	--	--
MW026	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
DUP-2	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW027	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW028	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW029	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
DUP-1	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW030	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW031	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW032	5/12/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW033	5/12/11	**0.112**	<0.0020	**0.123**	<0.0010	<1.50	<1.50
	11/7/11	**0.116**	<0.00200	**0.158**	<0.00100	<1.50	<1.50
	5/17/12	**0.0112**	<0.00100	**0.00451**	<0.000700	<1.50	<1.50
	11/6/12	**0.117**	<0.00100	**0.105**	<0.000700	<0.988	<0.988
MW034	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW035	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
MW036	5/16/11	**0.0849 J**	**0.00224 J**	**0.00543 J**	**0.539 J**	<1.50	**2.18**
	5/25/12	**0.0621**	**0.00200**	**0.0147**	**0.592**	<1.50	**3.29**

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard[3]		0.01	0.75	0.75	0.62	--	--
MW037	5/17/11	2.46	<0.0020	0.203 J	<0.0010	2.70	3.07
DUP	5/17/11	2.14 J	<0.0400	0.224 J	<0.0200	2.41	2.60
	5/25/12	0.105	<0.00100	0.00895	0.00308	<1.50	<1.50
MW038	5/11/11	0.00494	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW043	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW044	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
MW045	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	0.00110	<0.000700	<1.50	<1.50
MW046	5/16/11	0.0305	<0.0020	0.0569	0.0120	<1.50	<1.50
	5/23/12	0.0398	<0.00100	0.0791	0.0131	<1.50	<1.50
MW047	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW058	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
Dup	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
Dup	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW059	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW060	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	0.00359	<0.00100	0.00371	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW061	5/13/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard[3]		0.01	0.75	0.75	0.62	--	--
MW068	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
DUP	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW069	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW070	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW088M	5/11/11	**0.00113**	<0.0020	**0.00205**	<0.0010	**6.77**	**15.6**
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50 J	<1.50 J
MW094	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW095	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
Dup	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
IW001	5/17/11	<0.0010	0.00311	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	0.00279	<0.000700	<0.000700	<1.50	<1.50
IW002	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
RW002	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
RW003	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50

Notes:

1. Benzene, Toluene, Ethylbenzenes & Total Xylenes were analyzed by EPA Method 8021B.
2. Total Petroleum Hydrocarbons (DRO/GRO) were analyzed by 8015M.
3. New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A
4. mg/L (ppm) - milligrams per liter (parts per million).
5. NA - Not Analyzed.
6. Bold indicates that a COC was detected.
7. Shading indicates that a detected result exceeded the NMWQCC Standard.
8. <#.####-Not detected at or above MDL for 2012 and RL for 2011.