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Oil Conservation Division Environmental Bureau

Sandra Griffin Task Manager

Steven P. Tischer

Remediation Department Manager

Allan T. Schmidt

Vice President/Regional Manager

Groundwater Investigation and Remediation Activities Report 2005

Chevron Eunice #2 (North) Plant

Prepared for

Chevron North America Exploration and Production

Prepared by:
ARCADIS G&M, Inc.
1004 N. Big Spring Street
Suite 300
Midland,
Texas 79701
Tel 432.687.5400
Fax 432.687.5401

Our Ref.:

MT000884.00001

Date:

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1 Introduction

This report is intended to provide a comprehensive summary of the results of the current groundwater investigation and remediation activities conducted by ARCADIS G&M, Inc. (ARCADIS) at the Eunice #2 (North) Gas Plant (Site). The Site is located on the northern edge of the town of Eunice, Lea County, New Mexico (see Figure 1). This report has been compiled by ARCADIS on behalf of Chevron North America Exploration and Production (Chevron). This report begins at the conclusion of the *Groundwater Investigation and Remediation Activities Report 2004* and concludes with the completion of the May/June 2005 sampling event.

1.1 Purpose and Objectives of Investigation

The purpose of the current investigation is to monitor and document the extent of environmental impacts with respect to the following issues:

- 1. The horizontal and vertical extent of chromium, hydrocarbon and dissolved solids impacts in the groundwater associated with the Site;
- 2. Groundwater hydrogeologic parameters;
- 3. Possible receptors; and
- 4. Effectiveness of In-situ Reactive Zone (IRZ) technology for groundwater chromium remediation.

To accomplish the purpose of the current investigation, specific objectives included the following:

- 1. Identification of the properties and pathways by which migration occurred in the past, may currently be occurring, or may occur in the future;
- 2. Delineation of areas where the groundwater has been impacted beyond the boundary of the Site;
- 3. Development of physical and chemical data relating to impacted groundwater at the Site for the purpose of implementing remedial alternatives; and
- 4. Additional IRZ Implementation and monitoring.

These objectives have been accomplished by the following activities:

1. Collection of groundwater analytical data during semi-annual sampling events and preparation of isoconcentration maps to determine the nature and extent of

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constituents of concern (COCs), and observation of general groundwater quality trends;

- 2. Collection of field parameters during sampling events;
- 3. Quarterly measurements of water levels and preparation of potentiometric surface maps for the purpose of estimating groundwater flow direction and rate of movement;
- 4. Continuation of the IRZ remediation Phase 1 and Phase 2 project to evaluate the effectiveness of this remediation method;
- 5. Initiation of an IRZ remediation constant feed system; and
- 6. Installation of 11 injection wells and 5 monitoring wells for evaluation of the medial array of the chromate plume.

1.2 Site Background and Location

A natural gas processing plant was constructed in the 1940s and operated on the Site from the 1940s through the 1980s. The Site is no longer being operated as a gas plant. It has been partially dismantled and is currently being operated as a natural gas compressor station by Dynegy Midstream Services, L.P. (Dynegy). The Site is located approximately 0.25 miles north of the town of Eunice, New Mexico, in the south half (S/2) 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) Lea County, New Mexico. Figure 1 presents the Site Location Map.

2 Executive Summary

This is the second annual report detailing the ongoing investigation and remediation activities at the North Eunice site. Previous reports completed by ARCADIS and earlier investigators presented the results of groundwater and soil investigations and outlined the initiation of remediation activities at the site. Three COCs remain on-site affecting groundwater quality: chromate; hydrocarbons; and chloride. Where the chromate and hydrocarbon contaminants intermix in the groundwater, a reduction in the chromate concentration has been noted indicating that a naturally occurring remediation process is on-going. Current remediation efforts utilize an expansion and enhancement of this natural process.

Wells within the subject area have been sampled and analyzed semi-annually for the COCs and for other compounds. Results of the laboratory analyses for the COCs are compared to the Primary and Secondary Drinking Water Standards established by the United States Environmental Protection Agency (EPA) for public drinking water

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supplies. The EPA's primary drinking water standard for a particular constituent is also known as the maximum contaminant level (MCL). The EPA's secondary standard for a constituent is known as a secondary level (SL).

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2.1 Groundwater Chromium

The results of investigations at the Site indicate that water containing dissolved chromium, most likely originating from surface sources, has apparently percolated into the groundwater south and southwest of the plant site and possibly within the plant site itself. Historic pumping from a water well located at the northern edge of the plant (EPWW1), as well as groundwater recharge (possibly due to landscape irrigation) and resultant mounding associated with the residential neighborhood located to the south and southwest of the plant, has altered the natural eastward direction of groundwater flow. In this area, the hydraulic gradient in the groundwater is generally northwest, north and northeast toward the plant site. Thus, chromium in the groundwater follows this same flow path. In the area of the plant, the natural groundwater gradient once again dominates, shifting the flow eastward.

The chromium plume within the Ogallala Aquifer at and in the vicinity of the plant site has been fully defined and delineated. The Ogallala Aquifer underlying the Site has poor but definite vertical hydraulic continuity, resulting in stratified concentrations of chromium within the aquifer. The chromium impact has been evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow" Ogallala Aquifer zones. Previous reports referred to both "shallow" and "shallow/middle" zones within the Ogallala Aguifer. For simplicity in this report, the term "shallow" refers to both of the previously identified "shallow" and "shallow/middle" zones. An exception to this terminology is found in report sections 4.1.7 and 5.2.1 discussing the evaluation of the effects of the IRZ injection program where there are enough monitor screened wells with discrete intervals to allow for an evaluation of greater stratigraphic detail. As noted in the maps attached to this report, the chromium impact in the shallow portion of the Ogallala in the plant site area covers a larger area than the chromium plume in the deep portion of the aquifer. This results in the shallow chromium plume overlying portions of the deep zone that contain chromium below the MCL. This stratification of the chromium is indicative of the sometimes poor vertical hydraulic continuity and groundwater flow.

The highest concentrations of chromium in the deep zone of the aquifer occur to the southwest of the plant site and appear to move with the hydraulic gradient to the north and then eastward. The deep zone hydraulically merges with the shallow zone of the aquifer east of the plant site as the aquifer thins in gross saturated thickness. From this point of merger eastward, the aquifer is considered both geologically and

hydrologically to be part of the deep zone. All monitor wells drilled east of the merger fully penetrate, and are screened throughout, the saturated portion of the aquifer.

In the shallow zone of the aquifer, the highest chromium concentrations occur southwest of the plant site, under the southern part of the plant site, and in an area immediately to the east of the plant site.

Elevated hydrocarbon concentrations were observed in the groundwater at the northeast, east, and southeast areas of the plant. This hydrocarbon plume lies near the center of the chromate plume and consists of light phase-separated and dissolved components. Chromate concentrations were reported at significantly lower levels than anticipated within the area where the chromate and hydrocarbon plumes intermix and in monitor wells located immediately downgradient of the hydrocarbon-impacted monitor wells.

The reduction in chromate concentrations in the region of chromate and hydrocarbon intermixing is due to the biogeochemical reduction of hexavalent chromium to trivalent chromium and the resulting precipitation and filtration of the trivalent chromium in the geologic matrix of the aquifer. The naturally-occurring microorganisms have fed upon the hydrocarbon impacting the aquifer, not only consuming the oil, but developing a chemically reducing environment within the aquifer which precipitates the chromium. The resulting chromium precipitate is filtered from the groundwater by the natural filtering properties of the rock composing the aquifer. This has resulted in dramatic reductions in chromium concentrations within the aquifer. In addition, the chromium may also be directly reacting with the hydrocarbon chemically. In the area where the dissolved hydrocarbon exists, chromium concentrations have been reported at concentrations below laboratory quantitation limits. This process, which has been naturally occurring within the aquifer, is being expanded, modified, and specifically engineered to remediate the chromate plume in an IRZ process.

The Phase I IRZ chromate remediation program has been designed to evaluate a potentially complex multi-layer hydrogeologic system, exploiting the Site hydrodynamics and biogeochemistry in order to optimize the design and implementation of a full-scale system in the most cost-effective and time-efficient manner possible.

In the IRZ remediation technique currently in use at the Site, a carbohydrate solution, consisting of food-grade molasses, is being substituted for the hydrocarbon as a more efficient and controllable food source for the microorganisms naturally occurring within the aquifer. The chromate IRZ groundwater remediation began with the Phase I installation of three injection wells and associated monitor wells located between 200 and 800 feet to the southwest of the Site in the Study Area. Once the plume was

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completely delineated, a line of 14 injection wells was drilled and completed near the downgradient distal (eastern) end of the chromate plume 2,800 feet to the east of the plant site. This line of injection wells has been situated to intercept, and with the injection of the carbohydrate solution (food-grade molasses), remediate the chromate plume as it flows naturally through the treatment area eastward. Additional monitor wells have also been drilled and completed to more fully delineate the extent of the chromate plume and to monitor the effects of the remediation efforts.

The Study Area IRZ monitor wells have indicated reductions of hexavalent and dissolved chromium since the pilot program began in June 2003. Reductions in both hexavalent and dissolved chromium have been gradual because of the hydrogeologic complexity of the aquifer in the Study Area. The distal end IRZ monitor wells exhibited immediate reductions of hexavalent and dissolved chromium. The immediate reductions in both chromium analytes may be attributed to increased hydraulic velocities in the vicinity of the distal end IRZ array.

2.2 Groundwater Hydrocarbons

The dissolved hydrocarbon plume in the Ogallala Aquifer groundwater associated with the plant site has been fully defined. Only a small area of groundwater located within the Site boundary has benzene above the EPA MCL for drinking water. A second small area of groundwater containing benzene above the MCL is located south of the plant site, but does not appear to be related to the historic plant operations. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbon (TPH) concentrations also exist at the locations where benzene has been detected, and TPH has been identified east of the plant site at a location unrelated to historic plant operation.

As noted above, the hydrocarbons in the groundwater are assisting in the remediation of the chromium by providing carbohydrate solution to the groundwater, encouraging the proliferation of bacteria. This in turn produces a reducing environment within the aquifer resulting in chemical precipitation of the chromium.

Phase-separated hydrocarbons (PSH) have been observed in two wells located near the eastern edge of the plant and were being removed on a weekly basis until September 30, 2005. The volume of recovered hydrocarbons from MW006 has varied from 0.5 to 5.5 gallons per removal event. MW005 has had only sheen of PSH on the water surface, and no PSH was recovered during this reporting period. In order to assist in chromium removal, as described in Section 2.1, and as long as the hydrocarbon plume does not materially migrate, groundwater hydrocarbon remediation will be initiated at a later date, but PSH will continue to be removed.

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2.3 Groundwater Dissolved Solids

Elevated dissolved solids impacts to the Ogallala Aquifer at the Site have also been identified. The dissolved solids present in the groundwater samples have been quantified by laboratory analysis as total dissolved solids (TDS). For the purposes of this report, only the chloride ion will be identified as a COC.

Most of the elevated chloride concentrations appear to be unrelated to historic plant activities. The highest concentrations appear at locations southwest and south of the Site (hydraulically upgradient) and east of the Site (hydraulically downgradient). The sources of the high chloride concentrations have not yet been identified with any certainty. There are no immediate plans to remediate the elevated chlorides in the aquifer. They will continue to be monitored.

3 Physical Characteristics of the Area

The following sections identify the physical characteristics of the Site and surrounding area including the physiological, topographical, geological and hydrological conditions.

3.1 Physiology

The Site lies in southern Lea County, which is located in the Pecos Valley section of the Great Plains physiographic province. The Site lies within the Eunice Plain, which is bounded by the South Plain to the south, Rattlesnake Ridge to the east, the High Plains to the northeast, the Laguna Valley and Grama Ridge Area to the northwest, the San Simon Ridge and San Simon Swale to the west and the Antelope Ridge Area to the southwest. An estimated 80% of southern Lea County is covered by sand. Shin oak, bear grass and bur-grass dominate the areas of sand cover. Elsewhere, the vegetation is grama grass, bur-grass and mesquite.

3.2 Topography

Monument Draw is the only major surface drainage feature in southern Lea County. The draw runs north to south slightly over two miles east of the Site. The topography in the area of the plant slopes gently to Monument Draw at an approximate dip of 35 feet per mile. Small closed basins or playas exist on this sloping surface. The sewage treatment plant for the town of Eunice lies approximately 4,300 feet southeast of the southeast corner of the Site and northeast of the center of Eunice.

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3.3 Geology

The geologic formations of interest at the Site include (from oldest to youngest), the Triassic Chinle, Cretaceous undifferentiated, Tertiary Ogallala and Quaternary aeolian sedimentation, designated the Blackwater Draw Formation. Of particular interest with regard to the impact of COCs released to groundwater are the Tertiary Ogallala and Quaternary Blackwater Draw.

3.3.1 Triassic Chinle Formation

The Triassic Chinle Formation is composed of red and green claystone, with minor fine-grained sandstones and siltstones. It is found to exist under all of the eastern part of southern Lea County, thinning to the west and absent in the extreme western part of the county. The Chinle forms the base of the fresh groundwater due to the formation's low vertical (and generally horizontal) permeability that impedes most vertical groundwater movement into the formation. The top of the Chinle (base of the Ogallala Aquifer) is an erosional surface that rises in elevation from west to east under the plant site. Just east of the plant, the Chinle top begins to dip down toward Monument Draw as illustrated in the West-East cross-section (see Figure 27).

3.3.2 Cretaceous Formations Undifferentiated

The Cretaceous formations, undifferentiated, have almost all been removed by erosion and are essentially nonexistent in the Site area. The only known exposure of Cretaceous rocks consists of large slump blocks of limestone in a gravel pit east of the town of Eunice. Semi-consolidated sands and gravels of possible lower Cretaceous, the equivalent of the Paluxy sand, have been described from exposures in gravel pits east of Eunice. However, the sand and gravel sequence also has characteristics of the Tertiary Ogallala described below. The Cretaceous has not been encountered at the Site.

3.3.3 Tertiary Ogallala Formation

The lower Tertiary Ogallala Formation is composed of fluvial sediments of the Miocene-Pliocene epochs. It is a heterogeneous combination of clay, silt, sand and gravel of braided-stream deposits interbedded with, and overlain by, aeolian sediments deposited as sand sheets and loess resting directly upon an erosional surface carved into the Triassic Chinle Formation under the Site (See Figures 27, 28 and 29). The fluvial sediments were deposited on a sloping plain in the form of coalescing alluvial fans, by streams that originated in the Rocky Mountains to the west and northwest. The Ogallala Formation was deposited in laterally restricted lenses of material, predominantly medium to yellowish-gray conglomeratic sandstone and fine to

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medium-grained well-sorted sandstone. The primary fresh water-bearing formation under and in the vicinity of the plant site is the Ogallala.

In contrast to the fluvial deposition of the lower Ogallala sediments, the upper part of the Ogallala and all of the Blackwater Draw Formation overlying the Ogallala are composed of windblown (aeolian) deposits. In exposures and cores described in the literature, the very fine sand facies of the upper Ogallala are thick, ranging up to 125 feet and capped by the Caprock caliche or calcrete. The Caprock caliche marks the top of the Ogallala.

3.3.4 Quaternary Blackwater Draw Formation

The Blackwater Draw Formation occurs as a mantle of Quaternary aeolian sediment locally as thick as 100 feet, covering an area of the Southern High Plains of northeastern Texas and eastern New Mexico. Throughout the depositional time of the Blackwater Draw Formation, laterally restricted lenticular layers of aeolian and playa or lacustrine facies were formed. The Blackwater Draw Formation occurs near the ground surface at the plant site and contains reddish sediments composed of up to six well-developed buried soils with similar features of lithology and morphology. The soil development occurred during periods of landscape stability, separated by intermittent periods of deposition, or by deflation that stripped surface horizons from newly developed soils.

3.4 Hydrology

The primary source of fresh water at the Site is the Ogallala Formation. It is bounded on the base of the aquifer by an eroded surface of firm, red, silty clay of the Chinle Formation. The base of the Ogallala is composed of a 5- to 10-foot interval of gravel/sand/clay, which in this study is informally termed the "deep" water-bearing zone in the Ogallala aquifer. The gravel unit is in turn overlain by a red to yellow sand that exhibits vertical heterogeneity with alternating layers of loose and well-consolidated sand. This overlying unit constitutes the "shallow" water-bearing zone. Wells screened in the gravel unit have 40 to 50 feet of water column. Wells screened in the shallow water-bearing zone of the groundwater have screens that intersect the groundwater table and typically have 10 to 45 feet of saturation. Overall depth to groundwater varies roughly with local topography and ranges from 37 to 73 feet below the surface.

Regionally, the groundwater gradient was to the southeast in the area of the plant site. However, a water table high now exists south of the plant site, creating a hydraulic gradient that has southwest, west, northwest, north and northeast trends (See Figures 28, 29, 30 and 31). The elevations of the groundwater in the shallow and deep zones

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are similar, indicating that there is hydraulic continuity between the zones. Maps are included in this report that show the water table elevation contours and resulting directions of groundwater flow occurring at the time that the various water level measurements were made for this reporting period.

The groundwater in the area may extend into the aeolian portion of the upper Ogallala, but lies below the Blackwater Draw Formation. The Ogallala aquifer in the subject area is hydraulically unconfined.

4 Investigation Methods and Results

This section presents the methodologies and results of each type of data collection conducted during the groundwater investigation. The data collection types include observations and measurements made in the field as well as sampling protocol and laboratory analytical methods. The summarized results of observations and analyses for the specified media and parameters are included in Table 3 through Table 5; field parameters are included in Table 6.

4.1 Groundwater Investigation and Monitoring

The groundwater investigation was designed and conducted to accomplish the following goals:

- 1. Evaluate the structure and composition of each stratum to refine the geological framework;
- 2. Define the COCs:
- 3. Define the vertical and horizontal extent of groundwater impact;
- 4. Analyze and estimate the hydrologic characteristics of the shallow and deep portions of the water-bearing unit; and
- 5. Monitor the effects of the remediation efforts.

4.1.1 Well Design, Development, and Sampling

Injection, recovery and monitoring well design and construction, and the development and sampling of these wells, were all governed by the specific characteristics of the hydrogeological unit penetrated and the intended purpose of the well. The design, construction, development, and sampling details for each well type are discussed in the following sections and locations are presented in Figure 2. Drilling was conducted by Scarborough Drilling Company of Lamesa, Texas and John White Drilling Company of Clyde, Texas. Air/water rotary drilling rigs were utilized for the drilling of all monitor and injection wells.

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4.1.1.1 Monitor Well Design

The monitor wells were installed in order to delineate the horizontal and vertical extent of chromium and hydrocarbon impacts in the groundwater. As of the date of this report, there were 132 wells included in the monitoring program as part of the groundwater investigation. The list of wells currently monitored include: 108 wells designated as monitor wells (MW prefix); 17 wells designated as injection wells (IW prefix); three wells previously designated as recovery wells (RW prefix); and five wells drilled and owned by landowners (WW suffix). These monitor wells were installed on Site property as well as properties adjacent to the Site. In late October 2005, five monitoring wells and 11 injection wells were installed in the medial array area.

The design and construction of the monitoring wells varies due to the site-specific geology, depth to groundwater, and saturated formation thickness encountered during drilling. Currently, groundwater impacts at the Site are being evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow" Ogallala Aquifer zones. Previous reports referred to "shallow/middle", "middle" and "deep" zones within the Ogallala Aquifer. Monitor well nomenclature was based upon this differentiation of screened intervals. For simplicity, this report uses the term "shallow", referring to the previously identified "shallow", "shallow/middle" and "middle" zones.

An exception to this terminology is found in report Sections 4.1.7 and 5.2.1 discussing the evaluation of the effects of the IRZ injection program where there are sufficient monitor wells with discrete screened intervals to allow for an evaluation of greater stratigraphic detail. For consistency, the well names remain unchanged. Monitoring wells with screened intervals in the shallow portion of the aquifer have only a numeric suffix. Three monitoring wells with screened intervals only in the middle portion of the aquifer have an "M" suffix. Monitoring wells with screened intervals in the deep portion of the aquifer have an "A" suffix. Monitoring wells with screened intervals fully-penetrating from the shallow to the deep portion of the aquifer have an SA suffix. The wells designated "SA" are located on the eastern side of the Site in an area where the Ogallala Aquifer thins significantly. A true geologic distinction cannot be made between the shallow, middle, and deep portion of the Ogallala.

Four permanent recovery wells were constructed during early aquifer evaluation for the purpose of estimating the aquifer hydraulic characteristics. One recovery well, RW001, drilled by a previous investigator, was intended for preliminary aquifer testing, but due to completion questions has not been utilized by ARCADIS for its designed purpose and was plugged and abandoned in September 2005. RW002 and RW003 were completed at a total depth of approximately 65 feet below ground level (bgl) and screened to approximately 45 feet bgl. These two wells were used to evaluate the shallow water-bearing unit. RW004A was completed at 115 feet bgl and screened

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to 95 feet bgl. This well was used to evaluate the deep water-bearing unit. RW004A has since been converted to an injection well, and the other three wells were used as monitor wells.

All recovery wells are constructed with 6-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, PVC mill-slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. The well annulus is grouted to the surface with 5% bentonite-cement slurry. A three-foot by three-foot concrete slab six inches thick has been constructed and a 3-foot tall locking protective sleeve installed around each wellhead.

Of the 113 monitor wells on the Site, 50 wells are designated shallow zone monitor wells and 63 wells are designated deep zone monitor wells. Eight are designated as landowner wells. The well locations are presented on Figure 2, and a detailed well construction summary is presented in Table 1.

All of the monitor wells were drilled with an air/water rotary drilling rig and completed with 4-inch PVC casing and 0.020-inch PVC mill-slotted screen. The screens are gravel packed with 8/16 silica sand to a point approximately three to five feet above the top of the screen. Three to five feet of bentonite has been placed on top of the gravel pack, and the balance of the annular space between the casing and borehole wall has been grouted to the surface with five-percent bentonite/cement slurry, circulated to the surface. A three-foot by three-foot concrete slab six inches thick has been placed around the casing for both-flush mount wells and wells with risers and locking steel protective sleeves. The flush-mount wells have standard traffic-bearing manhole covers. Each well has been developed by bailing and then by pumping until the well cleared of suspended material and lost drilling fluid was recovered.

Drill cuttings were analyzed by an ARCADIS geologist on all wells drilled under ARCADIS supervision at the time the wells were drilled. All well locations and the top of the casing elevations have been surveyed by a State of New Mexico Registered Surveyor. Well logs showing subsurface lithologic descriptions and well completion data have been drafted. Well logs for the monitoring wells that were drilled and completed after the conclusion of the *Groundwater Investigation and Remediation Activities Report 2004* are located in Appendix B.

4.1.1.2 Injection Well Design

Two injection wells were constructed for the IRZ Remediation Phase 1 Study (IW001 and IW002). One recovery well (RW004A) is also being used for injection purposes. These three wells serve as injection points for the introduction of carbohydrate solution into the groundwater-bearing unit. RW004A is completed at 115 feet bgl and screened to 95 feet bgl in the deep zone. IW001 and IW002 are completed at a total depth of 90

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feet bgl and screened from 35-90 feet bgl in the shallow zone. IW001 and IW002 were constructed with 4-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, mill-slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. RW004A was constructed with 6-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, PVC mill-slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. Each well annulus is grouted to the surface with 5% bentonite-cement slurry. A three-foot by three-foot by six-inch concrete foundation has been constructed, and a 3-foot tall locking protective sleeve has been installed around each wellhead.

Fourteen injection wells were constructed for the IRZ Remediation Phase II Distal Study (IW003 through IW016). These 14 wells serve as injection points for the introduction of carbohydrate solution into the groundwater-bearing unit at the distal location. Wells IW003 through IW016 are fully-penetrating injection wells screened through the shallow, middle, and deep zones. Each was constructed with 4-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, mill-slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. Each well annulus is grouted to the surface with 5% bentonite-cement slurry. A three-foot by three-foot by six-inch concrete foundation has been constructed, and a 3-foot tall locking protective sleeve installed around each wellhead.

Eleven injection wells were constructed for the IRZ Remediation Medial Array Study (IW018 through IW028). These 11 wells serve as injection points for the introduction of carbohydrate solution into the groundwater-bearing unit at the medial array location. Wells IW018 through IW028 are fully penetrating injection wells screened through the shallow, middle, and deep zones. Each was constructed with 4-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, mill-slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. Each well annulus is grouted to the surface with 5% bentonite-cement slurry. A three-foot by three-foot by six-inch concrete foundation has been constructed, and a 3-foot tall locking protective sleeve installed around each wellhead. Well logs for the injection wells that were drilled and completed after the conclusion of the *Groundwater Investigation and Remediation Activities Report 2004* are located in Appendix B.

4.1.1.3 Well Development

During the well construction, drilling fluids were introduced into the well bore to maintain the integrity of the hole while drilling. Wells were developed upon installation. The well development was intended to remove any fluids introduced to the well and the aquifer during installation as well as remove suspended sand, silt or clay.

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Prior to January 2004, each cased and filter-packed well was bailed to remove drilling fluid, settled sand, silt or clay. Following the bailing, the wells were purged with a submersible pump for approximately three hours or until 1,000 gallons were removed. Additionally, purging continued until pH, temperature, and conductivity values of the groundwater had stabilized. The top of the filter pack was then re-measured and additional sand added to bring the level to the desired elevation, usually one-foot above the top of the screened interval. The annulus was then sealed with a bentonite plug and grouted to the surface with hydrated cement or a cement-bentonite mixture.

Beginning in January 2004, all new injection and monitoring wells, including all distal injection and their associated monitoring wells for the distal and medial array area, were more aggressively developed. This additional development included the addition of a polymer-based mud dispersant and mechanical surging and bailing of the cased and filter packed well. The mud dispersant was injected into the cased and sand-packed well after the well had been bailed. The mud dispersant was then allowed to percolate into the aquifer for at least 12 hours. The mud dispersant was intended to mobilize clay particles that may have contaminated and sealed the aquifer surrounding the well bore during the drilling process. The well was then alternately bailed and surged until as much as possible of the fine sand, silt, and clay particles had been removed. The filter-pack was then remeasured, the needed sand added, and the well was completed as described in the previous paragraph.

4.1.2 Groundwater Level Monitoring

Water level measurements are being routinely collected for the purpose of mapping the water table and determining the hydraulic gradient. These measurements are taken prior to purging or sampling of the monitor wells. The depth to water from the established measuring point for each well is measured using a battery-powered water level meter. Measurements for each well are taken from the same permanent, clearly marked, surveyed reference point (measuring point) marked on the top of the PVC casing. Depth to water is recorded to the nearest hundredth of a foot. The elevation of the water level with respect to mean sea level is calculated and reported to the nearest hundredth of a foot.

Each groundwater monitoring event includes a measurement of the water level in each monitor, recovery, and water well available at the time of the monitoring event. At the time of monitoring, there were 108 monitor wells, four recovery wells, seven water wells and 16 injection wells available for water level collection. In addition to the measurement of water levels, MW005 and MW006 were examined for the presence of PSH using an oil-water interface probe.

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The water level meter and the oil-water interface probe were decontaminated prior to their use in each well. Decontamination is conducted using a low phosphate, laboratory-grade detergent followed by a deionized water rinse. The measurement probe and the oil-water interface probe are inspected for proper operation prior to each groundwater monitoring event. This ensures that accurate measurements of the water level are made during each event. In addition, the total depth of the well and the casing stickup above ground surface are measured on each well.

4.1.3 Groundwater Sampling

This section describes the field methods and procedures that were used during the groundwater sampling events conducted during the course of this investigation. Sampling prior to this report period was conducted on a quarterly basis and utilized both multiple-well-volume and low-flow (micropurge) purging techniques. Comparisons of the two purging techniques resulted in adoption of the multiple-well-volume purging technique as being the most representative. Sampling during this report period was conducted on a semi-annual basis. The multiple-well-volume purging technique was used in sampling all wells with the exception of those monitoring wells located in close proximity to, and used to directly monitor, the IRZ injection wells. The following sampling methods and procedures cover purging, field parameter collection, and field documentation including field forms and field notes.

4.1.3.1 Low-Flow Purging of Wells

A low-volume, low-flow purging technique, approved by the EPA, had been used for most sampling events and on most wells prior to the sampling events detailed in this report. However, as sampling data was evaluated from succeeding sampling events, it became apparent that the low-flow purging was not producing representative samples of the chromium concentrations stratified within the aquifer. This was demonstrated by comparing low-flow purge with multiple-well-volume purge sampling results. In this comparison, it was demonstrated that the purging of multiple-well-volumes resulted in higher chromium results than the low-flow purge procedure in some wells. For this reason, the purging of multiple-well-volumes has been reinitiated as the preferred purging procedure and will be consistently used in the future on all wells with the exception of the carbohydrate solution wells and associated monitor wells. The low-flow purge procedure will continue to be used on the injection wells and associated monitor wells to prevent the displacement of the carbohydrate solution in the well.

During the sampling in which the low-flow purging is utilized, the following purging procedures are followed:

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- 1. Prior to sampling, each monitor well is purged at a low-flow rate. This is achieved by pumping groundwater in such a manner as to minimize drawdown and until monitored field parameters stabilize in the purged water;
- 2. A 2-inch nitrogen-driven bladder pump is used for the low-flow purging procedure;
- 3. To minimize cross-contamination, a new disposable bladder is installed on the pump during the decontamination process and prior to placing the pump in the next well; and
- 4. Each well has dedicated tubing.

4.1.3.2 Multiple-Well-Volume Purging

Wells that are purged of at least three calculated well volumes use an electric submersible pump prior to sampling. The pump discharge is monitored for pH, temperature and conductivity with pumping continuing until the measured parameters stabilize and at least three calculated well bore volumes are purged from the well.

4.1.3.3 Collecting Field Parameters

Stabilization of the groundwater chemistry during the purging process is established by monitoring field parameters. The equipment used for the field measurements is calibrated at least once during each day of the sampling event. Field parameters are collected with a QED Micropurge Basics TM MP20D multi-meter. Low-flow purging of each well to be sampled continues until the field measurements of pH, temperature, specific conductance, oxidation-reduction potential and dissolved oxygen of the purged water has stabilized within a specified range of the previous measurements. The specified ranges for the measured parameters are:

- 1. Dissolved oxygen (DO) and pH: plus or minus 0.2 units;
- 2. Specific conductance: plus or minus 0.02 units; and
- 3. Oxidation-reduction potential (ORP): plus or minus 20 units.

During purging, water levels are measured to monitor drawdown in the well. In addition, field tests for ferrous iron and sulfide are conducted using HACHTM test kits. A summary of the field parameters collected is presented in Table 6.

4.1.3.4 Documenting Field Activities

Field documentation includes preprinted field forms as well as field notes completed by the sampling personnel. Pre-printed well sampling logs are used to record the field parameters previously discussed in Section 4.1.3.3. In addition, color, odor,

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appearance, pumping rate, pump settings, purge times, sampling times and any other pertinent observations are recorded. All information related to a sampling event is recorded in bound field notebooks, with entries recorded in black indelible ink. Recorded in the field notes are the project, location, date, time, weather conditions, name and identity of sampling personnel, and all other pertinent information.

4.1.4 Groundwater Analytical Methods and Procedures

This section discusses the methods and procedures utilized for sample collection, sample containers, preservation of the samples, sampling order and sample labeling. Analytical methods including shipment of samples to the analytical laboratory and field analytical methods are also discussed.

4.1.4.1 Sample Collection

The methods and procedures associated with sample collection include sample container selection, preservation, filtration, and the order in which samples will be collected.

The volume of samples and types of sample containers used depend on the parameters to be analyzed. The EPA guidelines for sample containers, preservation, holding times, etc. (as presented in Table 8) are adhered to during sampling events conducted at this site. Some of the primary elements of the EPA guidelines adhered to in the sampling events conducted during the current investigation are:

- 1. All samples are kept at, or below, a temperature of 4° Celsius (°C) from the time of collection until delivery to the analytical laboratory;
- 2. Samples for analysis of metals, including chromium and hexavalent chromium, are filtered in the field. Filtration is accomplished using a disposable 0.45-micron filter. Nitric acid is added to the containerized filtered sample as a preservative for all the total metals that were analyzed;
- 3. After purging the well, the time elapsed before collecting the water sample is kept as short as possible to avoid variations in groundwater chemistry;
- 4. If contamination is known to be present in one or more of the monitor wells at the Site, sampling begins with the well known to be the least contaminated and ends with the well that is most impacted. Where no impact is known or suspected, sampling proceeds from the well with the highest water level elevation (upgradient) to the one with the lowest water level elevation (downgradient); and
- 5. The sample containers are filled in the following order based on volatilization sensitivity: VOCs and BTEX; semi-volatile organic compounds (SVOCs); metals; and other inorganic parameters.

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4.1.4.2 Sample Labeling

All sample containers are labeled with the well identification number, site identification, analyses to be performed, preservatives used, date and time of sample collection, and name of sampler. This information is written with indelible ink.

4.1.4.3 Sample Storing, Packing, and Transporting

After sample collection, all samples are kept cold (at 4°C) and transported to the laboratory by overnight courier under standard custody protocols. Shipment of samples to the laboratory is performed daily due to applicable holding times. The samples are placed in re-sealable bags and packed in a cooler containing ice in sufficient quantity to maintain the temperature at 4°C. A material such as vermiculite is used in the cooler to prevent or minimize the likelihood of container breakage. The cooler is secured using reinforced shipping tape.

4.1.4.4 Chain-of-Custody Documentation

Proper chain-of-custody (Chain) documentation accompanies the samples from the field to the analytical laboratory. The Chain is signed by each party handling the samples, from sampler to the laboratory, to document the possession of the samples at all times. Individuals relinquishing and receiving the samples are required to sign, date and note the time of transfer on the Chain form. The Chain documentation also contains data and information for each sample, including sample identification, well number, date and time of sample collection, preservatives used and the analyses to be performed. In addition, all sample coolers are sealed using a signed custody seal to prevent tampering or to provide direct evidence in the event of tampering.

4.1.4.5 Analytical Methods

The methods used for analysis of water samples collected for the current groundwater monitoring program are documented in Standard Methods for Examination of Water and Wastewater, 18th edition, 1992 or EPA SW-846. A complete list of analyses and analytical methods implemented during the past sampling events is presented in Table 8.

4.1.5 Groundwater Sampling Results

This section discusses the groundwater sampling results obtained from the following sampling events:

1. December 2004/January 2005; and

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2. May/June 2005.

The results of the laboratory analysis for the COCs were compared to the Primary and Secondary Drinking Water Standards established by the EPA for public drinking water supplies. The EPA primary drinking water standard for a particular constituent is also known as the MCL. The EPA secondary standard for a constituent is known as an SL. Laboratory analytical results are presented on the CD in Appendix C.

4.1.5.1 Shallow Wells, December 2004/January 2005 Groundwater Sampling Event Analytical Results

Fifty-two shallow wells were sampled during the December 2004/January 2005 groundwater sampling event. The sampled wells include: forty-four monitor wells; four middle zone monitor wells; two injection wells; and two recovery wells. The forty-four monitor wells sampled include MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061 and MW068 through MW070. The four middle zone monitor wells sampled include MW008M, MW011M, MW012M and MW088M. The two injection wells sampled are IW001 and IW002. The two recovery wells sampled are RW002 and RW003.

The groundwater samples obtained from the wells were analyzed for chromium, hexavalent chromium, BTEX, TPH, and chlorides. The TPH analyses have been broken into Gasoline Range Organics (GRO) with a carbon atom range from C_6 through C_{12} and Diesel Range Organics (DRO) with a carbon atom range from C_{10} through C_{32} . TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for the organic compounds (BTEX and TPH) are presented in Table 3, metals are presented in Table 4, and inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

Groundwater samples from the following sixteen shallow wells were analyzed for BTEX: MW001, MW002, MW003, MW009, MW021, MW024, MW033 through MW038, MW043, MW044, MW046 and MW058. BTEX was detected in MW001, MW033, MW037 and MW038. Benzene concentrations exceeded the MCL of 0.005 mg/L in MW033, MW037 and MW038. Toluene, ethylbenzene and xylenes concentrations were below their respective MCLs of 1.0 mg/L, 0.7 mg/L and 10 mg/L in all samples, respectively. The December 2004/January 2005 isoconcentration map for BTEX concentrations in the shallow wells is presented in Figure 3. The December 2004/January 2005 isoconcentration map for benzene concentrations in the shallow wells is presented in Figure 5. In addition, PSH was measured MW006 (0.56 feet) approximately 47 feet bgl.

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Groundwater samples from the following sixteen shallow wells were analyzed for TPH: MW001, MW002, MW003, MW009, MW021, MW024, MW033 through MW038, MW043, MW044, MW046 and MW058. TPH was detected in MW001, MW033, MW036, MW037, MW038, MW043, MW044 and MW046. TPH was analyzed for GRO and DRO hydrocarbons and the results added for the TPH value. The December 2004/January 2005 isoconcentration map for TPH concentrations in the shallow wells is presented in Figure 7.

Groundwater samples from the following fifty-two shallow wells were analyzed for dissolved chromium and hexavalent chromium: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002 and RW003. The MCL for chromium is 0.1 mg/L. Chromium analytical results for MW003, MW004, MW008, MW009, MW011, MW012, MW013, MW014, MW023, MW034, MW038, MW044, MW045, MW047, MW058, MW061, MW008M, MW011M, MW088M, IW001 and RW002 were reported above the MCL. The December 2004/January 2005 isoconcentration map for chromium concentrations in the shallow wells is presented in Figure 9. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: MW004, MW008, MW009, MW011 through MW014, MW023, MW034, MW044, MW047, MW058, MW059 and MW061. The December 2004/January 2005 isoconcentration map for hexavalent chromium concentrations in the shallow wells is presented in Figure 11.

Groundwater samples from the following forty-seven shallow wells were also analyzed for chloride: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW028, MW030, MW032 through MW038, MW044, MW045, MW047, MW058 through MW061, MW068, MW069, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002 and RW003. Chloride concentrations exceeded 250 mg/L (the SL for chloride) in the following wells: IW001, IW002, MW002 through MW04, MW007 through MW015, MW008M, MW011M, MW012M, MW020, MW023, MW024, MW026, MW027, MW028, MW032, MW033, MW034, MW036, MW037, MW044, MW045, MW047, MW060, MW061, MW068, MW069, RW002 and RW003. The December 2004/January 2005 isoconcentration map for chloride concentrations in the shallow wells is presented in Figure 13.

4.1.5.2 Deep Wells, December 2004/January 2005 Groundwater Sampling Event Analytical Results

Seventy-seven deep wells were sampled during the December 2004/January 2005 sampling event. The sampled wells included fifty-eight monitor wells, thirteen

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injection wells, five water wells, and one recovery well. The fifty-eight monitor wells that were sampled include MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW086SA, and MW087A. The thirteen injection wells include IW003 through IW010, IW011, and IW013 through IW016. IW012 was not sampled because it was dry. The five water wells sampled include EPWW1, GOPWW2, LordWW, RowlandWW, and WoodellWW. Finally, the recovery well that was sampled is RW004A.

The groundwater samples obtained from the seventy-seven deep wells were analyzed for one or more of the following constituents: chromium, hexavalent chromium, BTEX, and TPH. The TPH analyses have been broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a carbon atom range from C_{10} through C_{32} . TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 8.

Groundwater samples from the following nine deep wells were analyzed for BTEX: MW009A, MW039A, MW046A, MW049SA, MW051A, MW071SA, MW074SA, MW077SA, and MW078SA. BTEX was detected in MW077SA and MW078SA. Benzene concentrations were also reported in MW077SA and MW078SA at concentrations below the MCL. All other deep wells sampled were reported below laboratory quantitation limits. Toluene, ethylbenzene and xylenes concentrations were below their respective MCLs of 1.0 mg/L, 0.7 mg/L, and 10 mg/L in all samples. The December 2004/January 2005 isoconcentration map for BTEX concentrations in the deep wells is presented in Figure 4. The December 2004/January 2005 isoconcentration map for benzene concentrations in the deep wells is presented in Figure 6.

Groundwater samples from the following nine deep wells were analyzed for TPH: MW009A, MW039A, MW046A, MW049SA, MW051SA, MW071SA, MW0074SA, MW077SA, and MW078SA. TPH was detected in MW046A. TPH was analyzed for GRO and DRO hydrocarbons and the results combined and reported as the TPH value. The December 2004/January 2005 isoconcentration map for TPH concentrations in the deep wells is presented in Figure 8.

Groundwater samples from the following seventy-six deep wells were analyzed for dissolved chromium and hexavalent chromium: MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW086SA, MW087A, IW003 through

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IW010, IW013, IW016, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004A. The MCL for chromium is 0.1 mg/L. Chromium analytical results for the following deep wells were reported above the MCL: MW004A, MW007A through MW009A, MW011A, MW024A, MW039A, MW041A, MW046A, MW048SA, MW050SA through MW052SA, MW055SA, MW056SA, MW064SA, MW066SA, MW087A, IW003 through IW010, IW013, IW016, EPWW1, and LordWW. The December 2004/January 2005 isoconcentration map for chromium concentrations in the deep wells is presented in Figure 10. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: MW007A through MW009A, MW011A, MW039A, MW041A, MW048SA, MW050SA, MW051SA, MW054SA, MW055SA, MW064SA, MW066SA, MW087A, EPWW1, and LordWW. The December 2004/January 2005 isoconcentration map for hexavalent chromium concentrations in the deep wells is presented in Figure 12.

Groundwater samples from the following seventy-seven deep wells were analyzed for chloride: MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW086SA, MW087A, IW003 through IW009, IW010, IW011, IW013 through IW016, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004A. Chloride concentrations exceeded 250 mg/L in the following deep wells: MW002A, MW004A, MW007A through MW009A, MW011A, MW015A, MW016A, MW019A through MW022A, MW024A MW041A, MW042A, MW046A, MW048SA through MW057SA, MW064SA through MW067SA, MW071SA through MW086SA, MW087A, IW003 through IW009, IW010, IW011, IW013 through IW016, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004A. The December 2004/January 2005 isoconcentration map for chloride concentrations in the deep wells is presented in Figure 14.

4.1.5.3 Shallow Wells, May/June 2005 Groundwater Sampling Event Analytical Results

Fifty-three shallow wells were sampled during the May/June 2005 sampling event. The sampled wells include: forty-five monitor wells; four middle zone monitor wells; two injection wells; and two recovery wells. The forty-five monitor wells sampled include MW001 through MW005, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061 and MW068 through MW070. The four middle zone monitor wells sampled include MW008M, MW011M, MW012M, and MW088M. The two injection wells sampled are IW001 and IW002. The two recovery wells sampled are RW002 and RW003.

The groundwater samples obtained from the wells were analyzed for dissolved chromium, hexavalent chromium, BTEX, and TPH. The TPH analyses have been

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broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a carbon atom range from C_{10} through C_{32} . TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 8.

Groundwater samples from the following twenty shallow wells were analyzed for BTEX: MW001, MW002, MW004, MW005, MW009, MW021, MW023, MW024, MW033 through MW038, MW043 through MW047 and MW058. BTEX was detected in MW001, MW005, MW021, MW033, MW035 through MW038, MW043, MW045 and MW046. Benzene concentrations exceeded the maximum contaminant level (MCL, 0.005 mg/L) in MW001, MW005, MW033, MW037, MW038 and MW046. Toluene, ethylbenzene and xylenes concentrations were both below their respective MCLs of 1.0 mg/L, 0.7 mg/L and 10 mg/L in all samples. The May/June 2005 isoconcentration map for BTEX concentrations in the shallow wells is presented in Figure 15. The May/June 2005 isoconcentration map for benzene concentrations in the shallow wells is presented in Figure 17. In addition, PSH continued to be encountered and was measured in MW006 (see Table 7).

Groundwater samples from the following twenty shallow wells were analyzed for TPH: MW001, MW002, MW004, MW005, MW009, MW021, MW023, MW024, MW033 through MW038, MW043 through MW047, and MW058. TPH was detected in MW001, MW005, MW021, MW033, MW035 through MW038, and MW043 through MW046. TPH was analyzed for GRO and DRO hydrocarbons and the results added for the TPH value. The May/June 2005 isoconcentration map for TPH concentrations in the shallow wells is presented in Figure 19.

Groundwater samples from the following fifty-three shallow wells were analyzed for dissolved chromium: MW001 through MW005, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002, and RW003. The MCL for chromium is 0.1 mg/L. Chromium concentrations exceeded the MCL in the following wells: MW003, MW004, MW009, MW011 through MW014, MW023, MW024, MW034, MW038, MW044, MW047, MW058, MW061, MW011M, and MW088M. The May/June 2005 isoconcentration map for chromium concentrations in the shallow wells is presented in Figure 21.

Groundwater samples from the following eleven shallow wells were analyzed for hexavalent chromium: MW008, MW011, MW012, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002, and RW003. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: MW011 and MW012. The

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May/June 2005 isoconcentration map for hexavalent chromium concentration in the shallow wells is presented in Figure 23.

Groundwater samples from the following fifty-three shallow wells were analyzed for chloride: MW001 through MW005, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002, and RW003. Chloride concentrations exceeded 250 mg/L in the following wells: MW002 through MW005, MW007 through MW015, MW018, MW020, MW021, MW023 through MW028, MW030, MW032 through MW034, MW036 through MW038, MW044, MW045, MW047, MW058 through MW061, MW068, MW069, MW008M, MW011M, MW012M, MW088M, IW001, IW002, RW002, and RW003. The May/June 2005 isoconcentration map for chloride concentrations in the shallow wells is presented in Figure 25.

4.1.5.4 Deep Wells, May/June 2005 Groundwater Sampling Event Analytical Results

Seventy-nine deep wells were sampled during the May/June 2005 sampling event. The sampled wells included fifty-eight monitor wells, fifteen injection wells, five water wells, and one recovery well. The fifty-eight monitor wells that were sampled include: MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, and MW071SA through MW086SA, and MW087A. The fifteen injection wells include IW003 through IW016 and IW028. The five water wells sampled include EPWW1, GOPWW2, LordWW, RowlandWW, and WoodellWW. Finally, the recovery well that was sampled is RW004A.

The groundwater samples obtained from the seventy-nine deep wells were analyzed for chromium, hexavalent chromium, BTEX, and TPH. The TPH analyses have been broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a carbon atom range from C_{10} through C_{32} . TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 8.

Groundwater samples from the following ten deep wells were analyzed for BTEX: MW018A, MW024A, MW046A, MW048A, MW049SA, MW057SA, MW074SA, MW076SA, MW077SA, and EPWW1. BTEX concentrations were reported below laboratory quantitation limits in all of the deep wells sampled. Toluene, ethylbenzene and xylenes concentrations were below their respective MCLs of 1.0 mg/L, 0.7 mg/L and 10 mg/L in all samples. The May/June 2005 isoconcentration map for BTEX

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concentrations in the deep wells is presented in Figure 16. The May/June 2005 isoconcentration map for benzene concentrations in the deep wells is presented in Figure 18.

Groundwater samples from the following ten deep wells were analyzed for TPH: MW018A, MW024A, MW046A, MW048A, MW049SA, MW057SA, MW074SA, MW076SA, MW077SA, and EPWW1. TPH was detected in MW046A. TPH was analyzed for GRO and DRO and the results added to obtain the TPH value. The May/June 2005 isoconcentration for TPH concentrations in the deep wells is presented in Figure 20.

Groundwater samples from the following seventy-nine deep wells were analyzed for dissolved chromium: MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW086SA, MW087A, IW003 through IW016, IW028, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004. Chromium analytical results for the following deep wells were reported above the 0.1 mg/L MCL: MW004A, MW007A, MW009A, MW011A, MW024A, MW039A, MW041A, MW046A, MW048SA, MW050SA through MW052SA, MW054SA through MW056SA, MW064SA, MW066SA, MW083SA, MW085SA, MW087A, IW003, IW005, IW006, IW010, IW013, IW015, IW028, EPWW1, and LordWW. The May/June 2005 isoconcentration map for chromium concentrations in the deep wells is presented in Figure 22.

Groundwater samples from the following thirty-two deep wells were analyzed for hexavalent chromium: MW008A, MW011A, MW012A, MW065SA, MW066SA, MW071SA, MW072SA, MW079SA through MW086SA, MW087A, IW003 through IW016, IW028, and RW004A. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: MW011A, MW066A, MW084SA, MW087A, and IW028. The May/June 2005 isoconcentration map for hexavalent chromium concentrations in the deep wells is presented in Figure 24.

Groundwater samples from the following seventy-nine deep wells were analyzed for chloride: MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW086SA, MW087A, IW003 through IW016, IW028, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004. Chloride concentrations exceeded 250 mg/L in the following deep wells: MW002A, MW004A, MW007A through MW009A, MW011A, MW015A, MW016A, MW019A through MW024A, MW041A, MW042A, MW046A, MW048SA through MW052SA, MW054SA

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through MW 056SA, MW064SA through MW066SA, MW071SA through MW077SA, MW079SA through MW086SA, MW087A, IW003 through IW007, IW009 through IW016, IW028, EPWW1, GOPWW2, RowlandWW, WoodellWW, and RW004A. The May/June 2005 isoconcentration map for chloride concentrations in the deep wells is presented in Figure 26.

4.1.6 Phase-Separated Hydrocarbons

This section discusses the recovery methodologies as well as the volume of PSH recovered from MW005 and MW006. These wells are located adjacent to the excavated and backfilled north sump.

4.1.6.1 PSH Measurement, Recovery and Disposal Methods

The PSH in the monitor wells was identified and measured using an oil-water interface probe. The measurements are presented in Table 7. The PSH was recovered using a 1 5/8" polyethylene disposable bailer. The bailer was lowered into the well to the top of the PSH and allowed to sink slowly. The recovered PSH and water were placed in a five-gallon bucket and volumes measured. The PSH and water were then transferred and accumulated in a 55-gallon steel drum. After accumulating a sufficient quantity, the drummed PSH and water were transported to the Rice Operating sump located within the Dynegy plant where it was deposited with other oil being accumulated for reuse. The results of the PSH thicknesses and recovered volumes are located in Table 7.

4.1.6.2 PSH Recovery Volumes

A PSH thickness has not been recorded in MW005 between September 2004 and June 2005.

The greatest PSH thickness of 2.21 feet has been measured in MW006 between September 2004 and June 2005. A total of 8.47 gallons of PSH were recovered from MW006 between September 2004 and June 2005, and disposed of in a NMOCD-permitted deep injection well.

4.1.7 Groundwater Chromium Remediation

Remediation of chromate-impacted groundwater was underway in two areas as of October 2005. One, believed to be located in the global Study Area, is approximately 200 to 800 feet south to southwest of the plant. Remediation of the Study Area has been operational for approximately 18 months. The second, located at the distal end of

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the chromate plume, is approximately 2,800 feet east-northeast of the plant. The distal array has been operational for approximately nine months.

There are three injection systems located in what is believed to be the Study Area. Each of the three systems consists of one injection well with an associated array of monitor wells located at various distances from the injection well, along slightly different directions, and screened through various intervals. The locations of each of the injection wells and associated monitor wells are shown on Figure 2. The Study Area systems are evaluating the IRZ effects in the shallow, middle, and deep zones identified in the Study Area.

At the distal end of the plume, there is an array of fourteen injection wells installed across the plume toe. Monitor well arrays have been installed at each end of the injection array with various distances and directions being evaluated. At the distal end of the plume, the saturated interval is treated as one unit, rather than the three units present at the Study Area. The configuration of the distal injection array and associated monitor wells is shown in Figure 2. A cross-section illustrating the site geology, well construction, and water table elevation is shown in Figure 28.

At the distal treatment zone, the hydrogeology is dominated by an erosional high in the underlying Triassic red bed unit. For this reason, the total screened intervals of the wells in the injection array vary significantly. The ends of the array have a greater saturated interval and the center significantly less. During some sampling events, a few of the injection wells installed in the center of the distal array are actually above the water table and are dry.

4.1.7.1 Summary of IRZ Performance

The treatment of chromate via IRZ technology stimulates multiple processes that are capable of reducing the soluble chromate oxyanion into insoluble cationic Cr III hydroxides. Direct action by bacteria, reaction with reducing carbon species (as demonstrated in the area impacted with petroleum hydrocarbons), reactions with ferrous iron produced from the geologic matrix by stimulated iron reducing bacteria, and reaction with sulfide produced from the reduction of sulfate by stimulated sulfate reducing bacteria all contribute to the remediation process.

The initial response of the IRZ program is typically indicated by a lowering of the ORP followed by the detection of low concentrations of iron. Deeper IRZ response is represented by a further decline of the ORP to negative values, the appearance of significant concentrations of total iron, the disappearance of sulfate, and the appearance of elevated dissolved concentrations of carbon dioxide and methane. Direct influence of the injection solutions is represented by increases in total organic carbon (TOC).

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Where hexavalent and dissolved chromium have been reduced to low or non-detect concentrations, it has sometimes taken place during the transition from the initial to the deep chemical response. This indicates that the conditions required for chromate removal do not have to be associated with extremely high concentrations of TOC or deeply anaerobic redox conditions.

In addition to the biogeochemical processes outlined above, the hydrogeology also plays an important role in the application of IRZ technology. Advective flow during an injection event followed by native groundwater advective flow, dispersion and diffusion all contribute to distribute the IRZ reactive processes downgradient from an injection point. The Study Area is a zone of relatively low native groundwater velocity and the distal array is an area of relatively high native groundwater velocities.

During the month of September, a continuous low flow injection system was installed and operated for a short period of time to evaluate the hydrologic effectiveness of continuous injection as well as implement an injection program more cost-effective than that based on a manual batch injection regime. Native groundwater velocities at the distal array were and are sufficient to allow for the periodic injection to be effective.

Because the batch injection program in the Study Area had been on-going for some time, and the injection and monitor wells located in the Study Area had been redeveloped the previous year, and most importantly, the short time of duration since initial start up of the low-flow continuous injection system, there was not enough data to provide a clear evaluation of the hydrodynamic nor biogeochemical impact of the continuous low-flow injection program.

Following is a summary of critical conditions at the Study Area and the distal array.

The Study Area

During the operation of the 2005 largely batch injection program, it has become increasingly obvious that the dominant transport pathway is along a preferential horizontal horizon defined by the M Zone wells. These wells are screened between 75 to 90 feet bgl. Irrespective of the configuration of the injection well local to the individual study areas, following are typical conditions in the M Zone monitor wells:

- 1. ORP is deeply negative from -200 to -300 mV;
- 2. TOC concentrations are elevated, from 300 to 2000 mg/L; and
- 3. Dissolved carbon dioxide and/or methane concentrations are elevated.

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In general, the wells associated with IW002 are not responding as strongly as the other two pilot areas. In all cases, the hexavalent chromium has been reduced from low single digit mg/L values to values below the analytical detection limit.

Monitor wells MW008A, RW003, and the newly installed MW088M behave in this fashion as well.

The following monitor wells have also had the concentration of hexavalent chromium decline to values below the analytical detection limit: MW008, MW087A, RW002 and MW012A. Their biogeochemical characteristics are as follows:

- 1. ORP in the range of -143 to -300 mv;
- 2. TOC in the range of 10 to 50 mg/L; and
- 3. An increase in concentration of dissolved gases (carbon dioxide to a greater degree than methane).

Monitor wells MW011, MW011A, and MW012 have not developed IRZ conditions sufficient to show significant treatment of hexavalent chromium. These wells are predominantly in the shallow zone, and wells for which the design and implementation of the low-flow continuous feed injection system were significantly focused. The biogeochemical properties of these wells are as follows:

- 1. ORP in the range of -140 mV to +117 mV;
- 2. TOC in the range of 30 to 80 mg/L;
- 3. Lower to no dissolved carbon dioxide or methane concentrations;
- 4. No generation of total iron; and
- 5. Little to no removal of hexavalent chromium.

It is obvious that all of the Study Area monitor wells and injection wells are installed in a moderately complex heterogeneous hydraulic system. There are trends with a preferential flow zone between 75 to 90 feet bgl and poor flow through the shallowest portions of the treatment zone, but there are some exceptions as well. Once again, the design and implementation of the low-flow continuous injection program was intended to overcome these variations.

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The Distal Treatment Array

The hydrogeologic conditions at the distal array are much different than those at the Study Area. The saturated interval is generally less, gradients greater, groundwater velocities higher, and the impact of low-flow heterogeneous conditions less (at least to date). The monitor wells directly adjacent to the injection wells were incorporated into the IRZ treatment zone within months of the start up of the injection program (with the exception of wells that are upgradient of the injection array). In the case of the distal array, of greatest interest are the downgradient indications of influence of the injection program. The downgradient effects by the end of the reporting period are best seen in wells that are located downgradient of the central portion of the injection array. Examples include:

- MW066SA Located 240 downgradient of the injection array
 - 1. ORP is -121 mV;
 - 2. TOC is 32 mg/L;
 - 3. Iron is 1.8 mg/L; and
 - 4. Hexavalent chromium has been reduced from 0.32 to 0.04 mg/L.
- MW071SA Located 700 feet downgradient of the injection array
 - 1. ORP has been recorded at -285 mV;
 - 2. TOC is 45 mg/L;
 - 3. Sulfate has been reduced to 63 mg/L; and
 - 4. Hexavalent chromium has been reduced from 0.12 to <0.005 mg/L.
- MW072SA Located 730 feet downgradient of the injection array
 - 1. ORP has been reduced to -131 mV; and
 - 2. TOC is 36 mg/L.

In this case, in addition to more rapid groundwater velocities, there are likely preferential pathways being exploited by the injected reagents as well.

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In summary, the removal of hexavalent and total dissolved chromium has been demonstrated in most of the Study Area monitor wells and in monitor wells out to 700 feet at the distal array. At the Study Area, the data indicates that hydraulic access to the shallow portion of the saturated zone is limited. The short lived continuous low-flow injection system was designed to aid in addressing that issue. At the distal array, injection modifications of the injection program to increase intervals between injections, decreased volume of injections and decreased reagent concentrations were in progress at the end of the report period. In addition, treatment efficacy over acceptable downgradient intervals had been established.

4.2 Waste Disposal

Wastewater generated from the development, sampling, and testing of monitor, recovery, injection, and water wells has been characterized and disposed of in two ways: 1) wastewater has been drummed and stored on location and periodically removed by oil-field vacuum truck for disposal into a New Mexico Oil Conservation Division (NMOCD) permitted deep injection well; and 2) wastewater has also been disposed in the plant wastewater sump along with plant wastewater.

The PSH and wastewater generated during PSH recovery has been deposited in the plant sump. The PSH and water are separated within the sump. The PSH is accumulated with oil from the plant for reuse, and the wastewater is disposed of in a NMOCD-permitted deep injection well.

5 Conclusions

Beginning in 1995, several environmental investigations have been conducted at the Chevron Eunice #2 (North) Gas Plant, Eunice, New Mexico. These investigations have produced data confirming hydrocarbon, chromium, and chloride ion invasion of the Tertiary Ogallala. Remediation activities have begun addressing the PSH on the groundwater, and chromium in the groundwater. The chloride ion investigation also continues in the subject area. However, it appears that the sources of much of the chloride impacts are off-site and unrelated to plant activities.

In order to determine the extent of the contamination and the effectiveness of remedial activities, groundwater samples from numerous wells have been analyzed for the following COCs: BTEX, TPH, chromium, hexavalent chromium, and chloride. In addition to the COCs, selected groundwater samples were analyzed for additional metals (see Table 4), inorganics or major dissolved minerals (see Table 5), total organic carbon (see Table 5), and permanent gases (see Table 5). The following field parameters were also measured during sampling: temperature, pH, specific

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conductance, dissolved oxygen, oxidation-reduction potential, iron, and sulfide (see Table 6).

The COCs for the investigation of the hydrocarbon impacts have been in the form of PSH as light nonaqueous phase liquids and dissolved hydrocarbons in groundwater. The COCs for the investigation of chromium impacts have been in the form of total chromium, dissolved total chromium, and dissolved hexavalent chromium. The COC for the investigation of saltwater impacts have been in the form of chloride ion. The results of the most recent sampling events spanning December 2004 to June 2005 are described in the following sections.

5.1 Groundwater Hydrocarbons

The dissolved and PSH hydrocarbon plumes in the Ogallala Aquifer groundwater in the area of the plant site have been fully defined. Groundwater from selected wells has been sampled and analyzed for BTEX and TPH. The following six wells had BTEX concentrations above the laboratory's minimum quantitation limit: MW001, MW033, MW037, MW038, MW077SA, and MW078SA. The following thirteen wells had TPH concentrations above the laboratory's quantitation limits: MW001, MW005, MW021, MW033, MW035, MW036, MW037, MW038, MW043, MW044, MW045, MW046, and MW046A. No MCL or SL exists for BTEX or TPH. There are however, MCLs for the BTEX constituents' benzene, toluene, ethylbenzene, and xylenes. Each of these compounds will be reviewed in detail below.

Several shallow monitor wells located within the plant site have benzene levels exceeding the EPA MCL (0.005 mg/L) for drinking water (see Figures 5 and 17). The benzene-affected area within the plant site includes MW001, MW005, MW033, MW036, MW037, MW038, and MW046. The benzene concentrations in MW001 and MW046 met or exceeded the MCL with concentrations of 0.005 mg/L and 0.020 mg/L. respectively, during the May/June 2005 sampling, but were below the MCL during the December 2004/January 2005 sampling. MW005 exhibited a benzene concentration of 0.81 mg/l, which is above the MCL, during the May/June 2005 sampling. MW005 has not been historically sampled due to PSH measurement and recovery from the well. MW033, located approximately \(\frac{1}{2}\)-mile south of the plant site, contained benzene above the MCL. The benzene detected in MW033 does not appear to be related to the historic plant operations. The other three wells were above the MCL for benzene in both sampling events. Only two deep wells exhibited a benzene concentration exceeding the MCL. The benzene concentrations in MW077SA and MW078SA were 0.052 mg/L and 0.050 mg/L, respectively, during the December 2004/January 2005 sampling, but were below the MCL during the May/June 2005 sampling.

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Toluene concentrations exceeded the minimum laboratory quantitation limits in four of the wells sampled: MW001, MW033, MW035, and MW046. The MCL of 1.0 mg/L was exceeded in MW033. MW033 exceeded the MCL with 1.8 mg/L for the December 2004/January 2004 sample and with 1.3 mg/L for the May/June 2005 sample.

Ethylbenzene concentrations exceeded the minimum laboratory quantitation limits in twelve of the wells sampled: MW001, MW005, MW021, MW033, MW035, MW036, MW037, MW043, MW045, MW046, MW077SA, and MW078SA. The MCL of 0.7 mg/L was not exceeded in any of the wells sampled during either sampling event.

Xylenes concentrations exceeded the minimum laboratory quantitation limits in seven of the wells sampled: MW001, MW033, MW036, MW037, MW046, MW077SA, and MW078SA. The MCL of 10.0 mg/L was not exceeded in any of the wells sampled during either sampling event.

As a point of interest regarding site remediation, the hydrocarbons in the groundwater are assisting in the remediation of the chromium by providing carbohydrate solution to the groundwater, encouraging the proliferation of bacteria. This in turn produces a reducing environment within the aquifer, resulting in chemical precipitation of the chromium. In addition, the chromium may be reacting directly with the hydrocarbon in an abiotic reaction. In the area where the dissolved hydrocarbon exists, chromium concentrations were found to be below laboratory quantitation limits (Compare Figure 3 with Figures 9 and 11 and Figure 15 with Figures 21 and 23).

5.2 Groundwater Chromium

The chromium plume has been fully defined and delineated in the subject area. The Ogallala Aquifer underlying the Site has poor but definite vertical hydraulic conductivity, resulting in stratified concentrations of chromium within the aquifer. The chromium impact has been evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow" Ogallala Aquifer zones. As noted in the isoconcentration maps attached to this report (see Figures 9 through 12 and 21 through 24), the chromium impact in the shallow and shallow/middle portion of the Ogallala covers an area in places different from the chromium plume in the deep portion of the aquifer in the area of the plant site. This results in the shallow chromium plume overlying portions of the deep zone containing chromium below the MCL. The lack of movement of chromium to the lower zone of the aquifer indicates that the chromium has not fully penetrated the vertical extent of the aquifer in all areas.

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The highest concentrations of chromium in the deep zone of the aquifer occur under the southwestern part, southern part and in an area immediately east of the site, and appear to move with the hydraulic gradient eastward following what appears to be the naturally occurring hydraulic gradient (Figures 10 and 22). The deep zone merges with the shallow zone of the aquifer east of the plant site. The aquifer, from the point of merger eastward, is considered, geologically, to be part of the deep zone. All monitor wells drilled east of the merger point fully penetrate, and are screened throughout, the saturated portion of the aquifer. In the shallow zone of the aquifer, the highest chromium concentrations occur southwest and south of the plant site and immediately to the east of the plant site (Figures 9 and 21).

5.2.1 Chromium Remediation

The program for in-situ chromate remediation has been designed to evaluate a potentially complex multi-layer hydrogeologic system and to exploit the Site hydrodynamics and biogeochemistry in order to optimize the design and implementation of a full-scale in-situ system in the most cost-effective and time-efficient manner possible.

Remediation of the chromate impacted groundwater is underway in two areas. The first, located in the Study Area, is approximately 200 and 800 feet south to southwest of the plant. Remediation of the Study Area has been operational for approximately 18 months. The second, located at the distal end of the chromate plume, is approximately 2,800 feet to the east-northeast of the plant. The distal array has been in operation for approximately nine months.

The Study Area wells were originally located to prove the IRZ remediation technology, and were placed in an area of higher chromate concentrations and complex geology. A continuous low-flow injection system was designed, installed, and operated for a short period at the end of this report period to enhance performance in the Study Area. The distal injection wells are distributed in an approximate line from north to south and perpendicular to the direction of groundwater flow. The distal wells have been situated as to allow the injected carbohydrate solution to intercept the eastern-most end of the chromate plume, arresting its movement to the east. This IRZ became firmly established during the reporting period, and operations were in the process of being modified to more accurately reflect maintenance conditions rather than start-up conditions for the IRZ.

5.3 Groundwater Chloride

Chloride ion impacts to the Ogallala Aquifer at the Site have also been identified, much of which appears to have originated off-site and is unrelated to historic plant operations

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(see Figures 13, 14, 25 and 26). The highest concentrations appear at sites southwest and south of the site (currently upgradient) and east of the plant site (downgradient). The sources of the high chloride concentrations have not yet been identified with any certainty.

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Chevron Eunice #2 (North) Plant

Table 1 Summary of Well Details ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Casing/Screen	Surveyed Measuring	Surveyed Ground	Screen	Тор	Bottom	Top	Bottom	Base of	Base of	Completed	Completed
Diameter	Point (MP)	Elevation *	Interval	of Screen	of Screen	of Screen	of Screen	Ogallala	Ogailala	Well Depth	Well TD
	Elevation *		(feet BGL)	(feet BGL)	(feet BGL)	Elevation * Elevation *	Elevation *		(feet BGL) Elevation *	(feet BGL)	Elevation *
4	3428.57	3428.79	48-68	48	89	3380.79	3360.79			68.31	3360.48
4	3432.17	3432.29	48-68	48	89	3384.29	3364.29			68.88	3363.41
4	3432.30	3432.30	103-123	103	123	3329.30	3309.30	123	3309.30	124.39	3307.91
4	3428.27	. 3426,10	48-68	48	89	3378.10	3358.10			68.17	3357.93
4	3423.38	3423.59	46.5-66.5	.46.5	66.5	3377.09	3357.09			95.99	3357.03
4	3423.57	3423.59	94.2-104.2	94.2	104.2	3329.39	3319.39	104	3319.59	103.89	3319.70
4.	3424.77	3425.49	48-68	48	68	3377.49	3357.49			68.00	3357.49
4	3425.26	3425.09	48-68	48	68	3377.09	3357.09			68.00	3357.09
4	3428.39	3426.28	46.29-66.29	46.29	66.29	3379.99	3359.99			65.85	3360.43
4	3428.13	3426.28	94.31-104.31	94.31	104.31	3331.97	3321.97	110	3316.28	104.31	3321.97
4	3430.13	3427.90	46,62-66,62	46.62	66.62	3381.28	3361.28			66.30	3361.60
4	3430.01	3427.90	105.5-113.4	105.5	113.4	3322.40	3314.50	113	3314.90	112.78	3315.12
4	3430.27	3427.95	75-85	75	85	3352.95	3342.95			85.74	3342.21
4	3427.63	3425.09	46.66-66.66	46.66	99.99	3378.43	3358.43			66.32	3358.77
4	3427.48	3425.09	93-100.6	93	100.6	3332.09	3324.49	100	3325.09	100,19	3324.90
4	3419.42	3419.77	44.75-65.1	44.75	65.1	3375.02	3354.67			65.24	3354,53
4	3431.49	3429.07	46.5-66.5	46.5	66.5	3382.57	3362.57			99.99	3362.41
4	3431.77	3429.28	107.5-115	107.5	115	3321.78	3314.28	116	3313.28	115.27	3314.01
4	3431.21	3429.38	06-08	80	06	3349.38	3339.38			90.87	3338.51
4	3429.51	3427.69	46.5-66.5	46.5	66.5	3381.19	3361.19			66.22	3361.47
4	3429.92	3427.42	106.1-113.6	106.1	113.6	3321.32	3313.82	116	3311.42	113.90	3313.52
4	3430.06	3427.77	80-90	80	06	3347.77	3337.77			89.06	3338.71
4	3423.11	3424,40	40-60.2	40	60.2	3384.40	3364.20			60.71	3363.69
4	3424.25	3424.39	96.3-106.44	96.3	106.44	3328.09	3317.95	110	3314.39	105.61	3318.78
4	3424.08	3424.31	41.19-61.19	41.19	61.19	3383.12	3363.12			61.19	3363.12
4	3423.90	3424,20	95.15-105.15	95.15	105.15	3329.05	3319.05	109	3315.20	105.42	3318.78
4	3420.40	3420.55	35-55	35	55	3385.55	3365.55			54.46	3366.09
4	33000	370676	00.00.00.00			37 0000		:		*****	71.0174

Table I Summary of Well Details ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Well Id	Casing/Screen	Surveyed Measuring	Surveyed Ground	Screen	Top	Bottom	Тор	Bottom	Base of	Base of	Completed	Completed
	Diameter	Point (MP)	Elevation *	Interval	of Screen	of Screen	of Screen	of Screen	Ogailala	Ogaflala	Well Depth	Well TD
		Elevation *		(feet BGL)	(feet BGL)	(feet BGL)	Elevation *	Elevation *	(feet BGL)	Elevation *	(feet BGL)	Elevation *
MW016A	4	3419.92	3419.90	81,51-91,60	81.51	91.6	3338.39	3328.30	91	3328.90	91.85	3328.05
MW017A	4	3424.38	3424.48	93.5-103.6	93.5	103.6	3330.98	3320.88	106	3318.48	103.98	3320.50
MW018	4	3417.15	3417.39	35-55	35	55	3382.39	3362.39			54.30	3363.09
MW018A	4	3416.86	3417.04	71.38-81.55	71.38	81.55	3345.66	3335.49	81	3336.04	81.76	3335.28
MW019A	4	3414.74	3414.95	62.2-72.4	62.2	72.4	3352.75	3342,55	72	3342.95	72.52	3342.43
MW020	4	3420.85	3418.50	35-55	35	55	3383.50	3363.50			55.69	3362.81
MW020A	4	3421.14	3418.50	71-81	71	81	3347.50	3337.50	80	3338.50	77.87	3340.63
MW021	4	3422.72	3420.41	40-60	40	99	3380.41	3360.41			60.21	3360.20
MW021A	4	3422.94	3420.41	75.49-85.49	75.49	85.49	3344.92	3334.92	75	3345.41	85.49	3334.92
MW022A	4	3431.13	3428.50	90.4-100.4	90.4	100.4	3338,10	3328.10	105	3323.50	100.40	3328.10
MW023	4	3436.44	3433.99	46.64-66.04	44.64	66.04	3389.35	3367.95			10.79	3366,98
MW023A	4	3436.26	3434.31	110-120	110	120	3324.31	3314.31	118	3316.31	121.55	3312.76
MW024	4	3431.32	3429.07	36-86	36	86	3393.07	3343.07			87.26	3341.81
MW024A	4	3430.77	3428.98	89.46-99.46	89.46	99.46	3339.52	3329.52	106	3322.98	99.46	3329.52
MW025	4	3432.64	3432.84	46,45-66,45	46.45	66.45	3386.39	3366.39			66.45	3366.39
MW026	4	3432.04	3432.52	43,33-63,33	43.33	63.33	3389.19	3369.19			63.33	3369.19
MW027	4	3443.33	3443.72	51.39-70.43	. 51.39	70.43	3392.33	3373.29			71.97	3371.75
MW028	4	3451.63	3450.02	63.56-83.56	63.29	82.33	3386.73	3367.69			83.56	3366.46
MW029	4	3446.89	3444.76	59.89-78.54	\$9.89	78.54	3384.87	3366.22			79.31	3365.45
MW030	4	3439.84	3437.66	55-75	55	75	3382.66	3362.66			75.11	3362.55
MW031	4	3440,68	3438.47	54-74	54	74	3384.47	3364.47			74.81	3363.66
MW032	4	3442.22	3442.52	49.73-69.73	49.73	69.73	3392.79	3372.79			69.73	3372.79
MW033	4	3428,86	3429.06	33.7-63.7	33.7	63.7	3395.36	3365,36			63.70	3365.36
MW034	4	3418.76	3419.00	43.58-63.58	43.58	63.58	3375.42	3355.42	ļ		63.58	3355.42
MW035	4	3427.39	3424.98	43.13-63.13	43.13	63.13	3381.85	3361.85			63.13	3361.85
MW036	4	3425.49	3425.80	42-62	42	62	3383.80	3363.80			65.99	3362.81
MW037	4	3423.71	3424.07	42-62	42	62	3382.07	3362.07			65.09	3361.98
MW038	4	3425.23	3425.58	42-62	42	62	3383.58	3363.58			62.32	3363.26
MW039A	4	3435.71	3433.36	107-117	107	117	3326.36	3316.36	117	3316.36	117.23	3316.13
MW040A	4	3422.92	3423.25	100-110	100	110	3323.25	3313.25	109	3314.25	110.58	3312.67

Table 1 Summary of Well Details ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Well Id	Casing/Screen	Surveyed Measuring	Surveyed Ground	Screen	Тор	Bottom	Top	Bottom	Base of	Base of	Completed	Completed
	Diameter	Point (MP)	Elevation *	Interval	of Screen	of Screen	of Screen	of Screen	Ogallala	Ogailala	Well Depth	Well TD
		Elevation *		(feet BGL)	(feet BGL)	(feet BGL)	Elevation * Elevation *	Elevation *	(feet BGL)	Elevation *	(feet BGL)	Elevation *
MW041A	4	3418.42	3418.12	78-88	78	88	3340.12	3330.12	87	3331.12	88.25	3329.87
MW042A	4	3424.75	3425.07	89.86-98.86	89.86	98.66	3335.21	3325.21	100	3325.07	98.66	3325.21
MW043	4	3423.57	3422.55	42-62	42	62	3380.55	3360.55			63.02	3359.53
MW044	4	3420.41	3420.63	41.9-61.9	41.9	61.9	3378.73	3358.73			61.90	3358.73
MW045	4	3425.53	3425.33	46-66	46	99	3379.33	3359.33			66.72	3358.61
MW046	4	3426.81	3426.51	47.43-67.43	47.43	67.43	3379.08	3359.08			67.43	3359.08
MW046A	4	3426.45	3426.94	87-107	87	107	3339.94	3319.94	901	3320.94	108.29	3318.65
MW047	4	3427.65	3427.96	46-66	46	. 66	3381.96	3361.96			65.40	3362.56
MW048SA	4	3421.10	3418.78	27-82	27	82	3391.78	3336.78	82	3336.78	83.66	3335.12
MW049SA	4	3422.46	3420,15	37-82	37	. 82	3383.15	3338.15	. 82	3338.15	82.68	3337.47
MW050SA	4	3419.31	3417.61	38-78	38	78	3379.61	3339.61	78	3339.61	79.25	3338.36
MW051SA	4	3415.42	3413,48	33-63	33	63	3380.48	3350.48	63	3350.48	64.00	3349.48
MW052SA	4	3415.23	3412.90	33-63	33	63	3379.90	3349.90	63	3349.90	64.19	3348.71
MW053SA	ŧ.	3413.86	3411.52	35-65	35	65	3376.52	3346.52	65	3346.52	65.81	3345.71
MW054SA	4	3411.38	3409.06	32-57	32	57	3377.06	3352.06	57	3352.06	57.79	3351.27
MW055SA	4	3407.43	3405.33	30-50	30	50	3375.33	3355.33	48.5	3356.83	50.85	3354.48
MW056SA	4	3410.71	3408.51	32-52	32	52	3376.51	3356.51	51	3357.51	52.72	3355.79
MW057SA	4	3417.74	3415.38	33-68	33	89	3382.38	3347.38	89	3347.38	68.84	3346.54
MW058	4	. 3437.13	3434.98	49-109	49	109	3385.98	3325.98			109.73	3325.25
MW059	4	3442.24	3440.02	45-105	45	105	3395.02	3335.02			104.90	3335.12
MW060	4	3437.70	3435.40	40-100	40	100	3395.40	3335.40			100.04	3335.36
MW061	4	3439.86	3437.77	48.5-108.5	48.5	108.5	3389.27	3329.27			109.56	3328.21
MW062A	4	3434.19	3432.41	801-86	86	108	3334.41	3324.41	106	3326.41	109.35	3323.06
MW063A	4	3435.22	3433.12	96-106	96	106	3337.12	3327.12	106	3327.12	106.54	3326.58
MW064SA	4	3405.15	3403.03	35-75	35	75	3368.03	3328.03	75	3328.03	75.50	3327.53
MW065SA	4	3402.96	3401.00	40-80	40	80	3361.00	3321.00	80	3321.00	80.46	3320.54
MW066SA	4	3404.03	3401.57	41-66	41	99	3360.57	3335.57	99	3335.57	66.39	3335.18
MW067SA	4	3409.16	3406.75	43-83	43	83	3363.75	3323.75	83	3323.75	81.90	3324.85
MW068	4	3448.08	3445.69	45-110	45	110	3400.69	3335.69	116	3329.69	110.47	3335.22
POWON		3444 07	3441 56	45-110	45	011	3396 56	3331 56	911	33 36 86	110.44	233113

Table 1 Summary of Well Details ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Well Id	Casing/Screen	Surveyed Measuring	Surveyed Ground	Screen	Top	Bottom	Top	Bottom	Base of	Base of	Completed	Completed
	Diameter	Point (MP)	Elevation *	Interval	of Screen	of Screen	of Screen	of Screen	Ogallala	Ogallala	Well Depth	Well TD
		Elevation *		(feet BGL)	(feet BGL)	(feet BGL)	Elevation *		\preceq			Elevation *
MW070	4	3439.68	3437.40	48-93	48	93	3389.40	3344.40			93.00	3344.40
MW070A	4	3439.67	3437.34	112-127	112	127	3325.34	3310.34	127	3310.34	124.92	3312.42
MW071SA	4	3401.01	3398.85	29-89	29	89	3369.85	3309.85	89	3309.85	89.84	3309.01
MW072SA	4	3401.34	3399.38	31-91	31	91	3368.38	3308.38	89	3310.38	91.59	3307.79
MW073SA	4	3403.26	3401.11	79-92	26	99	3375.11	3335.11	65	3336.11	66.85	3334.26
MW074SA	4	3409.97	3407.89	39-64	39	64	3368.89	3343.89	64	3343.89	64	3343.89
MW075SA	4	3404.21	3402.15	43-63	43	63	3359.15	3339.15	63	3339.15	63	3339.15
MW076SA	4	3404.13	3402.22	38-93	38	93	3364.22	3309.22	93	3309.22	. 93	3309.22
MW077SA	4	3401.71	3399.27	42-92	42	92	3357.27	3307.27	90	3309.27	92	3307.27
MW078SA	4	3411.12	3408.49	36-66	36	99	3372.49	3342.49	99	3342.49	99	3342.49
MW079SA	4	3408.80	3406.25	37-67	37	67	3369.25	3339.25	67	3339.25	29	3339,25
MW080SA	4	3408.92	3406.33	39-69	39	69	3367.33	3337.33	72	3334.33	69	3337.33
MW081SA	4	3408.28	3405.71	40-70	40	70	3365.71	3335.71	99	3339.71	70	3335.71
MW082SA	4	3406.25	3403.68	45-75	45	75	3358.68	3328.68	75	3328.68	75	3328.68
MW083SA	4	3406.11	3403.51	45-75	45	75	3358.51	3328.51	76	3327.51	7.5	3328.51
MW084SA	4	3405.98	3403.36	45-75	45	75	3358.36	3328.36	7.5	3328.36	7.5	3328.36
MW085SA	4	3405.98	3403.36	45-75	45	7.5	3358.36	3328.36	76	3327.36	7.5	3328.36
MW086SA	4	3401.86	3399.28	20-90	50	90	3349.28	3309.28	90	3309.28	8	3309.28
MW087A	4	3430.75	3428.18	90-115	90	. 115	3338.18	3313.18	110	3318.18	115	3313.18
MW088M	4	3430.63	3427.98	50-90	50	96	3377.98	3337.98	96	3337.98	06	3337.98
MW089SA	4			39-99	39	66			66		66	
MW090SA	4			36-101	36	101			101		101	
MW091SA	4			31-96	31	96			96		96	
MW092SA	4			31-96	31	96			96		96	
MW093SA	4			31-96	31	96			96		96	
RW001	9	3428.32	3425.73	44.01-104.01	44.01	104.01	3381.72	3321.72			104.01	3321.72
RW002	9	3431.66	3429.48	49.89-69.89	49.89	68.69	3379.59	3359.59			68.69	3359.59
RW003	9	3429.82	3427.53	45-65	45	65	3382.53	3362.53			65.48	3362.05
RW004A	9	3430,74	3427.76	96.4-116.4	96.4	116.4	3331.36	3311.36	115.	3312.76	116.40	3311.36
LordWW	9	3419.97	3419.47								68.22	3351.25
RowlandWW	9	3419.47	3418.47								65.54	3352.93
Woodellww	4	3423.77	N/A	77-97	77	97						
EPWWI	9	3429.95	3428.78								98.85	
IW001	4	3431.91	3429.47	40-90	40	06	3389.47	3339.47	06	3339.47	90.75	3338.72
IW002	4	3431.00	3427.78	40-90	40	06 .	3387.78	3337.78			90.40	3337.38
IW003	4	3406.68	3404.68	35-55	35	55	3369.68	3349.68	50	3354.68	55.00	3349,68
IW004	4	3406.31	3404.14	35-50	35	20	3369.14	3354.14	4	. 3360.14	50.00	3354.14

Summary of Well Details ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico Table 1

ARCADIS

Well Id	Casing/Screen	Surveyed Measuring	Surveyed Ground	Screen	Top	Bottom	Top	Bottom	Base of	Base of	Completed	Completed
	Diameter	Point (MP)	Elevation *	Interval	of Screen	of Screen	of Screen	of Screen	Ogallala	Ogallala	Well Depth	Well TD
		Elevation *		(feet BGL)	(feet BGL)	(feet BGL)	Elevation *	Elevation * Elevation *	(feet BGL) Elevation *	Elevation *	(feet BGL)	Elevation *
W005	4	3405.36	3403.53	36-46	98	46	3367.53	3357.53	43	3360.53	46.00	3357.53
IW006	4	3404.36	3402.39	35-50	35	50	3367.39	3352.39	45	3357.39	50.00	3352.39
1W007	4	3405.31	3403.46	36-46	36	46	3367.46	3357.46	43	3360.46	46.00	3357.46
IW008	4	3405.37	3403.30	35-50	35	50	3368.30	3353.30	44	3359.30	50.00	3353.30
1W009	4	3406.07	3404.04	35-45	35	45	3369.04	3359.04	43	3361.04	45.00	3359.04
W010	4	3405.82	3404.28	33-58	33	58	3371.28	3346.28	09	3344.28	58.00	3346.28
IW011	4	3406.83	3404.75	43-63	43	63	3361.75	3341.75	50	3354.75	63.00	3341.75
IW012	4	3405.92	3404.11	43-53	43	53	3361.11	3351.11	53	3351.11	53.00	3351.11
IW013	4	3406.62	3404.39	45-60	45	9	3359.39	3344.39	09	3344.39	90.09	3344.39
TW014	4	3405.48	3403.67	33-73	33	73	3370.67	3330.67	73	3330.67	73.00	3330.67
IW015	4	3406.05	3404.05	34-49	34	49	3370.05	3355.05	48	3356.05	49.00	3355.05
1W016	4	3408.29	3406.20	29-69	29	69	3377.20	3337.20	69	3337.20	00.69	3337.20
FW018	4			31-96	31	96			96		96.00	:
W019	4		-	31-96	31	96			96		96.00	
IW020	4			32-97	32	- 26			97		97.00	
IW021	4			32-97	32	97			26		97.00	
IW022	4		-	32-97	32	97			97		97.00	
IW023	4			34-98	34	86			86		98.00	
IW024	4			41-101	41	101			101		101.00	
IW025	4			41-101	41	101			101		101.00	
IW026	4			37-102	37	102			102		102.00	
IW027	4			39.5-99.5	39.5	99.5			103		105.00	
IW028	4	3428.18	3425.61	35-105	35	105	3390.61	3320.61	103	3322.61	105.00	3320.61

Notes:

BGL-Below Ground Level

WW - Water Well

MW - Abonitoring Well

RW - Recovery Well

IW - Injection Well

No Suffix - Shallow/Aiddle Monitoring Well Completion (MW069)

A - Deep Monitoring Well Completion (MW070A)

M-Yniddle Monitoring Well Completion (MW070A)

* A - New - A - N

ASML
SA-Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)

.

Table 2

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
MW001	┼		00.89	67.94	4	-0.37	3428.57	52.34	3376.23
	12/18/1997	N.					3428.57	52.32	3376.25
	11/16/1999	NR					3428.57	*51.32	3377.25
	5/15/2001	NR					3428.57	50.33	3378.24
	8/23/2001	1422					3428.57	51.02	3377.55
	1/21/2002	1550					3428.57	50.64	3377.93
	4/4/2002	NR.					3428.57	50.66	3377.91
	9/3/2002	1205					3428.57	50.44	3378.13
	12/2/2002	1527					3428.57	50.20	3378.37
	1/31/2003	606					3428.57	50.36	3378.21
	3/28/2003	1005			,		3428.57	50.54	3378.03
	5/19/2003	1630					3428.57	50.36	3378.21
	9/9/2003	1141					3428.57	50.52	3378.05
	1/26/2004	1300					3428.57	50.73	3377.84
	3/30/2004	1345					3428.57	50.71	3377.86
	6/7/2004	850					3428.57	50.76	3377.81
	9/17/2004	1218					3428.57	50.30	3378.27
	11/30/2004	NR					3428.57	49.90	3378.67
	3/31/2005	1505					3428.57	49.25	3379.32
	5/23/2005	N.					3428.57	49.15	3379.42
MW002	4/22/1997	N.	68.00	68.60	4	-0.28	3432.17	55.95	3376.22
	12/18/1997	NR					3432.17	55.62	3376.55
	11/16/1999	ĸ					3432.17	*54.97	3377.20
	5/15/2001	NR.					3432.17	54.15	3378.02
	8/23/2001	1340					3432.17	54.12	3378.05
	1/21/2002	1157					-3432.17	54.30	3377.87
	4/4/2002	1020					3432.17	54.31	3377.86
	9/3/2002	1200			l		3432.17	54.14	3378.03
	12/2/2002	1422					3432.17	53.88	3378.29
	1/30/2003	1359					3432.17	53.88	3378.29
	3/28/2003	1139					3432.17	54.16	3378.01
	5/19/2003	1540					3432.17	53.97	3378.20
	9/9/2003	1114					3432.17	54.05	3378.12
	12/2/2003	1605					3432.17	53.89	3378.28
	3/30/2004	1433					3432.17	54.11	3378.06
_		_							

Table 2

ARCADIS	Slo				G ChevronTe Eunic	tante 2 Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	vations North) Gas Plan iew Mexico			
	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater El (Feet AMS)
		9/17/2004	956					3432.17	53.94	3378.23
		11/30/2004	NR					3432.17	53.74	3378.43
		3/31/2005	1542					3432.17	53.37	3378.80
		5/23/2005	N.					3432.17	53.06	3379.11
	MW002A	1/7/2003	1200	123.00	124.05	4	-0.34	3432.31	54.03	3378.28
		1/30/2003	1351					3432.31	53.89	3378.42
		3/28/2003	1138					3432.31	54.11	3378.20
		5/19/2003	1545					3432.31	53.99	3378.32
		9/9/2003	1111					3432.31	54.12	3378.19
		12/2/2003	1603					3432.31	53.97	3378.34
		3/30/2004	1434					3432.31	54.20	3378.11
		6/7/2004	NR					3432.31	54.21	3378.10
		9/17/2004	859					3432.31	53.93	3378.38
		11/30/2004	NR					3432.31	53.74	3378.57
		3/31/2005	1540					3432.31	53.36	3378.95
		5/23/2005	NR					3432.31	53.08	3379.23
	MW003	4/22/1997	NR	00.89	70.00	4	1.83	3428.27	49.79	3378.48
		12/18/1997	NR		٠			3428.27	49.24	3379.03
		11/16/1999	NR					3428.27	*50.49	3377.78
		5/15/2001	NR					3428.27	49.63	3378.64
		8/23/2001	1320					3428.27	49.99	3378.28
		1/21/2002	1244					3428.27	49.81	3378.46
		4/4/2002	1140					3428.27	49.92	3378.35
		9/3/2002	1105					3428.27	49.80	3378.47
		12/2/2002	1402					3428.27	49.51	3378.76
		1/31/2003	901					3428.27	49.64	3378.63
		3/28/2003	955					3428.27	49.61	3378.66
		5/19/2003	1610					3428.27	49.57	3378.70
		9/9/2003	1156					3428.27	49.64	3378.63
		12/3/2003	1005					3428.27	49.70	3378.57
		3/30/2004	1301					3428.27	49.78	3378.49
		6/7/2004	NR					3428.27	49.74	3378.53
		9/17/2004	1156				.	3428.27	49.38	3378.89
		11/30/2004	NR					3428.27	48.80	3379.47
		3/31/2005	1434					3428.27	48.40	3379.87
		5/23/2005	N.					3428.27	48.31	3379.96

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	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	(Feet BTOC)	(Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	(Feet AMSL)
	MW004	4/22/1997	Æ		66.15	4	-0.41	3423.38	48.24	3375.14
		12/18/1997	Æ					3423.38	47.69	3375.69
		11/16/1999	Æ					3423.38	*46.76	3376.62
		5/15/2001	Æ					3423.38	45.91	3377.47
		8/23/2001	856					3423.38	46.12	3377.26
		1/21/2002	1226					3423.38	46.20	3377.18
		4/4/2002	1200					3423,38	46.27	3377.11
		9/3/2002	1045					3423.38	45.95	3377.43
		12/2/2002	1347					3423.38	45.85	3377.53
		1/31/2003	842	•				3423.38	45.94	3377.44
		3/28/2003	1021					3423.38	45.96	3377.42
		5/19/2003	1400					3423.38	45.97	3377.41
		9/9/2003	1036					3423.38	46.14	3377.24
		12/3/2003	1001					3423.38	46.15	3377.23
		3/30/2004	1347					3423.38	46.24	3377.14
		6/7/2004	AN AN					3423.38	46.19	3377.19
		9/17/2004	1138					3423.38	45.90	3377.48
		11/29/2004	NR					3423.38	45.44	3377.94
		3/31/2005	1421					3423.38	42.85	3380.53
		5/23/2005	NR					3423.38	44.90	3378.48
	MW004A	12/18/1997	NR	104.20	103.65	4	-0.24	3423.57	48.00	3375.57
		11/16/1999	N.R.					3423.57	*47.00	3376.57
		5/15/2001	Æ					3423.57	46.31	3377.26
		8/23/2001	953					3423.57	46.44	3377.13
		1/21/2002	1229					3423.57	46.44	3377.13
		4/4/2002	1200					3423.57	46.52	3377.05
		9/3/2002	1050					3423.57	46.49	3377.08
		12/2/2002	1345					3423.57	46.10	3377.47
		1/31/2003	844					3423.57	46.16	3377.41
		3/28/2003	1019					3423.57	46.20	3377.37
-		5/19/2003	1355					3423.57	46.21	3377.36
		9/9/2003	1038					3423.57	46.36	3377.21
		12/3/2003	958					3423.57	46.38	3377.19
		3/30/2004	NR					3423.57	46.45	3377.12
		6/7/2004	NR.					3423.57	46.66	3376.91
		000	:					23 5075	76.10	4

te Collection Time (Feet BGL)			Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Ground (F
11/30/2004 NR			\neg			3423.57	45.62	3377.95
3/31/2005 1422						3423.57	45.61	3377.96
5/23/2005 NR						3423.57	45.19	3378.38
4/22/1997 NR 68.00	00.89			4	-0.22	3424.77	49.30	3375.47
12/18/1997 NR						3424.77	49.52 (0.471)	3375.25
11/16/1999 NR	. :	. :				3424.77	*48.14	3376.63
5/15/2001 NR						3424.77	NR	Æ
8/23/2001 1425						3424.77	47.45P/47.82W	3377.26
1/21/2002 NR						3424.77	47.44P/47.80W	3377.28
4/9/2002 1300						3424.77	47.27P/47.31W	3377.49
4/10/2003 1200						3424.77	47.27 (sheen)	3377.50
5/19/2003 1536			1			3424.77	47.25	3377.52
9/8/2003 1145						3424.77	49.22	3375.55
12/3/2003 1116					İ	3424.77	47.51	3377.26
3/30/2004 1431						3424.77	47.56	3377.21
6/7/2004 NR						3424.77	47.54	3377.23
9/17/2004 1230						3424.77	47.18	3377.59
11/30/2004 NR						3424.77	46.51	3378.26
4/1/2005 1028			\neg			3424.77	46.26	3378.51
5/23/2005 NR			\neg			3424.77	46.04	3378.73
4/22/1997 NR 68.00 68.00		68.00		4	-0.48	3425.26	49.26	3376.00
12/18/1997 NR			\neg			3425.26	49.69 (2.78)	3375.57
11/16/1999 NR						3425.26	*48.69	3376.57
5/15/2001 NR			\neg			3425.26	47.36P/49.48W	3377.58
8/23/2001 1435						3425.26	47.61P/50.21W	3377.26
1/21/2002 NR			\neg			3425.26	47.60P/50.11W	3377.28
4/9/2002 1305						3425.26	47.28P/50.35W	3377.52
9/11/2002 1000	-					3425.26	47.11P/49.55W	3377.78
12/5/2002 NR						3425.26	47.35P/49.13W	3377.64
4/10/2003 1202						3425.26	47.38P/49.61W	3377.54
5/19/2003 1550						3425.26	47.35P/49.63W	3377.56
9/8/2003 1105						3425.26	47.56P/49.22W	3377.45
12/3/2003						3425.26	47.52P/49.95W	3377.37
3/30/2004 1434						3425.26	47.49P/50.63W	3377.29
6/7/2004 NR			٦			3425.26	47.70P/49.25W	3377.56
9/17/2004 1235						3425.26	47.40P/48.75W	

tion			П	1				_				_	_		_						<u>-</u>		Ţ	\neg	T	T	\neg	1			T		-		_	
Groundwater Elevation (Feet AMSL)	3377.76	3378.58	3378.65	3378.96	3377.82	3378.69	3378.33	3378.46	3378.36	3378.49	3378.79	3378.68	3378.69	3378.79	3378.66	3378.68	3378.50	3378.57	3378.95	3379.49	3379.89	33.79.98	3378.76	3377.91	3378.75	3378.41	3378.49	3378.39	3378.53	3378.81	3378.70	3378.70	3378.76	3378.70	3378.64	3378.53
Measured Depth to Water (Feet BTOC)	47.50/46.94W	46.67/46.70W	46.35P/46.49W	49.43	*50.57	49.70	50.06	49.93	50.03	49.90	49.60	49.71	49.70	49.60	49.73	49.71	49.89	49.82	49.44	48.90	48.50	48.41	49.37	*50.22	49.38	49.72	49.64	49.74	49.60	49.32	49.43	49.43	49.37	49.43	49.49	49.60
Top of Casing Elevation (Feet AMSL)	3425.26	3425.26	3425.26	3428.39	3428.39	3428.39	3428,39	3428.39	3428.39	3428,39	3428.39	3428.39	3,428,39	3428.39	3428.39	3428.39	3428.39	3428.39	3428,39	3428.39	3428.39	3428.39	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13	3428.13
Measured Stickup (Feet)				1.99												•							1.67													
Well Diameter (Inches)				4																			4													
Measured Depth (Feet BTOC)				67.84																			105.98													
Drilled Depth (Feet BGL)				66.29																			111.00													
Collection Time	NR	1032	NR	NR	NR	N.	1328	1246	1140	1055	1406	903	958	1410	1150	1012	1337	N.R.	1204	NR	1438	Z.	NR	NR	NR .	1330	1245	1140	1100	1404	905	1000	1415	1152	1009	1335
Collection Date	11/30/2004	4/1/2005	5/23/2005	12/18/1997	11/16/1999	5/15/2001	8/23/2001	1/21/2002	4/4/2002	9/3/2002	12/2/2002	1/31/2003	3/28/2003	5/19/2003	9/9/2003	12/3/2003	3/30/2004	6/7/2004	9/17/2004	11/30/2004	3/31/2005	5/23/2005	12/18/1997	11/16/1999	5/15/2001	8/23/2001	1/21/2002	4/4/2002	9/3/2002	12/2/2002	1/31/2003	3/28/2003	5/19/2003	9/9/2003	12/3/2003	3/30/2004
Station ID				MW007																			MW007A													The state of the s

G:\APROJECTISECOR\Task 1-N. Eunice Report Folders\Reports\2005 Report Tables\Table 2 Groundwater Elevations.xls

Table 2

Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Station II	Collection Date	Collection Time	Drilled Depth	Measured Depth	Well Diameter	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
ar nones	6/7/2004		1				3428.13	49.53	3378.60
	9/17/2004	1202					3428.13	49.22	3378.91
MW008	12/18/1997	N.	66.62	68.27	4	1.97	3430.13	50.76	3379.37
	6661/91/11	N.R.					3430.13	*52.25	3377.88
	5/15/2001	NA.					3430.13	51.36	3378.77
	8/23/2001	006					3430.13	51.72	3378.41
	1/21/2002	1138					3430.13	51.53	3378.60
	4/4/2002	1110					3430.13	51.60	3378.53
	9/3/2002	1120			·		3430.13	51.51	3378.62
	12/2/2002	1449					3430.13	51.27	3378.86
	1/31/2003	914					3430.13	51.31	3378.82
	3/28/2003	947					3430.13	51.31	3378.82
	5/19/2003	1555					3430.13	51.21	3378.92
	9/9/2003	1701					3430.13	51.33	3378.80
	12/3/2003	1016					3430.13	51.33	3378.80
	3/30/2004	1355					3430.13	51.40	3378.73
	6/7/2004	NR					3430.13	51.82	3378.31
	11/30/2004	N. N.					3430.13	50.64	3379,49
	3/31/2005	1446					3430.13	50.24	3379.89
	5/23/2005	NR					3430.13	50.14	3379.99
MW008M	1/21/2002	1136	85.00	88.05	4	2.31	3430.27	51.71	3378.56
	4/4/2002	1110					3430.27	51.77	3378.50
	9/3/2002	1125					3430.27	51.68	3378.59
	12/2/2002	1450					3430.27	51.45	3378.82
	1/31/2003	918					3430.27	51.52	3378.75
	3/28/2003	948					3430.27	51.47	3378.80
	5/19/2003	1600					3430.27	51.44	3378.83
	9/9/2003	1205					3430.27	51.49	3378.78
	12/3/2003	1014					3430.27	51.44	3378.83
	3/30/2004	1357					3430.27	51.52	3378.75
	6/7/2004	NR					3430.27	\$1.56	3378.71
	11/30/2004	X.					3430.27	50.79	3379,48
	3/31/2005	1459					3430.27	50.47	3379.80
	5/23/2005	NR					3430.27	50.32	3379.95
MW008A	12/18/1997	NR	114.00	114.83	4	2.05	3430.01	50.81	3379.20
	11/16/1999	NR					3430.01	*52.16	3377.85

1/2 1/2		NR							
1/2 1/2	23/2001 21/2002 44/2002 /3/2002 /2/2002 31/2003						3430.01	51.34	3378,67
1/2 44/4 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	21/2002 14/2002 31/2002 31/2003	850					3430.01	51.64	3378.37
4/4 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	/4/2002 /3/2002 //2/2002 31/2003	1137					3430.01	51.49	3378.52
9/ 1/1/ 3// 8/1/ 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	3/2002	1110					3430.01	51.53	3378.48
11.7 37.7 57.1 57.1 12.2 37.	31/2003	1130					3430.01	51.41	3378.60
1/2 3/7/ 5/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1	31/2003	1447					3430.01	51.16	3378.85
3/7	200000	916					3430.01	51.24	3378.77
5/1	3/78/7003	946					3430.01	51.25	3378.76
3/;	5/19/2003	1550					3430.01	51.21	3378.80
3/5	9/9/2003	1203					3430.01	51.26	3378.75
3/5	12/3/2003	1018					3430.01	51.21	3378.80
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3/30/2004	1354					3430.01	51.29	3378.72
_	6/7/2004	Ä					3430.01	51.32	3378.69
711	11/30/2004	N.R.					3430.01	50.68	3379.33
3/8	3/31/2005	1443	,	* 1	٠		3430.01	50.24	3379.77
2/5	5/23/2005	NR		ĺ			3430.01	50.12	3379.89
MW009 12/	12/18/1997	N.K.	99.99	68.57	4	2.25	3427.63	48.98	3378.65
11/	11/16/1999	NR					3427.63	*50.38	3377.25
1/5	5/15/2001	NR					3427.63	49.59	3378.04
7/8	8/23/2001	945					3427.63	49.85	3377.78
2/1	1/21/2002	1236					3427.63	49.82	3377.81
4/	4/4/2002	1335					3427.63	49.88	3377.75
/6	9/3/2002	1035					3427.63	49.75	3377.88
12,	12/2/2002	1353					3427.63	49.55	3378.08
1/3	1/31/2003	850				-	3427.63	49.60	3378.03
3/2	3/28/2003	1015					3427.63	49.57	3378.06
5/1	5/19/2003	1350					3427.63	49.53	3378.10
,6	9/9/2003	1042					3427.63	49.66	3377.97
12/	12/3/2003	950					3427.63	49.66	3377.97
3/3	3/30/2004	1322					3427.63	49.88	3377.75
./9	6/7/2004	XX					3427.63	49.77	3377.86
1/6	9/17/2004	1147					3427.63	49.60	3378.03
7/1	11/30/2004	NR.		į			3427.63	49.00	3378.63
3/3	3/31/2005	1433					3427.63	48.61	3379.02
5/2	5/23/2005	NR					3427.63	48.47	3379.16
MW009A 12/	12/18/1997	N.	101.00	102.33	4	2.14	3427.48	49.03	3378.45

									/
	5/15/2001	NR.					3427.48	*50.22	3377.26
		NR					3427.48	49.42	3378.06
,	8/23/2001	950					3427.48	49.64	3377.84
	1/21/2002	1235					3427.48	49.68	3377.80
,	4/4/2002	1335					3427.48	49.78	3377.70
	9/3/2002	1040					3427.48	49.55	3377.93
	12/2/2002	1350					3427.48	49.40	3378.08
	1/31/2003	852					3427.48	49.45	3378.03
	3/28/2003	1014					3427.48	49.44	3378.04
	5/19/2003	1345					3427.48	49.43	3378.05
	9/9/2003	1044					3427.48	49.52	3377.96
	12/3/2003	953					3427.48	49.63	3377.85
	3/30/2004	1324					3427.48	49.73	3377.75
	6/7/2004	NR.					3427.48	49.65	3377.83
	9/17/2004	1148					3427.48	49.48	3378.00
	11/30/2004	NR					3427.48	48.91	3378.57
	3/31/2005	1430			,		3427.48	48.42	3379.06
	5/23/2005	NR					3427.48	48.33	3379.15
MW010	10 12/18/1997	NR	65.10	64.72	4	-0.52	3419.42	43.22	3376.20
	11/16/1999	NR					3419.42	*41.27	3378.15
	5/15/2001	NR					3419.42	40.37	3379.05
	8/23/2001	1012					3419.42	40.61	3378.81
	1/21/2002	1318					3419.42	40.71	3378.71
	4/4/2002	1415					3419.42	40.85	3378.57
	9/3/2002	940					3419.42	40.65	3378.77
	12/2/2002	1255					3419.42	40.50	3378.92
	1/30/2003	1550					3419.42	40.51	3378.91
	3/28/2003	1029					3419.42	40.46	3378,96
	\$/19/2003	1325					3419.42	40.52	3378.90
	9/9/2003	1047					3419.42	40.52	3378.90
	12/7/2003	1452					3419.42	40.59	3378.83
	3/30/2004	1229					3419.42	40.81	3378.61
	6/7/2004	NR					3419.42	40.74	3378.68
	9/17/2004	1059					3419.42	40.50	3378.92
	11/30/2004	NR					3419.42	40.11	3379.31
	3/31/2005	1331					3419.42	39.63	3379.79

7 21	Groundwater Elevations	e #2 (North) Gas Plant	nty, New Mexico	
7 and F	Groundwater	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	

Station ID	Collection Date	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	1 op of Casing Elevation (Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
	5/23/2005	NR					3419.42	39.42	3380.00
MW011	11/16/1999	N.	66.50	68.70	4	2.04	3431.49	*53.58	3377.91
	5/15/2001	NR					3431.49	52.78	3378.71
	8/23/2001	910					3431,49	52.96	3378.53
	1/21/2002	1147					3431.49	52.84	3378.65
	4/4/2002	1045					3431.49	52.89	3378.60
	9/3/2002	1135					3431.49	52.80	3378.69
	12/2/2002	1436					3431.49	52.56	3378.93
	1/30/2003	1422		,			3431.49	52.51	3378.98
	3/28/2003	1121					3431.49	52.63	3378.86
	5/19/2003	1510					3431.49	52.58	3378.91
	9/9/2003	1208					3431.49	52.60	3378.89
	12/3/2003	1027					3431.49	52.52	3378.97
	3/30/2004	1408					3431.49	52.56	3378.93
	6/7/2004	NR					3431.49	52.61	3378.88
	11/30/2004	NR.					3431.49	52.16	3379.33
	3/31/2005	1601					3431.49	52.82	3378.67
	5/23/2005	NR					3431.49	51.58	3379.91
MW011M	1/21/2002	1146	90.00	92.70	4	1.83	3431.21	52.68	3378.53
	4/4/2002	1045			·		3431.21	52.63	3378.58
	9/3/2002	1140					3431.21	52.54	3378.67
	12/2/2002	1433					3431.21	52.32	3378.89
	1/30/2003	1425					3431.21	52.25	3378.96
	3/28/2003	1119		٠.			3431.21	52.32	3378.89
	5/19/2003	1515					3431.21	52.31	3378.90
	9/9/2003	1212					3431.21	52.30	3378.91
	12/3/2003	1029					3431.21	52.25	3378.96
	3/30/2004	1406					3431.21	52.31	3378.90
	6/7/2004	N.					3431.21	52.34	3378.87
	11/30/2004	NR					3431.21	51.91	3379.30
	3/31/2005	1602					3431.21	52.62	3378.59
	5/23/2005	NR					3431.21	51.38	3379.83
MW011A	12/18/1997	NR	116.00	117.50	4	2.23	3431.77	51.49	3380.28
	11/16/1999	NR					3431.77	*53.49	3378.28
	5/15/2001	NR					3431.77	53.07	3378.70
	8/23/2001	000					1000	0000	1000

G:\APROJECT\SECOR\Task 1-N. Eunice Report Folders\Reports\2005 Report Tables\Table 2 Groundwater Elevations.xls

Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico Table 2

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	1/21/2002	1149					3431.77	53.04	3378.73
	4/4/2002	1045					3431.77	53.13	3378.64
	9/3/2002	1145					3431.77	53.01	3378.76
	12/2/2002	1430					3431.77	52.76	3379.01
	1/30/2003	1419					3431.77	52.72	3379.05
	3/28/2003	1122					3431.77	52.85	3378.92
	5/19/2003	1505					3431.77	52.78	3378.99
	9/9/2003	1210					3431.77	52.82	3378.95
	12/3/2003	1025					3431.77	52.83	3378.94
	3/30/2004	1410					3431.77	53.04	3378.73
	6/7/2004	NR					3431.77	53.03	3378.74
	11/30/2004	NR					3431.77	53.03	3378.74
	3/31/2005	1559		:			3431.77	52.18	3379.59
	5/23/2005	NR					3431.77	51.94	3379.83
-MW012	6661/91/11	N.	66.50	68.07	4	1.85	3429.51	*51.12	3378.39
	5/15/2001	NR					3429.51	50.50	3379.01
	8/23/2001	1050					3429.51	50.50	3379.01
	1/21/2002	1255					3429.51	50.48	3379.03
	4/5/2002	1225					3429.51	50.49	3379.02
	9/3/2002	6011					3429.51	50.40	3379.11
	12/2/2002	1313					3429.51	50.25	3379.26
	1/30/2003	1330					3429.51	50.13	3379.38
	3/28/2003	1059					3429.51	50.25	3379.26
	5/19/2003	1450					3429.51	50.15	3379.36
	9/9/2003	1219					3429.51	50.11	3379.40
	12/3/2003	1037					3429.51	50.05	3379.46
	3/30/2004	1413					3429.51	50.18	3379.33
	6/7/2004	NR					3429.51	50.13	3379.38
	11/30/2004	NR					3429.51	49.66	3379.85
	3/31/2005	1608					3429.51	49.58	3379.93
	5/23/2005	NR					3429.51	49.23	3380.28
MW012M	1/21/2002	1255	00.06	91.33	4	2.27	3430.06	50.95	3379.11
	4/5/2002	1225					3430.06	51.37	3378.69
	9/3/2002	1111					3430.06	50.89	3379.17
	12/2/2002	1310	ignores				3430.06	50.75	3379.31
	1/30/2003	1333					3430.06	50.65	3379.41

3379.27

44.84

3424.11

Table 2

ARCADIS

1022 3424.11 45.11 1249 3424.11 45.14 1245 3424.11 45.22 1125 3424.11 45.11	1022 3424.11 45.11 1249 3424.11 45.14 1245 3424.11 45.22 1125 3424.11 45.11	1022 3424.11 45.11 1249 3424.11 45.14 1245 3424.11 45.22 1125 3424.11 45.11	1022 3424.11 45.11 45.11 45.12 1245 3424.11 45.22 125 3424.11 45.22 125	1022 3424.11 45.11 45.11 45.12 1245 3424.11 45.22 3424.11 45.22 125 3424.11 45.11 45.11 45.12 125 1264 126	1022 3424.11 45.11 45.11 45.12 1245 3424.11 45.22 125 3424.11 45.12 45.12 125 3424.11 45	1022 3424.11 45.11 1249 3424.11 45.14 1245 3424.11 45.22 1125 3424.11 45.11	3429.92 *51.50 3429.92 \$6.83 3429.92 \$0.83 3429.92 \$0.84 3429.92 \$0.84 3429.92 \$0.80 3429.92 \$0.80 3429.92 \$0.65 3429.92 \$0.65 3429.92 \$0.63 3429.92 \$0.63 3429.92 \$0.63 3429.92 \$0.63 3429.92 \$0.51 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.49 3429.92 \$0.49 3429.92 \$0.49 3429.92 \$0.49 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.92 \$0.52 3429.11 \$0.52 3424.11 \$0.52 3424.11 \$0.52 3424.11 \$0.52 3424.11 \$0.52 3424.11 \$0.52 3424.11 \$0.52	-0.53	4	60.18	60.20	1107 1318 1328 1058 1455 1221 1041 1041 1041 1041 1041 NR NR NR NR NR NR NR NR NR NR NR NR NR	9/3/2002 1/2/2002 1/30/2003 3/28/2003 3/19/2003 9/9/2003 1/2/3/2003 3/30/2004 6/7/2004 11/30/2004 3/31/2005 5/23/2005 5/15/2001
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NR NR 1609 1609 1609</td> <td>3/28/2003 5/19/2003 9/9/2003 12/3/2003 3/30/2004 6/7/2004 11/30/2004 3/31/2005 5/23/2005 11/16/1999 5/15/2001 1/21/2002 4/5/2002</td>	PURZZOOL 1100 343,006 50,76 S192003 1500 50,76 50,76 S192003 1217 343,006 50,71 S202004 1217 343,006 50,63 S202005 1217 343,006 50,63 S202006 11415 343,006 50,70 S202007 11415 343,006 50,70 S21,2004 NR 116,00 116,08 4 218 343,06 50,70 S17,2004 NR 116,00 116,08 4 218 343,06 50,13 S17,2004 NR 116,00 116,08 4 218 342,92 50,83 S17,2003 NR 116,00 116,08 4 218 342,92 50,83 S17,2004 1131 101 342,92 50,83 50,83 S17,2003 1132 101 342,93 50,83 50,83 S17,2004 11,161,999 NR 60,10 10,12	2000 3100 34006 5076 51900 1100 34006 5076 99000 1217 34006 50.03 120200 1217 34006 50.03 120200 1217 34006 50.03 120200 1217 34006 50.03 110000 11609 4 2.18 34306 50.03 110000 11609 4 2.18 34306 50.03 120200 180 4 2.18 34306 50.03 120200 180 4 2.18 34202 50.03 120200 180 4 2.18 34202 50.03 120200 180 1160 1160 4 2.18 34202 50.03 120200 180 180 4 2.18 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17202003 1100 94000 50.71 51702003 1500 340006 50.71 51702003 1950 340006 50.71 19202004 1415 340006 50.03 33002004 1418 340006 50.03 311,02005 1809 50.00 50.00 311,02005 1809 50.00 50.00 311,02005 1809 50.00 50.00 311,02005 1809 50.00 50.00 311,02005 NR 116.00 116.00 4.00 411,02006 1045 6.00 50.00 50.00 511,02007 NR 116.00 116.00 4.00 51.80 445,2000 NR 1100 116.00 116.00 50.00 50.00 11,100,090 NR 1100 116.00 116.00 117.00 50.00 50.00 11,100,000 11.00 10.00 11.00 11.00 11.00 11.00 11.00	17202003 1100 94000 50.71 51702003 1500 343006 50.71 51702003 1950 343006 50.71 12072003 1415 24006 50.63 3340004 1415 24006 50.70 3410005 1415 24006 50.70 34110006 1415 24006 50.70 34110006 1409 343006 50.70 34110007 1160 116.00 4 51.80 34110008 180 343006 50.70 34110009 180 343006 50.80 34110009 180 343006 50.80 34110009 180 1160 4 51.8 50.80 34110000 110 1160 1160 1160 50.80 50.80 34110000 1131 11 111 111 111 111 111 111 111 111 111 111 111 111	17202003 1100 1400 50.71 51702003 1550 3430.06 50.71 51702003 1550 3430.06 50.71 1272003 1415 3430.06 50.63 343004 1415 3430.06 50.70 3411005 1416 3430.06 50.70 3411006 1609 50.70 5430.06 50.70 3411006 1609 110.00 110.00 4 2.18 3430.06 50.70 3411006 1609 110.00 110.00 110.00 4 2.18 3430.06 50.70 3411006 1609 110.00	1720/2003 (100) 740,006 50.71 5170/2003 (150) 343,006 50.71 5170/2003 (151) 343,006 50.61 120/2003 (115) 343,006 50.61 3170/2003 (118) 343,006 50.70 3170/2003 (118) 343,006 50.70 3170/2003 (180) 4 218 343,006 50.70 3170/2003 (180) (110) 4 218 343,006 50.10 3170/2003 (180) (180) 4 218 343,006 50.10 3170/2003 (180) (180) 4 218 343,006 50.10 3170/2003 (180) (180) (180) 4 218 343,006 50.10 3170/2003 (180) (180) (180) (180) 342,902 50.80 3170/2003 (110) (180) (180) (180) 342,902 50.80 3170/2003 (110)	1720/2003 1100 1400 50.71 5170/2003 1500 3430.06 50.71 5170/2003 1210 3430.06 50.71 120/2003 1115 3430.06 50.70 3170/2003 1118 3430.06 50.70 3170/2003 1118 3430.06 50.70 3170/2003 1039 3430.06 50.70 3170/2003 108 3430.06 50.70 3170/2003 108 4 218 3430.06 50.10 3170/2003 NR 116.00 4 218 3430.06 50.10 3170/2003 NR 116.00 16.08 4 218 3430.06 50.10 3170/2003 NR 116.00 16.08 4 218 3430.06 50.10 3170/2003 1107 1041 1042 1042.02 50.80 50.80 3170/2003 1103 1041 1042.02 1042.02 50.60 50.80	1720/2003 1100 1400 50.71 5170/2003 1150 3430.66 50.71 1970/2003 1150 3430.66 50.71 1970/2003 1115 3430.66 50.70 310/2004 1415 3430.66 50.70 310/2004 NR 160 3430.66 50.70 311/2005 NR 116.00 16.08 4 218 3430.06 50.70 311/2005 NR 116.00 16.08 4 218 3430.06 50.30 311/2005 NR 116.00 16.08 4 218 3430.06 50.30 311/2005 NR 116.00 16.08 4 218 3430.06 40.51 4172/2003 NR 116.00 16.08 4 218 3429.02 50.80 111/21/2003 1107 10.05 10.07 14.29.02 50.80 50.80 1100/2004 11.05 10.05 10.05 10.05 14.29	1782/2003 (100) 340.06 50.71 5170/2003 (150) 343.06 50.71 5170/2003 (150) 343.06 50.71 1201/2003 (1017) 343.06 50.03 330/2004 (1415) (1608) 50.03 3711/2005 (1609) (1608) 4 218 343.06 50.03 111/20/2004 (1609) </td <td>3430.06 50.76 3430.06 50.63 3430.06 50.63 3430.06 50.30 3430.06 50.30 3430.06 50.30 3430.06 50.30 3430.06 49.64</td> <td>7.818</td> <td></td> <td>116.08</td> <td></td> <td>1100 1500 1217 1039 1415 NR NR NR NR NR NR 1609 1609 1609 1609</td> <td>3/28/2003 9/9/2003 9/9/2003 12/3/2003 12/3/2004 6/7/2004 11/36/2004 3/31/2005 5/23/2005 12/18/1997 11/16/1999 5/15/2001 1/21/2002 4/5/2002</td>	3430.06 50.76 3430.06 50.63 3430.06 50.63 3430.06 50.30 3430.06 50.30 3430.06 50.30 3430.06 50.30 3430.06 49.64	7.818		116.08		1100 1500 1217 1039 1415 NR NR NR NR NR NR 1609 1609 1609 1609	3/28/2003 9/9/2003 9/9/2003 12/3/2003 12/3/2004 6/7/2004 11/36/2004 3/31/2005 5/23/2005 12/18/1997 11/16/1999 5/15/2001 1/21/2002 4/5/2002
COMERÇIO DIRECTOR CONTRECION TORS CONTREGIO DIRECTOR CONTREGION TORS (FORT AND INCIDENT) (FORT BTOC) (FORT BTOC) <t< td=""><td>Collection Dise Collection Time (Feet BTOC) (Inches) Stickup (Feet) Mater (Feet BTOC) 31/20/2003 1/100 1/100 3430.06 30.15 99/2003 1/101 3430.06 30.15 99/2003 1/101 3430.06 30.05 11/20/2004 NR 116.00 116.08 4 23/21/2003 NR 116.00 116.08 4 2.18 3430.06 50.30 11/10/2004 NR 116.00 116.08 4 2.18 3430.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.53 21/21/2003 11/10/2004 NR 116.08 4 2.18 3429.92 50.81 21/21/2003 11/21/200 10.25 10.25</td><td>Collection Dise Collection Time (Feet BTOC) (Inches) Stickupp (Feet) Feet ANISH) Water (Feet BTOC) 51/20/2003 1100 3430.06 3430.06 50.53 19/2003 1217 3430.06 3430.06 50.63 19/2003 1217 3430.06 30.03 50.53 19/2003 1217 3430.06 30.03 50.53 11/20/2004 NR 3430.06 30.32 50.53 11/20/2004 NR 116.00 116.08 4 2.18 3430.06 50.30 51/20/2004 NR 116.00 116.08 4 2.18 3430.06 50.53 51/20/2004 NR 116.00 116.08 4 2.18 3420.06 50.53 51/20/2004 NR 116.00 116.08 4 2.18 3420.06 50.53 51/20/2007 1107 NR 4 2.18 3420.05 50.53 51/20/2007 1107 NR 2.18 3420.92</td><td>Collection Dise Collection Time (Teet BTOC) (Inches) Stickup (Feet MSIS) Water (Feet BTOC) S1/20/2003 1/100 1/100 1430.06 90.700 S1/20/2003 1/100 1/100 140.06 90.00 S1/20/2003 1/100 1/100 140.06 90.00 S1/20/2003 1/100 1/100 116.08 440.06 50.00 S1/20/2004 NR 1/100 116.08 4 2.18 3430.06 50.00 S1/20/2004 NR 116.09 116.08 4 2.18 3430.06 50.00 S1/20/2004 NR 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 118 1 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 118 1 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 1131 1 1 1 1 1429.92 50.50 </td></t<> <td>Collection Dise Collection Dise Collection Dise Collection Dise Water (Feet BTOC) (Inches) Stickupp (Feet) Gene AbSID Stickupp Stickupp Standood S</td> <td>Collection Date Collection Date Separation S1922003 1100</td> <td>Collection Dise Collection Dise Collection Dise (Total BTO) (Total BTO</td> <td>(Feet AMSL) Water (Feet BTOC) 3430.06 50.76 3430.06 50.71 3430.06 50.63 3430.06 50.63 3430.06 50.70 3430.06 50.30 3430.06 50.30 3430.06 49.64 3429.92 49.73</td> <td></td> <td></td> <td>────────────────────────────────────</td> <td></td> <td>Collection 1 1100 1100 11039 1039 10415 NR NR NR NR NR NR 1045 11257</td> <td>Collection Date 3/28/2003 5/19/2003 9/9/2003 12/3/2004 6/7/2004 11/39/2004 11/39/2005 5/23/2005 12/18/1997 11/16/1999 5/15/2001 8/23/2002 4/5/2002</td>	Collection Dise Collection Time (Feet BTOC) (Inches) Stickup (Feet) Mater (Feet BTOC) 31/20/2003 1/100 1/100 3430.06 30.15 99/2003 1/101 3430.06 30.15 99/2003 1/101 3430.06 30.05 11/20/2004 NR 116.00 116.08 4 23/21/2003 NR 116.00 116.08 4 2.18 3430.06 50.30 11/10/2004 NR 116.00 116.08 4 2.18 3430.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.30 21/21/2003 NR 116.00 116.08 4 2.18 3420.06 50.53 21/21/2003 11/10/2004 NR 116.08 4 2.18 3429.92 50.81 21/21/2003 11/21/200 10.25 10.25	Collection Dise Collection Time (Feet BTOC) (Inches) Stickupp (Feet) Feet ANISH) Water (Feet BTOC) 51/20/2003 1100 3430.06 3430.06 50.53 19/2003 1217 3430.06 3430.06 50.63 19/2003 1217 3430.06 30.03 50.53 19/2003 1217 3430.06 30.03 50.53 11/20/2004 NR 3430.06 30.32 50.53 11/20/2004 NR 116.00 116.08 4 2.18 3430.06 50.30 51/20/2004 NR 116.00 116.08 4 2.18 3430.06 50.53 51/20/2004 NR 116.00 116.08 4 2.18 3420.06 50.53 51/20/2004 NR 116.00 116.08 4 2.18 3420.06 50.53 51/20/2007 1107 NR 4 2.18 3420.05 50.53 51/20/2007 1107 NR 2.18 3420.92	Collection Dise Collection Time (Teet BTOC) (Inches) Stickup (Feet MSIS) Water (Feet BTOC) S1/20/2003 1/100 1/100 1430.06 90.700 S1/20/2003 1/100 1/100 140.06 90.00 S1/20/2003 1/100 1/100 140.06 90.00 S1/20/2003 1/100 1/100 116.08 440.06 50.00 S1/20/2004 NR 1/100 116.08 4 2.18 3430.06 50.00 S1/20/2004 NR 116.09 116.08 4 2.18 3430.06 50.00 S1/20/2004 NR 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 118 1 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 118 1 116.00 116.08 4 2.18 3429.02 50.50 S1/20/200 1131 1 1 1 1 1429.92 50.50	Collection Dise Collection Dise Collection Dise Collection Dise Water (Feet BTOC) (Inches) Stickupp (Feet) Gene AbSID Stickupp Stickupp Standood S	Collection Date Separation S1922003 1100	Collection Dise Collection Dise Collection Dise (Total BTO) (Total BTO	(Feet AMSL) Water (Feet BTOC) 3430.06 50.76 3430.06 50.71 3430.06 50.63 3430.06 50.63 3430.06 50.70 3430.06 50.30 3430.06 50.30 3430.06 49.64 3429.92 49.73			────────────────────────────────────		Collection 1 1100 1100 11039 1039 10415 NR NR NR NR NR NR 1045 11257	Collection Date 3/28/2003 5/19/2003 9/9/2003 12/3/2004 6/7/2004 11/39/2004 11/39/2005 5/23/2005 12/18/1997 11/16/1999 5/15/2001 8/23/2002 4/5/2002

1/30/2003

Table 2	Groundwater Elevations	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	
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Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
1236					3424.11	45.91	3378.20
1335					3424.11	44.90	3379.21
1053					3424.11	44.89	3379.22
1446					3424.11	44.75	3379.36
1241					3424.11	44.94	3379.17
Ä					3424.11	44.98	3379.13
1123					3424.11	44.82	3379.29
NR					3424.11	44.53	3379.58
1321					3424.11	44.05	3380.06
NR					3424.11	43.85	3380.26
NR	110.00	105.22	4	-0.39	3424.25	46.84	3377.41
NR					3424.25	*45.79	3378.46
NR					3424.25	45.06	3379.19
1018					3424.25	45.22	3379.03
1251					3424.25	45.17	3379.08
1245					3424.25	45.23	3379.02
1127					3424.25	45.15	3379.10
1300					3424.25	44.94	3379.31
1537					3424.25	44.80	3379.45
1237					3424.25	44.96	3379.29
1340					3424.25	44.91	3379.34
1055					3424.25	44.89	3379.36
1443					3424.25	44.78	3379.47
1243					3424.25	45.01	3379.24
1243					3424.25	44.96	3379.29
1118					3424.25	44.80	3379.45
N.					3424.25	44.56	3379.69
1324					3424.25	44.06	3380.19
N.					3424.25	43.82	3380:43
K.	65.00	06.09	4	-0.29	3424.05	45.22	3378.86
A.					3424.05	44.61	3379.44
1035					3424.05	44.48	3379.57
1346					3424.05	44.49	3379.56
1200					3424.05	44.60	3379.45
1048					3424.05	44.25	3379.80
1215					3424.05	44.24	3379.81
	Collection Time 1236 1335 1335 1346 1241 NR 1123 NR 1124 1127 1243 1243 1243 1243 1243 1243 1243 1243		(Feet BGL) 110.00 110.00 65.00	Prilled Depth Measured Depth (Feet BGL) (Feet BTOC) 110.00 105.22 110.00 105.22 65.00 60.90	Prilied Depth Weal Diameter	Prilied Depth Measured Depth Well Diameter Measured	Drilled Depth Measured Depth Well Diameter Measured Top of Casing Elevation

ARCADIS	SI				ChevronTe; Eunic	ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	vorth) Gas Plant ew Mexico			
	Station	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	Station XD		1458	t^-				3424.05	44.19	3379.86
		3/28/2003	1209					3424.05	44.31	3379.74
		5/19/2003	1305					3424.05	44.25	3379.80
		9/9/2003	940					3424.05	44.18	3379.87
		12/2/2003	1437					3424.05	44.03	3380.02
		3/30/2004	1147					3424.05	44.25	3379.80
		6/7/2004	K					3424.05	44.18	3379.87
		9/14/2004	1431					3424.05	44.16	3379.89
		11/30/2004	N. N.					3424.05	43.98	3380.07
		3/31/2005	1311					3424.05	43.57	3380.48
		5/23/2005	N.R.					3424.05	40.76	3383.29
	MW014A	12/18/1997	A.N.	109.00	105.10	4	-0.32	3423.93	45.93	3378.00
		6661/91/11	N. N.					3423.93	44.89	3379.01
		5/15/2001	A.N.					3423,93	44.40	3379.53
		8/23/2001	1028					3423.93	44.27	3379.66
		1/21/2002	1345					3423.93	44.25	3379.68
		4/5/2002	1200					3423.93	44.37	3379.56
		9/3/2002	1050					3423.93	44.20	3379.73
		12/2/2002	1218					3423.93	43.99	3379.94
		1/30/2003	1454					3423.93	43.95	3379.98
		3/28/2003	1210					3423.93	44.16	3379.77
		5/19/2003	1300					3423.93	44.01	3379.92
		9/9/2003	942					3423.93	43.93	3380.00
		12/2/2003	1439					3423.93	43.96	3379.97
		3/30/2004	1149					3423.93	44.05	3379.88
		6/7/2004	ĸ					3423.93	43.98	3379.95
		9/16/2004	1433					3423.93	43.89	3380.04
		11/30/2004	Æ					3423.93	43.71	3380.22
		3/31/2005	1310					3423.93	43.30	3380.63
		5/23/2005	NR					3423.93	43.04	3380.89
	MW015	11/16/1999	NR	55.00	54.12	4	-0.34	3420.40	41.46	3378.94
		5/15/2001	NR					3420.40	40.85	3379.55
		8/23/2001	1123					3420,40	40.85	3379.55
		1/21/2002	1311					3420.40	40.81	3379.59
		4/4/2002	1425					3420.40	40.99	3379.41
		9/3/2002	920					3420.40	40.75	3379.65

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				G Chevron Te Eunic	Table 2 Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	ations (orth) Gas Plant ew Mexico			
dien II	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater E (Feet AMS
ation 10			+-	ı			3420.40	40.53	3379.87
	1/30/2003	1520					3420.40	40.51	3379.89
	3/28/2003	1219					3420.40	40.64	3379.76
	5/19/2003	1320					3420.40	40.56	3379.84
	9/8/2003	1500					3420.40	40.57	3379.83
	12/2/2003	1457					3420.40	40.51	3379.89
	3/30/2004	1202					3420.40	40.81	3379.59
	6/7/2004	ž					3420.40	40.60	3379.80
	9/16/2004	1449					3420.40	40.55	3379.85
	11/30/2004	£					3420.40	40.22	3380.18
	3/31/2005	1340					3420.40	39.77	3380.63
	\$/23/2005	ž					3420.40	39.58	3380.82
fW015A	$oxed{\bot}$	Æ	103.00	102.15	4	-0.34	3420.55	42.50	3378.05
	<u> </u>	Æ					3420.55	41.33	3379.22
	5/15/2001	N. N.					3420.55	40.69	3379.86
	8/23/2001	1118					3420.55	40.71	3379.84
	1/21/2002	1351					3420.55	40.72	3379.83
	4/4/2002	1425					3420.55	40.89	3379.66
	9/3/2002	915					3420.55	40.66	3379.89
	12/2/2002	1226					3420.55	40.43	3380.12
	1/30/2003	1516					3420.55	40.30	3380.25
	3/28/2003	1218					3420.55	40.54	3380.01
	5/19/2003	1325					3420.55	40.52	3380.03
	9/8/2003	1503					3420.55	40.49	3380.06
	12/2/2003	1459					3420.55	40.42	3380.13
	3/30/2004	1204					3420.55	40.72	3379.83
	6/7/2004	N.					3420.55	40.61	3379.94
	9/16/2004	1501					3420.55	40.44	3380.11
	11/30/2004	Æ					3420.55	40.21	3380.34
	3/31/2005	1343					3420.55	39.70	3380.85
	5/23/2005	Z.					3420.55	39.50	3381.05
AW016A		NR	91.60	91.52	4	-0.33	3419.92	41.98	3377.94
	_	NR					3419.92	40.80	3379.12
) 	5/15/2001	NR					3419.92	40.34	3379.58
	8/23/2001	1128					3419.92	40.21	3379.71
	1/21/2002	1356					3419.92	40.33	3379.59

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	on ID Collection Date	te Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	I op of Casing Elevation (Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
	4/4/2002	1418					3419.92	40.51	3379.41
	9/3/2002	911					3419.92	40.16	3379.76
	12/2/2002	1229					3419.92	39.90	3380.02
	1/30/2003	1526					3419.92	39.89	3380.03
	3/28/2003	1224					3419.92	40.05	3379.87
	5/19/2003	1315					3419.92	40.15	3379.77
	9/8/2003	1454					3419.92	40.11	3379.81
	12/2/2003	1455					3419.92	40.17	3379.75
	3/30/2004	NR					3419.92	40.43	3379.49
	6/7/2004	NR.		-			3419.92	40.26	3379.66
	9/16/2004	1446					3419.92	39.98	3379.94
	11/30/2004	NR					3419.92	39.53	3380.39
	3/31/2005	1336					3419.92	39.05	3380.87
	5/23/2005	N.					3419.92	38.96	3380.96
MW017A	117A 12/18/1997	N. N.	106.00	103.50	4	-0.48	3424.38	46.05	3378.33
	11/16/1999	XX.					3424.38	45.12	3379.26
	5/15/2001	NR.					3424.38	44.53	3379.85
	8/23/2001	1114					3424.38	44.49	3379.89
	1/21/2002	1403		,			3424.38	44.42	3379.96
	4/4/2002	1435					3424.38	44.58	3379.80
	9/3/2002	1043					3424.38	44.38	3380.00
	12/2/2002	1212				1	3424.38	44.15	3380.23
	1/30/2003	1446					3424.38	44.10	3380.28
	3/28/2003	1157					3424.38	44.23	3380.15
	5/19/2003	1310					3424.38	44.19	3380.19
	9/8/2003	1512					3424.38	44.13	3380.25
	12/2/2003	1521	·				3424.38	44.07	3380.31
	3/30/2004	1035					3424.38	44.26	3380.12
	6/7/2004	N. N.					3424.38	44.21	3380.17
	9/16/2004	1440					3424.38	44.14	3380.24
	11/30/2004	N.R.					3424.38	43.89	3380.49
	3/31/2005	1349					3424.38	43.44	3380.94
-	5/23/2005	NR					3424.28	43.24	3381.04
MW018	018 5/15/2001	N. N.	55.00	54.00	4	-0.30	3417.15	37.82	3379.33
_	5/15/2001	Æ					3417.15	37.90	3379.25
	.000,000								

Table 2

Measured Depth to Groundwater Eleva 37.90 3379.25 38.15 3379.00 37.34 3379.78 37.38 3379.77 37.39 3379.77 37.34 3379.77 37.81 3379.34 37.82 3379.49 37.83 3379.29 37.84 3379.29 37.85 3379.24 37.86 3379.24 37.87 3379.24 37.62 3379.24 37.62 3379.24 37.62 3379.24 37.62 3379.24 37.62 3379.24 37.52 3379.24 37.54 3379.32 37.55 3379.32 37.54 3379.32 37.54 3379.32 37.54 3379.32 37.54 3379.32 37.55 3379.32 37.56 3379.36 37.50 3379.36 37.50 3379.36

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	5/15/2001	NR					3414.74	38.02	3376.72
	8/23/2001	1145					3414.74	37.62	3377.12
	1/21/2002	1300					3414.74	37.92	3376.82
	4/4/2002	NR					3414.74	38.15	3376.59
	9/3/2002	935					3414.74	37.40	3377.34
	12/2/2002	NR				-	3414.74	37.46	3377.28
	1/30/2003	1129					3414.74	37.61	3377.13
	3/28/2003	1317		•			3414.74	37.79	3376.95
	5/19/2003	1434					3414.74	37.91	3376.83
	9/8/2003	1436					3414.74	38.06	3376.68
	12/2/2003	1301					3414.74	38.22	3376.52
	3/30/2004	1303					3414.74	38.41	3376.33
	6/7/2004	N.					3414.74	37.93	3376.81
	9/16/2004	1212					3414.74	37.82	3376.92
	11/29/2004	NR					3414.74	36.70	3378.04
	3/31/2005	1050					3414.74	36.35	3378.39
	5/23/2005	NR					3414.74	36.62	3378.12
MW020	11/16/1999	NR	55.00	57.95	4	2.26	3420.85	44.58	3376.27
	2/6/2002	1135					3420.85	44.02	3376.83
	9/3/2002	1045					3420.85	43.79	3377.06
	12/9/2002	, NR					3420.85	43.84	3377.01
	1/30/2003	1140					3420.85	43.78	3377.07
	3/28/2003	1324					3420.85	43.86	3376.99
	6/5/2003	1200					3420.85	43.93	3376.92
	1/22/2004	905					3420.85	44.39	3376.46
	3/30/2004	1525					3420.85	44.41	3376.44
	6/7/2004	NR					3420.85	44.16	3376.69
	9/17/2004	1412					3420.85	43.99	3376.86
	11/29/2004	NR					3420.85	43.59	3377.26
	4/1/2005	1123			•		3420.85	43.12	3377.73
	5/23/2005	AN.					3420.85	42.99	3377.86
MW020A	11/16/1999	NR	81.00	80.40	4	2.53	3421.14	44.70	3376.44
	2/6/2002	1020					3421.14	44.14	3377.00
	9/3/2002	925					3421.14	43.98	3377.16
	12/9/2002	Ä					3421.14	44.06	3377.08
	1/30/2003	1136					3421.14	43.98	3377.16

ation		·									T			7														T								
Groundwater Elevation (Feet AMSL)	3377.09	3376.70	3376.46	3376.55	3376.81	3376.99	3377.39	3377.90	3377.98	3374.90	3375.63	3375.38	3375.53	3375.37	3375.47	3375.71	3375.74	3375.70	3375.63	3375.51	3375.50	3375.51	3375.27	3375.57	3375.92	3376.44	3376.50	3374.53	3375.37	3374.96	3375.11	3374.96	3374.87	3375.31	3375.33	3375.23
Measured Depth to Water (Feet BTOC)	44.05	44.44	44.68	44.59	44.33	44.15	43.75	43.24	43.16	47.82	47.09	47.34	47.19	47.35	47.25	47.01	46.98	47.02	47.09	47.21	47.22	47.21	47.45	47.15	46.80	46.28	46.22	48.41	47.57	47.98	47.83	47.98	48.07	47.63	47.61	47.71
Top of Casing Elevation (Feet AMSL)	3421.14	3421,14	3421.14	3421.14	3421.14	3421.14	3421.14	3421.14	.3421.14	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.72	3422.94	3422.94	3422.94	3422.94	3422.94	3422.94	3422.94	3422.94	3422.94
Measured Stickup (Feet)										2.22																		2.16								
Well Diameter (Inches)										4																		4							,	
Measured Depth (Feet BTOC)										62.43							٠											87.65								
Drilled Depth (Feet BGL)										00.09																		81.00								
Collection Time	1325	1305	44.68	1523	NR	1414	NR	1125	NR	NR	NR	1009	1311	1345	1020	1128	1040	1438	1220	1323	1433	1544	NR	1412	N.	943	NR	NR	NR	1005	1310	1345	1025	1126	1045	1436
Collection Date	3/28/2003	6/5/2003	1/22/2004	3/30/2004	6/7/2004	9/17/2004	11/29/2004	4/1/2005	5/23/2005	11/16/1999	5/15/2001	8/23/2001	1/21/2002	4/4/2002	9/3/2002	12/2/2002	1/30/2003	3/28/2003	5/19/2003	6)/8/2003	1/21/2004	3/30/2004	6/7/2004	9/17/2004	11/29/2004	3/31/2005	5/23/2005	11/16/1999	5/15/2001	8/23/2001	1/21/2002	4/4/2002	9/3/2002	12/2/2002	1/30/2003	3/28/2003
Station ID		-								. MW021																		MW021A								

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	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Ele (Feet AMSI
		5/19/2003	1225	1				3422.94	47.96	3374.98
		9/8/2003	1325					3422.94	48.01	3374.93
		1/21/2004	1435					3422.94	48.73	3374.21
		3/30/2004	1545					3422.94	47.94	3375.00
		6/7/2004	Æ					3422.94	48.28	3374.66
		9/14/2004	1408					3422.94	47.95	3374.99
		11/29/2004	Æ					3422.94	47.35	3375.59
		3/31/2005	945					3422.94	46.93	3376.01
		5/23/2005	N. N.					3422.94	47.04	3375.90
	MW022A	11/16/1999	Ä	105.00	102.71	4	2.31	3431.13	57.29	3373.84
		5/15/2001	A.R.					3431.13	53.35	3377.78
		8/23/2001	1344					3431.13	53.96	3377.17
		1/21/2002	1202					3431.13	53.75	3377.38
		4/4/2002	1005					3431.13	90.99	3365.13
		9/3/2002	1136					3431.13	52.96	3378.17
		12/2/2002	1456					3431.13	52.95	3378.18
		1/31/2003	924					3431.13	53.25	3377.88
		3/28/2003	938					3431.13	53.58	3377.55
		5/19/2003	1624					3431.13	53.26	3377.87
		9/9/2003	1134					3431.13	66:99	3364.14
		12/3/2003	922					3431.13	66.97	3364.16
		3/30/2004	1318					3431.13	64.08	3367.05
		6/7/2004	N.R.					3431.13	61.36	3369.77
		9/17/2004	1003					3431.13	53.22	3377.91
		11/30/2004	NR					3431.13	54.56	3376.57
		3/31/2005	1512					3431.13	52.44	3378.69
		5/23/2005	NR					3431.13	52.30	3378.83
	MW023	11/16/1999	NR	67.00	69.10	4	2.09	3436.44	58.42	3378.02
		5/15/2001	NR					3436.44	57.73	3378.71
		8/23/2001	1435					3436.44	57.79	3378.65
		2/7/2002	1110					3436.44	57.77	3378.67
		9/3/2002	1210					3436.44	57.69	3378.75
		12/2/2002	1426					3436.44	57.46	3378.98
		1/30/2003	1339					3436.44	57.41	3379.03
		3/28/2003	1108					3436.44	57.50	3378.94
		5/19/2003	1440					3436.44	57.41	3379.03

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	1	1102					3436.44	57.39	3379.05
	12/2/2003	1532					3436.44	57.14	3379.30
	3/30/2004	858					3436.44	57.34	3379.10
	6/7/2004	ž					3436.44	57.21	3379.23
	9/17/2004	946			•		3436.44	57.34	3379.10
	11/30/2004	Ä					3436.44	57.16	3379.28
	3/31/2005	1552					3436.44	56.92	3379.52
	5/23/2005	N. R.					3436.44	89.95	3379.76
MW023A	1/9/2003	NR.	120.00	123.80	4	2.25	3436.26	57.70	3378.56
	1/30/2003	1342					3436.26	57.23	3379.03
	3/28/2003	11111					3436.26	57.33	.3378.93
	5/19/2003	1445					3436.26	57.25	3379.01
	9/9/2003	1100					3436.26	53.23	3383.03
	12/2/2003	1535					3436.26	57.23	3379.03
	3/30/2004	901					3436.26	57.25	3379.01
	6/7/2004	NR.		,			3436.26	57.35	3378.91
	9/17/2004	948			,		3436.26	57.14	3379.12
	11/30/2004	NR.					3436.26	57.11	3379.15
	3/31/2005	1554					3436.26	56.62	3379.64
	5/23/2005	A.R.					3436.26	56.46	3379.80
MW024	1/9/2003	N.	86.00	89.60	4	2.34	3431.32	53.76	3377.56
	1/29/2003	1405					3431.32	53.64	3377.68
	3/27/2003	1350	-				3431.32	53.85	. 3377.47
	5/19/2003	1145					3431.32	53.77	3377.55
	9/9/2003	1030	-				3431.32	53.93	3377.39
	12/2/2003	1345					3431.32	53.86	3377.46
	3/30/2004	758					3431.32	54.10	3377.22
	6/7/2004	NR					3431.32	54.21	3377.11
	9/16/2004	1639					3431.32	53.71	3377.61
	11/29/2004	N.					3431.32	53.54	3377.78
	3/31/2005	1131					3431.32	53.06	3378.26
	5/23/2005	NR					3431.32	52.78	3378.54
MW024A	11/16/1999	NR	105.00	101.00	4	1.54	3430.77	54.30	3376.47
	5/15/2001	NR.					3430.77	53.32	3377.45
	8/23/2001	1445					3430.77	53.86	3376.91
- 	2/6/2002	1525					3430.77	53.42	3377.35
			-		-				

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Eunice, Lea County, New Mexico Groundwater Elevations

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Top of Casing Elevation Measured Depth to Groundwater Elevation (Feet AMSL) (Feet AMSL) 3377.55 3379.52 3379.68 3379.86 3379.89 3379.83 3377.46 3377.04 3376.88 3378.51 3379.66 3380.10 3380.14 3380.04 3377.74 3377.66 3377.08 3376.90 3377.66 3377.73 3378.27 3379.41 3379.45 3379.67 3380.07 3379.99 3380.07 3380.28 3380.59 3379.09 3379.96 3379.98 3380.13 3380.21 3380.81 53.02 53.89 52.50 53.24 53.03 53.17 52.83 52.80 52.86 52.59 52.62 52.55 52.70 52.62 52.48 52.10 51.88 52.08 53.26 53.03 53.11 53.73 53.69 53.04 52.26 53.23 53.01 52.06 52.00 53.31 53.22 53.87 53.11 52.41 52.95 51.91 3432.69 3432.69 3432.69 3432.69 3430.77 3432.69 3432.69 3432.69 3432.69 3432.69 3432.69 3432.69 3432.04 3432.04 3432.04 3430.77 3432.69 3430.77 3430.77 3430.77 3430.77 3432.69 3432.69 3432.69 3432.69 3432.69 3432.69 3432.04 3432.04 3430.77 3430.77 3430.77 3430.77 3430.77 3430.77 3430.77 Chevron Texaco Eunice #2 (North) Gas Plant Stickup (Feet) Measured -0.25 -0.55 | Drilled Depth | Measured Depth | Well Diameter | (Feet BGL) | (Inches) 62.78 66.20 65.00 67.00 Collection Time 1339 1110 1407 1440 1347 1054 1205 1313 1509 1635 1027 1506 1341 1408 1353 1150 1129 NR 1057 1207 1431 1306 Ħ 1031 1635 933 801 \mathbb{R} Ř K 虽 邕 色 K R Collection Date 5/23/2005 11/16/1999 11/29/2004 11/16/1999 1/21/2002 11/29/2004 1/21/2002 12/2/2003 3/30/2004 9/16/2004 3/31/2005 12/2/2002 1/29/2003 3/28/2003 5/19/2003 12/2/2003 3/30/2004 9/16/2004 3/31/2005 5/23/2005 12/2/2002 1/29/2003 3/27/2003 5/19/2003 6/7/2004 5/15/2001 8/23/2001 4/5/2002 9/3/2002 9/9/2003 5/15/2001 8/23/2001 4/4/2002 9/9/2003 6/7/2004 9/3/2002 Station ID MW025 MW026

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	9/3/2002	1031					3432.04	\$1.99	3380.05
	12/2/2002	1140					3432.04	51.60	3380.44
	1/30/2003	1434					3432.04	51.43	3380.61
	3/28/2003	1203					3432.04	51.62	3380.42
	5/19/2003	1250					3432.04	51.52	3380.52
	9/8/2003	1507				_	3432.04	51.64	3380.40
	12/2/2003	1515					3432.04	51.49	3380.55
	3/30/2004	1139					3432.04	51.70	3380.34
	6/7/2004	Ä					3432.04	51.69	3380.35
	9/16/2004	1420					3432.04	51.62	3380.42
	11/30/2004	NR.					3432.04	\$1.56	3380.48
	3/31/2005	13.52					3432.04	51.03	3381.01
	5/23/2005	X.					3432.04	50.79	3381.25
MW027	11/16/1999	NR.	71.50	71.52	4	-0.45	3443.33	64.65	3378.68
	5/15/2001	Z.					3443.33	64.09	3379.24
	8/23/2001	1059					3443.33	63.82	3379.51
	1/21/2002	1412					3443.33	63.87	3379.46
	4/4/2002	1445				i	3443.33	63.90	3379.43
	9/3/2002	1015					3443.33	63.90	3379.43
	12/2/2002	1144					3443.33	63.64	3379.69
	1/30/2003	1306					3443.33	63.59	3379.74
	3/27/2003	1535					3443.33	63.49	3379.84
	5/19/2003	1245					3443.33	63.63	3379.70
	9/8/2003	1518					3443.33	63.58	3379.75
	12/2/2003	1505					3443.33	63.48	3379.85
	3/30/2004	1013					3443.33	63.62	3379.71
	6/7/2004	Z.	-				3443.33	63.67	3379.66
	9/16/2004	1407					3443.33	63.55	3379.78
	11/29/2004	N.					3443.33	63.48	3379.85
	3/31/2005	1401					3443.33	62.98	3380.35
	5/23/2005	NR					3443.33	62.73	3380.60
MW028	11/16/1999	Æ	85.00	85.15	4	1.59	3451.63	73.52	3378.11
	5/15/2001	N.					3451.63	72.89	3378.74
	8/23/2001	1105					3451.63	72.86	3378.77
	1/21/2002	1518					3451.63	72.75	3378.88
	4/5/2002	1145					3451.63	72.77	3378.86

Table 2

Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Stat	Station ID 6	Collection Date	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	(Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
		9/3/2002	1007					3451.63	72.71	3378.92
		12/2/2002	1152					3451.63	72.55	3379.08
		1/29/2003	1335					3451.63	72.51	3379.12
		3/28/2003	1038					3451.63	72.58	3379.05
		5/19/2003	1625					3451.63	72.52	3379.11
		9/9/2003	006					3451.63	72.53	3379.10
		1/28/2004	NR					3451.63	72.53	3379.10
<u></u>		3/30/2004	1557					3451.63	72.36	3379.27
<u></u>		6/7/2004	NR					3451.63	72.25	3379.38
<u></u>		9/17/2004	1348					3451.63	72.28	3379.35
		11/29/2004	NR					3451.63	71.89	3379.74
		4/1/2005	1102					3451.63	71.71	3379.92
		\$/23/2005	꽃					3451.63	71.55	3380.08
Σ	MW029	11/16/1999	Æ	80.00	81.45	4	2.14	3446.89	68.62	3378.27
		5/15/2001	NA NA	,				3446.89	68.12	3378.77
		8/30/2001	1453				,	3446.89	68.47	3378.42
		2/6/2002	1545					3446.89	67.97	3378.92
		9/3/2002	1000					3446.89	67.86	3379.03
<u></u>		12/2/2002	1328					3446.89	67.70	3379.19
		1/29/2003	1350					3446.89	67.73	3379.16
		3/27/2003	1433					3446.89	67.66	3379.23
<u> </u>		5/19/2003	1215					3446.89	67.63	3379.26
<u>. </u>		9/9/2003	1007					3446.89	67.68	3379.21
		12/2/2003	1402					3446.89	62:29	3379.30
<u></u>		3/30/2004	845					3446.89	67.50	3379.39
	_	6/7/2004	NR					3446.89	67.53	3379.36
		6/16/2004	1542					3446.89	67.49	3379.40
		11/29/2004	NR					3446.89	67.58	3379.31
		3/31/2005	1150					3446.89	67.33	3379.56
		5/23/2005	Æ					3446.89	67.15	3379.74
M	MW030	4/24/2002	1256	77.00	77.41	4	2.3	3439.84	61.42	3378.42
		5/7/2002	815					3439.84	61.30	3378.54
		9/3/2002	955					3439.84	61.39	3378.45
		12/2/2002	1333					3439.84	61.18	3378.66
		1/29/2003	1355					3439.84	61.80	3378.04
		1000/10/1						7430.04	61 12	1110 10

Table 2

ARCADIS	SI				GhevronTe Eunic	Table 2 Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	vations North) Gas Plant iew Mexico			
	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to	Groundwater E (Feet AM)
		5/19/2003	+					3439.84	61.16	3378.68
		9/9/2003	1010					3439.84	61.16	3378.68
		12/2/2003	1356					3439.84	61.06	3378.78
		3/30/2004	833					3439.84	61.04	3378.80
		6/7/2004	NR .					3439.84	61.03	3378.81
		9/17/2004	1356					3439.84	61.06	3378.78
		11/29/2004	NR					3439.84	. 61.08	3378.76
		3/31/2005	1147					3439.84	08.09	3379.04
		5/23/2005	NR					3439.84	60.60	3379.2
	MW031	4/25/2002	1035	76.00	77.21	4	2.4	3440.68	61.80	3378.88
		5/7/2002	825					3440.68	61.85	3378.8
		9/3/2002	1009					3440.68	61.88	3378.8
		12/2/2002	1325					3440.68	61.73	3378.9
		1/29/2003	1345					3440.68	61.71	3378.9
		3/27/2003	1440					3440.68	61.65	3379.0
		5/19/2003	1220					3440.68	61.67	3379.0
		9/9/2003	953					3440.68	61.68	3379
		12/2/2003	1407					3440.67	61.50	3379.16
		3/30/2004	912					3440.67	61.53	3379.13
		6/7/2004	NR					3440.67	61.51	3379.15
		9/16/2004	1530		,			3440.67	61.48	3379.19
		11/29/2004	NR					3440.68	61.43	3379.2
		3/31/2005	1153					3440.68	61.04	3379.6
		5/23/2005	Ä.					3440.68	96'09	3379.72
	MW032	4/4/2002	NR.	68.00	69.25	4	-0.48	3442.22	62.71	3379.5
		9/3/2002	1020					3442.22	62.61	3379.6
		12/2/2002	1200					3442.22	62.40	3379.8
		1/31/2003	1114					3442.22	62.55	3379.6
		3/27/2003	1524					3442.22	62.32	3379.90
		5/19/2003	1240					3442.22	62.37	3379.8
		9/9/2003	840					3442.22	62.38	3379.8
		12/2/2003	1508					3442.22	62.23	3379.99
		3/30/2004	1004					3442.22	62.30	3379.97
		6/7/2004	K.					3442.22	62.28	3379.9
		9/16/2004	1413					3442.22	62.14	3380.08
		3/31/2005	1408					3442.22	61.54	3380.68
	_	5/23/2005	ž					3442.22	61.35	3380.87

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Table 2

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
MW033	4/4/2002	NR	62.00	63.50	4	-0.20	3428.86	48.95	3379.91
	9/3/2002	1037					3428.86	48.86	3380.00
	12/5/2002	NR					3428.86	48.76	3380.10
	1/31/2003	1140					3428.86	48.63	3380.23
	3/27/2003	1547					3428.86	48.50	3380.36
	5/19/2003	1045					3428.86	48.63	3380.23
	9/9/2003	1308					3428.86	48.59	3380.27
	12/3/2003	1151					3428.86	48.69	3380.17
,	3/30/2004	1403					3428.86	49.78	3379.08
	6/7/2004	NR					3428.86	48.64	3380.22
	9/16/2004	1427					3428.86	48.51	3380.35
	11/30/2004	NR					3428.86	48.41	3380.45
	4/1/2005	1901					3428.86	48.24	3380.62
	5/23/2005	NR					3428.86	47.73	3381.13
MW034	4/4/2002	NR	62.00	63.10	4	-0.48	3418.76	43.49	3375.27
	9/3/2002	955					3418.76	43.43	3375.33
	12/2/2002	1114					3418.76	43.24	3375.52
	1/30/2003	1151					3418.76	43.31	3375.45
	3/28/2003	1420					3418.76	43.20	3375.56
	5/19/2003	1503					3418.76	43.24	3375.52
	9/8/2003	1418	:				3418.76	43.43	3375.33
	12/2/2003	1209	-				3418.76	43.37	3375.39
	3/30/2004	1103					3418.76	43.55	3375.21
	6/7/2004	NR					3418.76	43.50	3375.26
	9/16/2004	1238					3418.76	43.41	3375.35
	11/29/2004	ž					3418.76	43.71	3375.05
	3/31/2005	1005					3418.76	42.66	3376.10
	5/23/2005	NR					3418.76	42.52	3376.24
MW035	8/23/2001	1354	62.00	65.60	4	2.47	3427.39	50.49	3376.90
	1/21/2002	1208					3427.39	50.45	3376.94
	4/4/2002	935				-	3427.39	50.58	3376.81
	9/3/2002	1150					3427.39	50.04	3377.35
	12/2/2002	1516					3427.39	50.03	3377.36
	1/31/2003	947			ì		3427.39	50.03	3377.36
	3/28/2003	922					3427.39	50.19	3377.2
	5/19/2003	1558					3427.39	50.24	3377.15

Table 2

7 7051	Groundwater Elevations	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	

Station ID	Collection Date	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	lop of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	9/9/2003	1120					3427.39	50.35	3377.04
	12/3/2003	830					3427.39	50.32	3377.07
	3/30/2004	1251					3427.39	50.52	3376.87
	6/7/2004	NR					3427.39	50.51	3376.88
	9/17/2004	1028					3427.39	49.98	3377.41
	11/30/2004	NR					3427.39	49.09	3378.3
	3/31/2005	1530					3427.39	49.02	3378.37
	5/23/2005	NR					3427.39	49.06	3378.33
MW036	8/23/2001	1405	62.00	62.64	4	-0.35	3425.49	48.36	3377.13
	1/21/2002	1211					3425.49	48.22	3377.27
	4/4/2002	940					3425.49	48.24	3377.25
	9/3/2002	1220					3425.49	47.75	3377.74
	12/2/2002	1520					3425.49	47.78	3377.71
	1/31/2003	958					3425.49	47.84	3377.65
	3/28/2003	918					3425.49	47.91	3377.58
	5/19/2003	1554	-				3425.49	47.96	3377.53
	9/9/2003	1249					3425.49	48.12	3377,37
	12/3/2003	1102					3425.49	48.22	3377.27
	3/30/2004	1418					3425.49	48.37	3377.12
	6/7/2004	N.					3425.49	48.32	3377.17
	9/17/2004	1034					3425.49	47.86	3377.63
	11/30/2004	NR					3425.49	47.20	3378.29
	4/1/2005	1018					3425.49	46.89	3378.6
	5/23/2005	NR			-		3425.49	46.80	3378.69
MW037	8/23/2001	1420	62.00	61.72	4	-0.37	3423.71	46.60	3377.11
	1/21/2002	1232					3423.71	46.59	3377.12
	4/4/2002	1150					3423.71	46.62	3377.09
	9/3/2002	1225					3423.71	46.07	3377.64
	12/2/2002	1533					3423.71	46.17	3377.54
	1/31/2003	830					3423.71	46.28	3377.43
	3/28/2003	1504					3423.71	46.29	3377.42
	5/19/2003	1405					3423.71	46.39	3377.32
	9/9/2003	1303					3423.71	46.52	3377.19
	12/3/2003	1053					3423.71	46.46	3377.25
	3/30/2004	1413					3423.71	47.76	3375.95
	7000717	2					11,000		1 1 1

	Station ID	Collection Date	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	(Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
		9/17/2004	1134					3423.71	46.18	3377.53
		11/30/2004	NR					3423.71	45.51	3378.2
		4/1/2005	1042					3423.71	45.34	3378.37
-		5/23/2005	NR					3423.71	45.21	3378.5
	MW038	8/23/2001	1415	62.00	61.98	4	-0.34	3425.23	47.85	3377.38
		1/21/2002	1213		,			3425.23	47.69	3377.54
		4/4/2002	955					3425.23	47.81	3377.42
		9/3/2002	1230					3425.23	47.43	3377.8
		12/2/2002	1522					3425.23	47.30	3377.93
		1/31/2003	1003					3425.23	47.41	3377.82
		3/28/2003	912					3425,23	47.51	3377.72
		5/19/2003	1522					3425.23	47.42	3377.81
		9/9/2003	1259					3425.23	47.61	3377.62
		12/3/2003	1107					3425.23	47.72	3377.51
		3/30/2004	1427					3425.23	47.80	3377.43
		6/7/2004	Æ					3425.23	47.76	3377.47
		9/17/2004	1224					3425.23	47.44	3377.79
		11/30/2004	N.					3425.23	46.89	3378.34
		4/1/2005	1023					3425.23	46.54	3378.69
		5/23/2005	NR					3425.23	46.35	3378.88
	MW039A	8/23/2001	1330	118.00	119.59	4	2.36	3435.71	57.85	3377.86
	-	1/21/2002	1153					3435.71	57.62	3378.09
		4/4/2002	1030					3435.71	57.71	3378
		9/3/2002	1155					3435.71	57.47	3378.24
		12/2/2002	1419					3435.71	57.20	3378.51
		1/30/2003	1403					3435.71	57.20	3378.51
		3/28/2003	1131					3435.71	57.40	3378.31
		5/19/2003	1530					3435.71	57.27	3378.44
		9/9/2003	1109					3435.71	57.43	3378.28
		12/2/2003	1558					3435.71	57.32	3378.39
		3/30/2004	1329					3435.71	57.43	3378.28
		6/7/2004	NR					3435.71	57.52	3378.19
		9/17/2004	954					3435.71	57.22	3378.49
		11/30/2004	NR					3435.71	57.00	3378.71
		3/31/2005	1537		. ,			3435.71	56.54	3379.17
		5/23/2005	ž					3435.71	. 66.98	3370 47

2		Collection Date Collection Time	Collection Time	(Feet BGL)	(Feet BTOC)	(Feet BTOC) (Inches)	Stickup (Feet)	(Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
	MW040A	4/4/2002	NR	110.00	110.10	4	-0.48	3422.92	43.70	3379.22
		9/3/2002	945					3422.92	43.90	3379.02
-,,-		12/2/2002	1258					3422.92	43.71	3379.21
		1/31/2003	1046					3422.92	43.71	3379.21
		3/28/2003	1233					3422.92	43.71	3379.21
		5/19/2003	1330			,		3422.92	43.69	3379.23
		9/9/2003	1051					3422.92	43.69	3379.23
•		12/2/2003	1448					3422.92	43.68	3379.24
		3/30/2004	1234					3422.92	43.84	3379.08
		6/7/2004	NR					3422.92	43.97	3378.95
		9/17/2004	1129					3422.92	43.70	3379.22
		11/30/2004	NR					3422.92	43.29	3379.63
		3/31/2005	1328					3422.92	32.79	3390.13
		5/23/2005	N.R.					3422.92	42.55	3380.37
N	MW041A	4/29/2002	800	00.06	88.00	4	-0.25	3418.42	43.22	3375.2
		5/7/2002	NR					3418.42	43.12	3375.3
		9/3/2002	950					3418.42	43.30	3375.12
		12/2/2002	1112					3418.42	43.04	3375.38
		1/30/2003	1146					3418.42	43.19	3375.23
		3/28/2003	1421					3418.42	43.01	3375.41
		5/19/2003	1500					3418.42	43.08	3375.34
		9/8/2003	1416					3418.42	43.23	3375.19
		12/2/2003	1206					3418.42	43.23	3375.19
		3/30/2004	1109					3418.42	43.38	3375.04
		6/7/2004	NR					3418.42	43.33	3375.09
		9/16/2004	1240					3418.42	43.24	3375.18
		11/29/2004	NR					3418.42	42.97	3375.45
		3/31/2005	1003					3418.42	42.49	3375.93
		5/23/2005	NR					3418.42	42.35	3376.07
2	MW042A	8/23/2001	1400	102.00	99.47	4	-0.39	3424.75	46.26	3378.49
		1/21/2002	1209					3424.75	48.30	3376.45
		4/4/2002	930					3424.75	48.17	3376.58
]		9/3/2002	1151					3424.75	47.86	3376.89
		12/2/2002	1514					3424.75	47.75	3377
		1/31/2003	945					3424.75	47.65	3377.1
]		3/28/2003	925					3424.75	47.84	3376.91

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	5/19/2003	1603					3424.75	47.84	3376.91
	9/9/2003	1122					3424.75	48.04	3376.71
	12/3/2003	833					3424.75	48.00	3376.75
	3/30/2004	1254					3424.75	48.31	3376,44
	6/7/2004	NR					3424.75	48.42	3376.33
	9/17/2004	1026					3424.75	48.58	3376.17
	11/29/2004	NR					3424.75	47.24	3377.51
	3/31/2005	1527					3424.75	47.30	3377.45
	5/23/2005	ŇR					3424.75	47.05	3377.7
MW043	5/7/2002	810	62.00	65.00	4	1.98	3423.57	47.61	3375.96
	9/3/2002	1015					3423.57	47.53	3376.04
	12/2/2002	1122					3423.57	47.42	3376.15
	1/30/2003	1048					3423.57	47.38	3376.19
	3/28/2003	1442					3423.57	47.44	3376.13
	5/19/2003	1229					3423.57	47.50	3376.07
	6/8/2003	1331					3423.57	47.64	3375.93
	12/2/2003	1054					3423.57	47.55	3376.02
	3/30/2004	1009					3423.57	47.84	3375.73
	6/7/2004	NR					3423.57	47.82	3375.75
,	9/14/2004	1418					3423.57	47.44	3376.13
	11/29/2004	NR					3423.57	46.55	3377.02
	3/31/2005	950					3423.57	46.49	3377.08
	5/23/2005	NR					3423.57	46.51	3377.06
MW044	4/4/2002	NR	60.00	61.50	. 4	-0.40	3420.41	43.86	3376.55
	9/3/2002	1010					3420.41	43.52	3376.89
	12/2/2002	1118					3420.41	43.47	3376.94
	1/30/2003	1155					3420.41	43.68	3376.73
	3/28/2003	1415					3420.41	43.49	3376.92
	5/19/2003	1509					3420.41	43.58	3376.83
	9/8/2003	1421					3420.41	43.69	3376.72
	12/2/2003	1213					3420.41	43.65	3376.76
	3/30/2004	1115					3420.41	43.90	3376.51
	6/7/2004	NR					3420.41	43.88	3376.53
	9/16/2004	1249					3420.41	43.49	3376.92
	11/29/2004	Ŋ.					3420.41	43.06	3377.35
	3/31/2005	958					3420.41	42.59	3377.82

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Table 7	Groundwater Elevations	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	5/23/2005	N.					3420.41	42.55	3377.86
MW045	4/4/2002	912	00.99	95.99	4	-0.16	3425.53	48.57	3376.96
	9/3/2002	1146					3425.53	48.15	3377.38
	12/2/2002	1509	-				3425.53	47.94	3377.59
	1/31/2003	941					3425.53	48.08	3377.45
	3/28/2003	929					3425.53	48.31	3377.22
	5/19/2003	1611					3425.53	48.11	3377.42
	9/9/2003	1125					3425.53	48.34	3377.19
-	12/3/2003	848	-			-	3425.53	48.37	3377.16
	3/30/2004	1301					3425.53	48.44	3377.09
	6/7/2004	N.					3425.53	48.61	3376.92
	9/17/2004	1016					3425.53	48.10	3377.43
	11/30/2004	NR					3425.53	47.60	3377.93
	3/31/2005	1525					3425.53	47.05	3378.48
	5/23/2005	ĸ				-	3425.53	46.98	3378.55
MW046	4/4/2002	855	66.00	67.00	4	-0.43	3426.81	49.93	3376.88
	9/3/2002	1143					3426.81	49.37	3377.44
	12/2/2002	1502					3426.81	49.17	3377.64
	1/31/2003	930					3426.81	49.33	3377.48
	3/28/2003	933					3426.81	49.66	3377.15
	5/19/2003	1620					3426.81	49.35	3377.46
	9/9/2003	1129					3426.81	49.67	3377.14
	12/3/2003	852					3426.81	49.75	3377.06
	3/30/2004	1309					3426.81	49.82	3376.99
	6/7/2004	N.					3426.81	50.05	3376.76
	9/17/2004	1011				1	3426.81	49.33	3377.48
	11/30/2004	NR.					3426.81	48.99	3377.82
	3/31/2005	1517					3426.81	48.36	3378.45
	5/23/2005	N.					3426.81	48.18	3378.63
MW046A	1/7/2003	1205	107.00	107.80	4	-0.49	3426.45	50.09	3376.36
	1/31/2003	933					3426.45	48.81	3377.64
	3/28/2003	934					3426.45	49.06	3377.39
	5/19/2003	1616					3426.45	48.88	3377.57
	9/9/2003	1131					3426.45	50.48	3375.97
	12/3/2003	858					3426.45	50.54	3375.91
	3/30/2004	1307					3426.45	50.33	3376.12

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	 -	Æ					3426.45	50.20	3376.25
	9/17/2004	1013					3426.45	48.83	3377.62
	11/30/2004	N.R.	,				3426.45	48.66	3377.79
	3/31/2005	1525					3426.45	47.92	3378.53
	5/23/2005	A.		,			3426.45	47.75	3378.7
MW047	4/4/2002	1130	66.00	64.95	4	-0.45	3427.65	49.54	3378.11
	9/3/2002	1215					3427.65	49.40	3378.25
	12/2/2002	1412					3427.65	49.16	3378.49
	1/31/2003	958					3427.65	49.22	3378.43
	3/28/2003	1009					3427.65	49.29	3378.36
	5/19/2003	1635					3427.65	49.21	3378.44
	9/9/2003	1146					3427.65	49.36	3378.29
	12/3/2003	1057					3427.65	49.38	3378.27
	3/30/2004	1341					3427.65	49.50	3378.15
	6/7/2004	Æ					3427.65	49.43	3378.22
	9/17/2004	1210					3427.65	49.20	3378.45
	11/30/2004	A.R.					3427.65	48.66	3378.99
	3/31/2005	1439					3427.65	47.98	3379.67
	5/23/2005	A.N.					3427.65	47.90	3379.75
MW048SA	8/1/2002	1115	82.00	86.00	4	2.34	3421.10	46.45	3374.65
		1000					3421.10	46.40	3374.7
	12/2/2002	1103					3421.10	46.26	3374.84
	1/30/2003	1115					3421.10	46.18	3374.92
	3/28/2003	1341					3421.10	46.15	3374.95
	5/19/2003	1321					3421.10	46.19	3374.91
	9/8/2003	1412					3421.1	46.44	3374.66
	12/2/2003	1103					3421.1	46.45	3374.65
	3/30/2004	1101					3421.1	46.62	3374.48
	6/7/2004	Æ					3421.1	46.48	3374.62
	9/16/2004	1221					3421.1	46.43	3374.67
	11/29/2004	NR.					3421.1	46.17	3374.93
	3/31/2005	1011					3421.1	45.67	3375.43
	5/23/2005	Z.					3421.1	45.52	3375.58
MW049SA	7/30/2002	1140	82.00	85.00	4	2.32	3422.46	49.31	3373.15
	9/3/2002	1005					3422.46	49.29	3373.17
	12/2/2002	1105					3422.46	49.18	3373.28

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	1/30/2003	1112					3422.46	49.13	3373.33
	3/28/2003	1345					3422.46	49.09	3373.37
	5/19/2003	1317					3422.46	49.08	3373.38
	9/8/2003	1409					3422.46	49.32	3373.14
	12/2/2003	1058					3422.46	49.32	3373.14
	3/30/2004	1058					3422.46	49.42	3373.04
	6/7/2004	NR					3422.46	48.57	3373.89
	9/16/2004	1224					3422.46	49.36	3373.1
	11/29/2004	N.					3422.46	49.16	3373.3
	3/31/2005	1009					3422.46	48.65	3373.81
	5/23/2005	NR					3422.46	48.59	3373.87
MW050SA	7/30/2002	1000	78.00	81.00	4	1.75	3419.31	46.30	3373.01
	9/3/2002	1030					3419.31	46.19	3373.12
	12/2/2002	1133					3419.31	45.93	3373.38
	1/30/2003	1030					3419.31	45.92	3373.39
	3/28/2003	1430					3419.31	45.92	3373.39
	5/19/2003	1214					3419.31	46.01	3373.3
	9/8/2003	1335					3419.31	46.13	3373.18
	12/2/2003	1050					3419.31	46.05	3373.26
	3/30/2004	9001					3419.31	46.15	3373.16
	6/7/2004	NR					3419.31	46.18	3373.13
	9/14/2004	1402					3419.31	46.18	3373.13
	11/29/2004	Z.					3419.31	45.80	3373.51
	3/31/2005	954					3419.31	45.34	3373.97
	5/23/2005	NR					3419.31	45.26	3374.05
MW051SA	10/10/2002	925	65.00	00.99	4	2.00	3415.42	44.50	3370.92
	12/2/2002	1058					3415,42	44.43	3370.99
	1/30/2003	1055					3415.42	44.38	3371.04
	3/28/2003	1411					3415.42	44.39	3371.03
	5/19/2003	1308					3415.42	44.40	3371.02
	9/8/2003	1341					3415.42	44.55	3370.87
	12/2/2003	1123					3415.42	44.53	3370.89
	3/30/2004	1053					3415.42	44.59	3370.83
	6/7/2004	NR					3415.42	44.53	3370.89
	9/14/2004	1427					3415.42	44.58	3370.84
	3/31/2005	1017					3415.42	44.04	3371.38

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	5/23/2005	NR					3415.42	43.95	3371.47
MW052SA	10/10/2002	1110	65.00	66.50	4	2.31	3415.23	45.45	3369.78
	12/2/2002	1053					3415.23	45.39	3369.84
	1/30/2003	1105					3415.23	45.35	3369.88
	3/28/2003	1406					3415.23	45.36	3369.87
	5/19/2003	1305					3415.23	45.28	3369.95
	9/8/2003	1407					3415.23	45.51	3369.72
	12/2/2003	1132					3415.23	45.52	3369.71
	3/30/2004	1048					3415.23	45.58	3369.65
	6/7/2004	NR					3415.23	45.85	3369.38
	9/14/2004	1436					3415.23	45.58	3369.65
	11/29/2004	NR					3415.23	45.43	3369.8
	3/31/2005	1021					3415.23	45.05	3370.18
	5/23/2005	NR					3415.23	45.02	3370.21
MW053SA	9/18/2002	945	65.00	68.29	4	2.48	3413.86	42.93	3370.93
	12/2/2002	NR					3413.86	42.80	3371.06
	1/30/2003	1123					3413.86	42.68	3371.18
	3/28/2003	1331					3413.86	42.68	3371.18
	5/19/2003	1425					3413.86	42.65	3371.21
	9/8/2003	1440					3413.86	43.09	3370.77
	12/2/2003	1306					3413.86	43.12	3370,74
	3/30/2004	1300					3413.86	43.15	3370.71
	6/7/2004	NR					3413.86	43.04	3370.82
	9/16/2004	1155					3413.86	43.09	3370.77
	11/29/2004	NR					3413.86	42.74	3371.12
	3/31/2005	1056					3413.86	42.13	3371.73
	5/23/2005	NR		į			3413.86	41.97	3371.89
MW054SA	1/30/2003	1100	90.09	60.10	4	2.31	3411.38	45.21	3366.17
	3/28/2003	1400					3411.38	45.09	3366.29
	\$/19/2003	1258					3411.38	45.09	3366.29
	9/8/2003	1401					3411.38	45.43	3365.95
	12/2/2003	1135					3411.38	45.41	3365.97
	3/30/2004	1044					3411.38	45.46	3365.92
	6/7/2004	NR				-	3411.38	45.37	3366.01
	9/14/2004	1443					3411.38	42.48	3368.9
	11/29/2004	NR					3411.38	45.26	3366.12

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\$600 \$320 4 2.35 3411.38 \$600 \$320 4 2.35 3407.43 \$600 \$520 4 2.35 3407.43 \$600 \$600 3407.43 \$600 \$600 3407.43 \$600 \$600 3407.43 \$600 \$600 3407.1 \$600 3407.1 \$600 3	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
\$5000 \$520	2	1026					3411.38	44.90	3366.48
\$0.00 \$3.20 4 2.35 3407.43 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.74 <td>N.K.</td> <td>~</td> <td></td> <td></td> <td></td> <td>•</td> <td>3411.38</td> <td>44.81</td> <td>3366.57</td>	N.K.	~				•	3411.38	44.81	3366.57
3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74	NR	~	50.00	53.20	4	2.35	3407.43	41.20	3366.23
3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	NR	π R		-			3407.43	41.00	3366.43
3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	13	1343					3407.43	41.15	3366.28
340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340771 3	=	1159					3407.43	41.00	3366.43
340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340743 340771 341071 341774 341774	13	1310					3407.43	41.13	3366.3
3407.43 3407.43 3407.43 3407.43 35200 55200 55200 4 2530 3410.71 3417.74	41	41.09					3407.43	41.09	3366.34
3407.43 3407.43 32.00 \$55.02 4 2.30 340.71 3410.71	6	938				٠	3407.43	41.12	3366.31
3407.43 3407.43 32.00 52.00 55.02 4 2.30 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74	2	NR '					3407.43	41.02	3366.41
3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.43 3407.41 3407.41 3407.11 3407	11	1159					3407.43	41.18	3366.25
3407.43 3407.43 3407.43 3407.43 3407.43 3410.71 3417.74 3417	2	NR					3407.43	41.08	3366.35
\$2.00 \$5.02 4 2.30 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.71 \$3410.74 \$3410.74 \$3417.74 \$3410.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74 \$3417.74	6	929					3407.43	40.90	3366.53
\$2,00 \$5,02 4 \$2,30 \$3410,71 \$3410,71 \$3410,71 \$3410,71 \$410,71 \$3410,71 \$3410,71 \$410,71 \$3410,71 \$3410,71 \$410,71 \$3410,71 \$3410,71 \$410,71 \$3410,71 \$3410,71 \$410,72 \$341,72 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,72 \$3417,74 \$3417,74 \$410,74 \$3417,74 \$3417,74	Z	NR					3407.43	40.82	3366.61
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	Z	NR	52.00	55.02	4	2.30	3410.71	46.32	3364.39
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417	10	1015					3410.71	46.21	3364.5
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	1451	51					3410.71	46.20	3364.51
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	1154	54					3410.71	46.18	3364.53
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	13	1313					3410.71	46.31	3364.4
3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	6	959	·				3410.71	46.33	3364.38
3410.71 3410.71 3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	6	942					3410.71	46.40	3364.31
3410.71 3410.71 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74		NR			:		3410.71	46.31	3364.4
3410.71 3410.71 70.00 71.20 4 2.36 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	17	1206					3410.71	46.38	3364.33
70.00 71.20 4 2.36 3410.71 3410.71 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	_	NR NR					3410.71	46.31	3364.4
70.00 71.20 4 2.36 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	6	932					3410.71	46.01	3364.7
70.00 71.20 4 2.36 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74 3417.74		NR.					3410.71	45.93	3364.78
3417.74 3417.74 3417.74 3417.74 3417.74 3417.74		1020	70.00	71.20	4	2.36	3417.74	46.33	3371.41
3417.74 3417.74 3417.74 3417.74 3417.74 3417.74	17	1459					3417.74	46.45	3371.29
3417.74 3417.74 3417.74 3417.74 3417.74		1150					3417.74	46.59	3371.15
3417.74 3417.74 3417.74 3417.74	EI	1318					3417.74	46.72	3371.02
3417.74 3417.74 3417.74 3417.74	10	1004					3417.74	46.65	3371.09
3417.74 3417.74 3417.74	10	1000					3417.74	46.70	3371.04
3417.74		NR					3417.74	46.75	3370.99
3417.74	13	1353					3417.74	46.58	3371.16
341774		N.					3417.74	46.00	3371.74
1,1,1	6	938					3417.74	45.77	3371.97

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	5/23/2005	NR					3417.74	45.73	3372.01
MW058	1/31/2003	1120	114.00	111.85	4	2.12	3437.13	58.49	3378.64
	3/27/2003	1428					3437.13	58.49	3378.64
	5/19/2003	1210					3437.13	58.52	3378.61
,	9/9/2003	1013					3437.13	58.57	3378.56
	12/2/2003	1359					3437.13	58.44	3378.69
	3/30/2004	837					3437.13	58.51	3378.62
	6/7/2004	NR					3437.13	58.50	3378.63
	9/16/2004	1548					3437.13	58.42	3378.71
	11/29/2004	NR					3437.13	58.43	3378.7
	3/31/2005	1145					3437.13	59.08	3378.05
	5/23/2005	NR					3437.13	57.84	3379.29
MW059	1/31/2003	1125	113.00	107.09	4	2.19	3442.22	63.28	3378.94
	3/28/2003	1105					3442.22	63.23	3378.99
	5/19/2003	1430					3442.22	63.15	3379.07
	9/9/2003	1106					3442.22	63.15	3379.07
	12/2/2003	1538					3442.22	63.05	3379.17
	3/30/2004	851					3442.22	63.06	3379.16
	6/7/2004	NR					3442.22	63.00	3379.22
	9/17/2004	938					3442.22	63.03	3379.19
	11/30/2004	NR					3442.22	62.96	3379.26
	3/31/2005	1549					3442.22	62.75	3379.47
	5/23/2005	NR					3442.22	62.51	3379.71
090MW	1/8/2003	Ŗ	100.00	102.60	4	2.56	3437.70	58.62	3379.08
	1/30/2003	NR					3437.70	58.38	3379.32
	3/28/2003	1046					3437.70	58.45	3379.25
	5/19/2003	1620					3437.70	58.39	3379.31
	9/9/2003	1002					3437.7	58.34	3379.36
	12/2/2003	1421					3437.7	58.15	3379.55
	3/30/2004	927					3437.7	58.20	3379.5
	6/7/2004	NR.					3437.7	58.19	3379.51
	9/16/2004	1535					3437.7	58.12	3379.58
	11/29/2004	NR.					3437.7	58.11	3379.59
	3/31/2005	1252.					3437.7	57.79	3379.91
	5/23/2005	N.					3437.7	57.63	3380.07
MW061	1/8/2003	AR.	108.50	111.75	4	2.19	3439.86	60.23	3379.63

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	3/27/2003	1516					3439.86	60.20	3379.66
	5/19/2003	1230					3439.86	60.26	3379.6
	9/9/2003	930					3439.86	60.18	3379.68
	12/2/2003	1426					3439.86	60.00	3379.86
	3/30/2004	944					3439.86	60.12	3379.74
	6/7/2004	Ä					3439.86	90.09	3379.8
	9/16/2004	1518					3439.86	59.93	3379.93
	11/29/2004	N.					3439.86	59.84	3380.02
	3/31/2005	1300					3439.86	59.52	3380.34
	5/23/2005	ž					3439.86	59.32	3380.54
MW062A	1/31/2003	1040	108.00	111.00	4	1.65	3434.19	57.13	3377.06
	3/27/2003	1358					3434.19	57.16	3377.03
	5/19/2003	1140					3434.19	57.19	3377
	9/9/2003	1026					3434.19	57.29	3376.9
	12/2/2003	1338					3434.19	57.17	3377.02
	3/30/2004	807					3434.19	57.35	3376.84
	6/7/2004	N.					3434.19	57.40	3376.79
	9/16/2004	1631					3434.19	57.18	3377.01
	11/29/2004	N.					3434.19	57.08	3377.11
	3/31/2005	1119					3434.19	56.64	3377.55
	5/23/2005	N.					3434.19	56.51	3377.68
MW063A	1/31/2003	1036	106.00	108.50	4	1.96	3435.22	57.89	3377.33
	3/27/2003	1401					3435.22	57.80	3377.42
	5/19/2003	1130					3435.22	57.82	3377.4
	9/9/2003	1023					3435.22	57.89	3377.33
	12/2/2003	1342					3435.22	57.78	3377.44
	3/30/2004	813			-		3435.22	57.97	3377.25
	6/7/2004	Æ					3435.22	57.93	3377.29
	9/16/2004	1608					3435.22	57.81	3377.41
	11/29/2004	Ä					3435.22	57.78	3377.44
	3/31/2005	1125					3435.22	54.53	3380.69
	5/23/2005	N. N.				.	3435.22	57.20	3378.02
MW064SA	3/27/2003	1337	75.00	17.71	4	2.21	3405.15	54.20	3350.95
	5/19/2003	1254					3405.15	54.22	3350.93
	9/8/2003	1258					3405.15	54.27	3350.88
	12/2/2003	952					3405.15	54.35	3350.8

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Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	3/30/2004		<u> </u>				3405.15	54.39	3350.76
	6/7/2004	N.					3405.15	54.40	3350.75
	9/14/2004	1135					3405.15	54.36	3350.79
	11/29/2004	NR					3405.15	54.24	3350.91
	3/24/2005	1315					3405.15	54.91	3350.24
	5/23/2005	1530					3405.15	53.69	3351.46
MW065SA	3/27/2003	1330	80.00	82.50	4	2.04	3402.96	54.21	3348.75
	5/19/2003	1209					3402.96	54.23	3348.73
	9/8/2003	1306					3402.96	54.38	3348.58
	12/2/2003	949					3402.96	54.51	3348.45
	3/30/2004	1612					3402.96	54.61	3348.35
	6/7/2004	N.					3402.96	54.32	3348.64
	9/14/2004	1112					3402.96	54.45	3348.51
	11/30/2004	χ.					3402.96	54.31	3348.65
	3/31/2005	922					3402.96	53.92	3349.04
	5/23/2005	N.					3402.96	53.66	3349.3
MW066SA	3/28/2003	1355	90.99	68.95	4	2.56	3404.03	52.45	3351.58
	5/19/2003	1244					3404.03	52.24	3351.79
	9/8/2003	1346					3404.03	52.71	3351.32
	12/2/2003	1147					3404.03	53.00	3351.03
	3/30/2004	923					3404.03	53.16	3350.87
	6/7/2004	NR					3404.03	52.88	3351.15
	9/14/2004	1155					3404.03	55.30	3348.73
	11/29/2004	N.					3404.03	53.24	3350.79
	3/29/2005	928					3404.03	52.71	3351.32
	5/23/2005	NR					3404.03	52.36	3351.67
MW067SA	3/28/2003	1353	83.00	84.40	4	2.50	3409.16	47.64	3361.52
	5/19/2003	1246					3409.16	47.61	3361.55
	9/8/2003	1356					3409.16	48.19	3360.97
	12/2/2003	1154					3409.16	48.25	3360.91
	3/30/2004	1033					3409.16	48.34	3360.82
	6/7/2004	NR					3409.16	48.10	3361.06
	9/14/2004	1452					3409.16	48.26	3360.9
MW068	3/27/2003	1459	110.00	112.72	. 4	2.25	3448.08	67.61	3380.47
	5/19/2003	1235					3448.08	68.70	3379.38
	1						2440 00	68.67	3370 41

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9/9/2003

Station ID	Collection Date	Collection Time	Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	lop of Casing Elevation (Feet AMSL)	Measured Depth to Groundwater Elevation Water (Feet BTOC) (Feet AMSL)	(Feet AMSL)
	12/2/2003	1417					3448.08	68.51	3379.57
	3/30/2004	933					3448.08	68.52	3379.56
	6/7/2004	N. N.					3448.08	68.45	3379.63
	9/16/2004	1513					3448.18	68.30	3379.88
	11/29/2004	N.					3448.08	68.19	3379.89
	3/31/2005	1247					3448.08	67.90	3380.18
	5/23/2005	ĸ					3448.08	67.78	3380.3
690MM	3/27/2003	1507	110.00	112.81	4	2.37	3444.07	64.89	3379.18
	5/19/2003	1225					3444.07	64.83	3379.24
	9/9/2003	948					3444.07	64.79	3379.28
	12/2/2003	1412					3444.07	64.63	3379.44
	3/30/2004	920					3444.07	64.65	3379.42
	6/7/2004	NR					3444.07	64.63	3379.44
	9/16/2004	1524					3444.07	64.60	3379.47
	11/29/2004	NR					3444.07	64.51	3379.56
	3/31/2005	1159					3444.07	64.24	3379.83
	5/23/2005	NR					3444.07	64.08	3379.99
MW070	3/27/2003	1406	93.00	95.15	4	2.15	3439.68	61.00	3378.68
	5/19/2003	1150					3439.68	61.03	3378.65
	9/9/2003	1018					3439.68	61:02	3378.66
	12/2/2003	1351					3439.68	60.93	3378.75
	3/30/2004	821					3439.68	61.02	3378.66
	6/7/2004	NR					3439.68	60.94	3378.74
	9/16/2004	1558					3439.68	60.90	3378.78
	11/29/2004	NR.					3439.68	16:09	3378.77
	3/31/2005	1135					3439.68	60.72	3378.96
	5/23/2005	NR					3439.68	60.52	3379.16
MW070A	3/27/2003	1411	127.00	127.11	4	2.19	3439.67	.80.19	3378.59
	5/19/2003	1200					3439.67	61.06	3378.61
	9/9/2003	1020					3439.67	61.05	3378.62
	12/2/2003	1353					3439.67	96.09	3378.71
	3/30/2004	825					3439.67	96.09	3378.71
	6/7/2004	N.					3439.67	86.09	3378.69
	9/16/2004	1600					3439.67	86.09	3378.69
	11/30/2004	NR					3439.67	88.09	3378.79
	3/21/2005	1137					2430.67	89 09	00 000

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	┝─┤						3439.67	60.49	3379.18
MW071SA	5/2/2003	1435	89.00	92.00	4	2.16	3401.01	34.79	3366.22
	5/19/2003	1117					3401.01	52.61	3348.4
	9/8/2003	1303	i				3401.01	52.83	3348.18
	12/2/2003	945					3401.01	52.98	3348.03
	3/30/2004	1608					3401.01	53.03	3347.98
	6/7/2004	NR					3401.01	52.78	3348.23
	9/14/2004	1105					3401.01	53.00	3348.01
	11/29/2004	NR		·			3401,01	53.71	3347.3
	3/31/2005	616					3401.01	57.12	3343.89
	5/23/2005	NR					3401.01	51.90	3349.11
MW072SA	5/1/2003	1030	91.00	93.55	4	1.96	3401.34	53.46	3347.88
	5/19/2003	1234			/		3401.34	52.96	3348.38
	9/8/2003	1351					3401.34	53.24	3348.1
-	12/2/2003	1143					3401.34	53.35	3347.99
	3/30/2004	927					3401.34	53.49	3347.85
	6/7/2004	NR.					3401.34	53.18	3348.16
	9/14/2004	1146					3401.34	53.39	3347.95
	11/29/2004	NR					3401.34	53.06	3348.28
	3/29/2005	933					3401.34	52.39	3348.95
	5/23/2005	NR.					3401.34	52.14	3349.2
MW073SA	5/3/2003	1420	00.99	69.00	4	2.15	3403.26	50.25	3353.01
	5/19/2003	1240					3403.26	50.21	3353.05
	9/8/2003	1349					3403.26	50.61	3352.65
	12/2/2003	1149					3403.26	50.74	3352.52
	3/30/2004	930					3403.26	50.86	3352.4
	6/7/2004	NR					3403.26	50.58	3352.68
	9/14/2004	1151					3403.26	50.76	3352.5
	11/29/2004	NR					3403.26	50.40	3352.86
	3/31/2005	925					3403.26	49.65	3353.61
	5/23/2005	NR.					3403.26	49.38	3353.88
MW074SA	2/18/2004	1325	68.00	66.44	4	2	3409.97	50.22	3359.75
	3/30/2004	946					3409,97	50.24	3359.73
	6/7/2004	NR.					3409.97	50.15	3359.82
	9/14/2004	1342							
_		21.01					3409.97	50.22	3359.75

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Table 2	roundwater Elevations	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	
	Gro	ChevronTexa	Eunice,	

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	(Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
	3/31/005	935					3409.97	49.79	3360.18
	5/23/2005	K					3409.97	49.69	3360.28
MW075SA	2/18/2004	1505	67.00	65.65	4	2.05	3404.21	54.19	3350.02
	3/30/2004	1559					3404.21	54.21	3350
	6/7/2004	Z.					3404.21	54.11	3350.1
	9/14/2004	1118					3404.21	54.08	3350.13
	11/29/2004	Z.					3404.21	54.04	3350.17
	3/31/2005	907					3404.21	53.69	3350.52
	5/23/2005	N.				-	3404.21	53.49	3350.72
MW076SA	2/18/2004	1459	100.00	91.74	4	1.95	3404.13	55.72	3348.41
	3/29/2004	1552					3404.13	55.77	3348.36
	6/7/2004	Æ					3404.13	55.62	3348.51
	9/14/2004	1123					3404.13	55.64	3348.49
	11/29/2004	N.					3404.13	55.54	3348.59
	3/31/2005	910					3404.13	55.17	3348.96
	5/23/2005	NR					3404.13	54.94	3349.19
MW077SA	2/18/2004	1453	95.00	94.27	4	2.44	3401.71	53.71	3348
	3/30/2004	1547					3401.71	53.72	3347.99
	6/7/2004	N.					3401.71	53.49	3348:22
	9/14/2004	1107					3401.71	53.56	3348.15
	3/31/2005	902					3401.71	52.99	3348.72
	5/23/2005	Æ					3401:71	52.77	3348.94
MW078SA	3/30/2004	1120	68.00	70.41	4	2.46	3411.12	44.63	3366.49
	6/7/2004	N.		_			3411.12	45.45	3365.67
	9/16/2004	1202					3411.12	45.72	3365.4
	11/29/2004	Æ					3411.12	45.18	3365.94
	3/31/2005	6501					3411.12	44.30	3366.82
	5/23/2005	NR					3411.12	44.08	3367.04
MW079SA	3/30/2004	1028	70.00	71.9	4	2.46	3408.8	48.78	3360.02
	6/7/2004	A.N.					3408.8	46.61	3362.19
	9/14/2004	1456					3408.8	48.73	3360.07
	11/29/2004	NR				-	3408.8	46.27	3362.53
	5/23/2005	1637					3408.8	47.09	3361.71
MW080SA		1030	74.00	74	4	2.46	3408.92	48.82	3360.1
	6/7/2004	N.R.					3408.92	48.70	3360.22
							3408 97	19.81	116011

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	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater F (Feet AM)
		11/29/2004	Æ					3408.92	48.36	3360.56
		3/16/2005	1346					3408.92	47.56	3361.36
		5/23/2005	1634					3408.92	48.18	3360.7
	MW081SA	3/30/2004	1032	70.00	74.7	4	2.47	3408.28	48.50	3359.78
		6/7/2004	NR					3408.28	46.80	3361.48
		9/14/2004	1458					3408.28	48.43	3359.85
		11/29/2004	NR					3408.28	47.99	3360.29
		3/16/2005	1506					3408.28	47.17	3361.11
		5/23/2005	1631	-		·		3408.28	47.12	3361.16
	MW082SA	3/30/2004	850	77.00	80.29	4	2.51	3406.25	55.46	3350.79
		6/7/2004	NR		:			3406.25	55.35	3350.9
		9/14/2004	1141					3406.25	55.22	3351.03
		11/29/2004	NR					3406.25	55.19	3351.06
		3/1/2005	N.					3406.25	54.81	3351.44
		5/23/2005	1539					3406.25	54.66	3351.59
	MW083SA	3/30/2004	848	77.00	80.29	4	2.47	3406.11	55.33	3350.78
		6/7/2004	NR					3406.11	55.22	3350.89
		9/14/2004	1139					3406.11	54.18	3351.93
		11/29/2004	NR					3406.11	55.19	3350.92
		3/1/2005	1014					3406.11	54.85	3351.20
		5/23/2005	1538					3406.11	54.58	3351.53
	MW084SA	3/30/2004	831	77.00	80.14	4	2.58	3405.98	54.83	3351.15
		6/7/2004	NR					3405.98	54.78	3351.2
		9/14/2004	1129					3405.98	54.70	3351.28
		11/29/2004	NR.					3405.98	54.61	3351.37
		3/24/2005	1447					3405.98	54.27	3351.71
		5/23/2005	1527					3405.98	54.09	3351.89
	MW085SA	3/30/2004	837	78.00	80.3	4	2.48	3405.98	55.24	3350.74
		6/7/2004	N. N.					3405.98	55.08	3350.9
		9/14/2004	1137					3405.98	55.08	3350.9
		11/29/2004	Z.					3405.98	54.98	3351
		3/24/2005	1046					3405.98	54.66	3351.32
		5/23/2005	1535					3405.98	54.44	3351.54
	MW086SA	9/14/2004	808	90.00		4	2.98	3401.86	53.74	3348.12
		3/31/2005	917	94.00		4		3401.86	53.08	3348.78
		5/23/2005	NR					3401.86	52.83	3349.03

ARCADIS					G ChevronTe	Groundwater Elevations Chevron Texaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	ations Vorth) Gas Plan ew Mexico	_		
Station ID	n ID Collection Date	-	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Ele (Feet AMSI
MW087SA	├	-	NR	115.00		4	2.85	3430.75	50.05	3380.7
	3/31/2005	305	1453	115.00		4		3430.75	50.85	3379.9
	\$/23/2005	305	NR					3430.75	50.74	3380.01
MW088M	38M 9/24/2004	304	NR	90.00		4	2.84	3430.63	50.65	3379.98
	3/31/2005	500	1612	92.00		4		3430.63	50.61	3380.02
	5/23/2005	500	NR					3430.63	50.25	3380.38
RW001	101 11/16/1999	666	NR	111.00	106.50	9	2.49	3428.32	50.41	3377.91
	5/15/2001	100	NR					3428.32	49.65	3378.67
	8/23/2001	100	1325					3428.32	50.04	3378.28
	1/21/2002	200	1243					3428.32	49.85	3378.47
	4/4/2002	200	1140					3428.32	49.97	3378.35
	9/3/2002	200	1110					3428.32	49.88	3378.44
	12/2/2002	002	1359					3428.32	49.53	3378.79
	1/31/2003	003	1026					3428.32	49.63	3378.69
	3/28/2003	003	957					3428.32	49.62	3378.70
	5/19/2003	003	1615					3428.32	49.51	3378.81
	9/9/2003	903	1154					3428.32	49.66	3378.66
	12/3/2003	903	1007					3428.32	49.71	3378.61
	3/30/2004	904	1333					3428.32	49.81	3378.51
	6/7/2004	20	Æ					3428.32	49.75	3378.57
	9/17/2004	904	1159					3428.32	49.34	3378.98
	11/29/2004	400	NR.					3428.32	48.80	3379.52
	3/31/2005	205	1436					3428.32	48.43	3379.89
	5/23/2005	205	N.					3428.32	50.25	3378.07
RW002	02 1/21/2002	202	1145	68.00	72.07	6	2.18	3431.66	52.98	3378.68
	4/4/2002	02	1045					3431.66	53.05	3378.61
	9/3/2002	02	1150					3431.66	52.95	3378.71
	12/2/2002	202	1435					3431.66	52.81	3378.85
	1/30/2003	003	1415					3431.66	52.75	3378,91
	3/28/2003	303	1117					3431.66	52.76	3378.90
	5/19/2003	303	1520					3431.66	52.73	3378.93
	9/9/2003	03	1213					3431.66	52.72	3378.94
	12/3/2003	303	1031					3431.66	52.66	3379.00
	3/30/2004	204	1404					3431.66	52.77	3378.89
	6/7/2004	90	NR.					3431.66	52.77	3378.89
	11/29/2004	004	N.					3431.66	52.34	3379.32

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ARCADIS	10				G ChevronTer Eunic	raviez Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	ations Vorth) Gas Plant ew Mexico			
[_ <u>o</u>	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater El
'L		3/31/2005	1603					3431.66	51.05	3380.61
		5/23/2005	NR					3431.66	51.77	3379.89
<u> </u>	RW003	1/21/2002	1256	65.00	67.79	9	2.31	3429.82	50.75	3379.07
		4/4/2002	1225					3429.82	50.78	3379.04
		9/3/2002	1240					3429.82	50.75	3379.07
L		12/2/2002	1315					3429.82	50.56	3379.26
		1/30/2003	1326					3429.82	50.45	3379.37
		3/28/2003	1056					3429.82	50.55	3379.27
		5/19/2003	1505					3429.82	50.49	3379.33
<u> </u>		9/9/2003	1223					3429.82	50.40	3379.42
<u></u>		12/3/2003	1043					3429.82	50.34	3379.48
j		3/30/2004	1419					3429.82	50.53	3379.29
L		6/7/2004	NR					3429.82	50.43	3379.39
		11/30/2004	NR					3429.82	50.13	3379.69
		3/31/2005	1614					3429.82	49.90	3379.92
		5/23/2005	NR					3429.82	49.55	3380.27
	RW004A	1/21/2002	1135	115.00	118.76	, 9·	2.36	3430.11	\$1.51	3378.60
		4/4/2002	1110					3430.11	51.59	3378.52
		9/3/2002	1115					3430.11	51.45	3378.66
<u></u>		12/2/2002	1451					3430.11	51.10	3379.01
		1/31/2003	920					3430.11	51.14	3378.97
		3/28/2003	950	l				3430.11	51.16	3378.95
		5/19/2003	1605					3430.11	51.23	3378.88
		9/9/2003	1206					3430.11	46.36	3383.75
		12/3/2003	1020					3430.11	51.53	3378.58
		3/30/2004	1351					3430.74	52.34	3378.40
		6/7/2004	NR					3430.74	51.61	3379.13
]		11/30/2004	NR					3430.74	51.56	3379.18
		3/31/2005	1501					3430.74	51.97	3378.77
		\$/23/2005	NR.					3430.74	52.13	3378.61
_1	EPWWI	12/18/1997	NR.	100.00	86.66	9	1.13	3429.95	73.12	3356.83
l		4/22/1997	NR					3429.95	66.46	3363.49
		11/16/1999	N.					3429.95	65.20	3364.75
	1	5/15/2001	N.					3429.95	52.27	3377.68
		8/23/2001	1350					3429.95	52.86	3377.09
		1/21/2002	1542					3429.95	52.67	3377.28

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Tane	Groundwater Elevations	Chevron Texaco Eunice #2 (North) Gas Plant	Eunice, Lea County, New Mexico	

Station ID	Collection Date	Collection Time	Feet BGL	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
	4/4/2002	1010					3429.95	93.34	3336.61
	9/3/2002	1140					3429.95	50.85	3379.10
	12/2/2002	1458					3429.95	51.59	3378.36
	1/31/2003	927					3429.95	52.20	3377.75
	3/28/2003	941					3429.95	52.58	3377.37
	5/19/2003	1628					3429.95	52.26	3377.69
	9/9/2003	1136					3429.95	94.08	3335.87
	12/3/2003	918					3429.95	94.07	3335.88
	3/30/2004	Æ					3429.95	86.62	3343.33
	6/7/2004	A.R.					3429.95	77.45	3352.50
	9/17/2004	1006					3429.95	52.22	3377.73
	11/30/2004	Æ					3429.95	57.80	3372.15
	3/31/2005	1514					3429.95	51.39	3378.56
	\$/23/2005	Æ					3429.95	51.16	3378.79
LordWW	12/18/1997	NR	93.00	68.75	9	0.53	3419.97	44.00	3375.97
	11/16/1999	NR					3419.97	42.67	3377.30
	1002/1/9	1045	'V				3419.97	41.90	3378.07
	2/6/2002	1330					3419.97	42.01	3377.96
	6/3/2002	910					3419.97	41.88	3378.09
	12/9/2002	NR					3419.97	41.88	3378.09
	6/5/2003	1030					3419.97	41.95	3378.02
	1/22/2004	1240					3419.97	42.25	3377.72
	3/30/2004	1530					3419.97	42.34	3377.63
	6/7/2004	NR					3419.97	42.12	3377.85
	9/17/2004	1420					3419.97	41.93	3378.04
	5/23/2005	NR					3419.97	40.93	3379.04
RowlandWW	12/18/1997	NR	:	66.00	9	0.46	3419.47	43.12	3376.35
	11/16/1999	NR					3419.47	41.58	3377.89
	5/15/2001	NR					3419.47	41.06	3378.41
	8/23/2001	1150					3419.47	40.92	3378.55
	1/21/2002	1537					3419.47	41.09	3378.38
	4/4/2002	1255					3419.47	41.32	3378.15
	9/3/2002	1235					3419.47	40.90	3378.57
	12/2/2002	1249					3419.47	40.80	3378.67
	1/31/2003	1057					3419.47	40.79	3378.68

	Station ID	Collection Date	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Water (Feet BTOC)	Groundwater Elevation (Feet AMSL)
		6/3/2003	NR.	<u> </u>				3419.47	40.92	3378.55
		9/9/2003	1314					3419.47	41.03	3378.44
		12/2/2003	1256					3419.47	41.14	3378.33
		3/30/2004	NR					3419.47	41.35	3378.12
		6/7/2004	NR					3419.47	41.17	3378.30
		3/31/2005	1416					3419.47	39.62	33.79.85
		5/23/2005	NR					3419.47	39.81	3379.66
	WoodellWW	5/15/2001	N.	120.00	86.00 to TOP	4	1.03	3423.77	49.63	3374.14
		8/23/2001	1500					3423.77	49.97	3373.80
		4/5/2002	1250					3423.77	49.52	3374.25
		9/3/2002	1300					3423.77	54.07 (P)	3369.7
		12/2/2002	1241					3423.77	49.06	3374.71
-		1/30/2003	1025					3423.77	49.14	3374.63
		3/28/2003	1520					3423.77	62.24 (P)	3361.53
			NR					3423.77	53.76 (P)	3370.01
		6/5/2003	NR					3423.77	53.76 (P)	3370.01
		9/9/2003	1339					3423.77	53.65 (P)	3370.12
		12/2/2003	1009					3423.77	49.07	3374.70
		3/30/2004	1540					3423.77	49.50	3374.27
		6/7/2004	NR.					3423.77	54.24	3369.53
		11/29/2004	NR					3423.77	48.89	3374.88
		5/23/2005	NR					3423.77	52.80	3370.97
	GOPWW2	Ř	NR.	99.00	87.58	8	1.37	3396.97	49.02	3347.95
		12/4/2002	1540					3396.97	49.54	3347.43
		1/31/2003	1103					3396.97	49.42	3347.55
		3/28/2003	1300					3396.97	49.14	3347.83
		5/19/2003	1126					3396.97	49.21	3347.76
		9/9/2003	1326					3396.97	49.37	3347.6
		12/2/2003	938					3396.97	49.71	3347.26
		3/30/2004	1602					3396.97	49.54	3347.43
1		6/7/2004	NR.					3396.97	49.31	3347.66
		9/14/2004	1055					3396.97	49.45	3347.52
J		11/29/2004	NR					3396.97	49.22	3347.75
		3/31/2005	915					3396.97	48.81	3348.16
t		5/23/2005	N. N.					3396.67	48.52	3348.15
	137001	C00C/1/8 ·		0000	00,00	•	300			

ARCADIS	SIQ				ChevronTe Euni	Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	ations vorth) Gas Plane ew Mexico	_		
	Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elev (Feet AMSL)
		12/2/2002						3431.91	52.90	3379.01
		1/30/2003	1411					3431.91	52.85	3379.06
		3/28/2003	1114					3431.91	52.94	3378.97
		5/19/2003	0151					3431.91	50.91	3381.00
		9/9/2003	1214					3431.91	52.62	3379.29
		12/3/2003	1033					3431.91	53.03	3378.88
		3/30/2004	1401					3431.91	52.98	3378.93
		6/7/2004	NR					3431.91	53.93	3377.98
		11/30/2004	NR					3431.91	53.04	3378.87
		3/31/2005	1605					3431.91	53.62	3378.29
		5/23/2005	NR					3431.91	52.58	3379.33
	1W002	9/3/2002	NR	90.00	92.95	4	2.55	3430.33	53.14	3377.19
		12/2/2002	1315					3430.33	50.99	3379.34
		1/30/2003	1318					3430.33	50.88	3379.45
		3/28/2003	1052					3430.33	50.99	3379.34
		5/19/2003	1525					3430.33	50.88	3379.45
		9/9/2003	1225					3430.33	51.46	3378.87
		12/3/2003	1045					3430.33	50.94	3379.39
		3/30/2004	1421	·				3431.00	51.62	3379.38
		6/7/2004	NR					3431.00	51.61	3379.39
		11/30/2004	NR					3431.00	51.34	3379.66
		3/31/2005	1616				- 1	3431.00	51.54	3379.46
		5/23/2005	NR					3431.00	51.36	3379.64
	IW003	12/16/2003	955	55.00	57.79	4	1.94	3406.68	45.47	3361.21
		2/18/2004	1528					3406.68	45.37	3361.31
		3/30/2004	1019					3406.68	45.37	3361.31
		6/3/2004	NR					3406.68	44.39	3362.29
		11/29/2004	NR					3406.68	45.95	3360.73
		3/17/2005	1006					3406.68	45.26	3361.42
		5/23/2005	1628					3406.68	45.10	3361.58
	1W004	12/16/2003	957	50.00	52.86	4	2.04	3406.31	45.04	3361.27
		2/18/2004	1524					3406.31	44.95	3361.36
		3/30/2004	1016					3406.31	44.97	3361.34
		6/7/2004	N.	-				3406.31	45.99	3360.32
		11/29/2004	NR					3406.31	45.31	3361
		3/17/2005	1110					3406.31	44.83	3361.48

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ARCADIS				G ChevronTe Eunic	Groundwater Elevations ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico	ations Vorth) Gas Plant ew Mexico			
Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Measured Depth to Groundwater Elevation Water (Feet BTOC) (Feet AMSL)
	+ -	1627					3406.31	44.43	3361.88
1W005	12/16/2003	1001	60.00	48.7	4	1.64	3405.36	45.85	3359.51
	2/18/2004	1435					3405.36	43.85	3361.51
	3/30/2004	920					3405.36	43.84	3361.52
	6/7/2004	Ä.					3405.36	45.02	3360.34
	11/29/2004	Ä					3405.36	44.52	3360.84
	3/21/2005	1415					3405.36	43.72	3361.64
	5/23/2005	1617					3405.36	42.71	3362.65
1W006	12/16/2003	1054	\$0.00	52.8	.4	2.12	3404.36	45.14	3359.22
	2/18/2004	1429					3404.36	43.24	3361.12
	3/30/2004	915					3404.36	43.24	3361.12
	6/7/2004	Ä					3404.36	44.18	3360.18
	11/29/2004	N. R.					3404.36	43.75	3360.61
	3/21/2005	1537					3404.36	42.86	3361.5
	5/23/2005	1615	-				3404.36	42.54	3361.82
200MI	12/16/2003	9001	46.00	48.85	4	1.74	3405.31	45.65	3359.66
	2/18/2004	1422					3405.31	44.09	3361.22
	3/30/2004	912					3405.31	44.31	3361
	6/7/2004	Ä					3405.31	43.54	3361.77
	11/29/2004	Ĕ					3405.31	44.62	3360.69
	3/22/2005	1150					3405.31	43.24	3362.07
	\$/23/2005	1612					3405.31	43.83	3361.48
1W008	12/16/2003	1008	90.05	52.18	4	2.03	3405.37	50.61	3354.76
	2/18/2004	1416					3405.37	50.13	3355.24
	3/30/2004	910					3405.37	51.08	3354.29
	6/7/2004	N.					3405.37	45.54	3359.83
	11/29/2004	Æ					3405.37	43.98	3361.39
	3/22/2005	1334					3405.37	43.55	3361.82
	5/23/2005	1609					3405.37	43.85	3361.52
600MI	12/16/2003	0101	55.00	47.53	4	2.08	3406.07	47.22	3358.85
	2/18/2004	1411					3406.07	47.40	3358.67
	3/30/2004	206					3406.07	47.49	3358.58
	6/7/2004	N. R.					3406.07	44.55	3361.52
	11/29/2004	ž					3406.07	44.74	3361.33
	3/22/2005	1519					3406.07	44.30	3361.77
	\$/23/2005	1607					3406.07	44.30	3361.77

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S				Chevron Le. Eunic	Chevron Lexaco Eunice #2 (North) Las Flant Eunice, Lea County, New Mexico	North) Gas Plant ew Mexico			
Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet AMSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevati (Feet AMSL)
IW010	12/16/2003	+	62.00	60.05	4	1.42	3405.82	52.88	3352.94
	2/18/2004	1406					3405.82	53.48	3352.34
	3/30/2004	904					3405.82	53.52	3352.3
	6/7/2004	NR					3405.82	54.65	3351.17
	11/29/2004	Æ					3405.82	54.45	3351.37
	3/22/2005	1537					3405.82	53.45	3352.37
	\$/23/2005	1603					3405.82	53.21	3352.61
IW011	12/16/2003	1013	73.00	65.55	4	1.94	3406.83	57.60	3349.23
	2/18/2004	1400					3406.83	57,59	3349.24
	3/30/2004	902					3406.83	57.64	3349.19
	6/7/2004	NR					3406.83	58.79	3348.04
	11/29/2004	ZZ.					3406.83	58.81	3348.02
	3/23/2005	1528					3406.83	-61'85	3348.64
	5/23/2005	1600					3406.83	57.51	3349.32
IW012	2/18/2004	1354	57.00	55.44	7	1.64	3405.92	54.99	3350.93
	3/30/2004	006					3405.92	Dry	Dry
	6/7/2004	N. N.					3405.92	53,24	3352.68
	11/29/2004	NR.					3405.92	56.03	3349.89
	3/24/2005	1447				,	3405.92	55.03	3350.89
-	5/23/2005	1558					3405.92	53.20	3352.72
IW013	2/18/2004	1347	00.99	63.81	4	2.12	3406.62	56.27	3350.35
	3/30/2004	857					3406.62	56.34	3350.28
	6/7/2004	Æ					3406.62	51.56	3355.06
	11/29/2004	NR					3406.62	57.36	3349.26
	3/24/2005	1046					3406.62	56.72	3349.9
	5/23/2005	1552		!			3406.62	56.81	3349.81
IW014	2/18/2004	1339	77.00	75.23	4	1.73	3405.48	54.55	3350.93
	3/30/2004	853					3405.48	54.59	3350.89
	6/7/2004	Æ					3405.48		3405.48
	11/29/2004	A.					3405.48	55.88	3349.6
	3/24/2005	926					3405.48	55.54	3349.94
	5/23/2005	1542					3405.48	55.02	3350.46
IW015	2/18/2004	1532	54.00	51.04	4	1.92	3406.05	45.43	3360.62
	3/30/2004	45.45					3406.05	45,45	3360.6
	6/7/2004	NR.					3406.05	45.91	3360.14
	11/29/2004	NR					3406.05	46.33	3359.72

G:AAPROJECTISECORITask 1-N. Eunice Report Folders/Reports/2005 Report Tables/Table 2 Groundwater Elevations.xls

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			Drilled Depth	Drilled Depth Measured Depth Well Diameter	Well Diameter		Top	Measured Depth to	Groundwater Elevation
Station ID	Station ID Collection Date Collection Time (Feet BGL)	Collection Time	(Feet BGL)	(Feet BTOC)	(Inches)	Stickup (Feet)	(Feet AMSL)	Water (Feet BTOC)	(Feet AMSL)
	3/16/2005	1600					3406.05	44.97	3361.08
	5/23/2005	NR							
IW016	2/18/2004	1538	74.00	71.48	4	1.98	3408.29	48.16	3360.13
	3/30/2004	1026					3408.29	48.19	3360.1
	6/3/2004	NR					3408.29	49.11	3359.18
	11/29/2004	N.					3408.29	49.26	3359.03
	4/18/2005	1435					3408.29	48.50	3359.79
	5/23/2005	1639					3408.29	48.51	3359.78
IW028	3/16/2005	8:00	107.00		4	2.57	3428.18	48.70	3379.48
	5/23/2005	NR					3428.18	49.09	3379.09
	6/16/2005	10:30					3428.18	49.10	3379.08

Notes:

EP - Eunice Plant

GOP - Gulf Oil Corp.

WW - Water Well

MW - Monitoring Well

RW - Recovery Well IW- Injection Well

No Suffix - Shallow/Middle Monitoring Well Completion (MW069) A - Deep Monitoring Well Completion (MW070A)

M-Middle Monitoring Well Completion (MW008M)

SA-Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)

* - Highlander calculated water levels using ground level elevation and TOC elevation to calculate stickups

(P) - Well was pumping during water collection BTOC - Below Top of Casing

BGL - Below Gound Level

AMSL - Above Mean Sea Level

NR - Not Reported SG - Specific Gravity

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Table 3
Groundwater Analytical Results
Organic Compounds (BTEX and TPH)
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L unless noted)

	Total TPH	0.38	0.22	0.44	ND	NΩ	ND	ND	6.5	ΩN	ΩN	ND	ND	0.63	0.4	ND	ND	ΩN	15	18	10.37	9.77	ND	NΩ	ND	0.19	1.92	2.61	9.3	11.5	0.31	0.3	ON.	0.852	0.488	0.72
TPH	Total Petroleum ydrocarbons GRO	QN					QN																											0.062	0.058	QN
	Total Petroleum Hydrocarbons DRO H	0.38	QN	QN	QN	QN	ON	QN	3.9	QN	QN	QN	QN	0.63	0.4	QN	DN	QN	ND	QN	0.37	0.47	QN	QN	DN	DN	1.5	2.1	2.3	3.5	0.31	0.3	QN	0.79	0.43	0.72
	Total BTEX	QN	0.051	0.12	QN	QN	ND	ΟN	0.88	ND	ND	ON	ND	QN	0.003	QN	QN	QN	ND	ND	3.09	2.51	ND	QN	QN	0.041	ON	0.052	2.59	2.39	0.005	0.005	ΩN	ON	0.002	ND
×	Ethylbenzene Xylenes (total)	QN	QN	0.023	ΩN	QN	DN	QN	QN	QN	QN	QN	QN	QN	QN	QN	ΩN	QN	QN	QN	6.53	0.43	QN	QN	QN	0.01	QN	0.049	0.23	0.18	ON	QN	QN	QN	ND	ND
BTEX	Ethylbenzene	QN	0.047	0.073	ND	ND	ND	ND	0.07	ND	ND	QN	ON	ΔN	0.003	QN	ND	ND	ND	ND	0.47	4.0	ND	ND	ND	0.011	ND	0.003	0.56	0.31	ND	ND	ND	ND	0.002	ND
	Toluene	QN	QN	0.004	ND	ND	ON	QN	QN	QN	ND	QN	ND	QN	QN	QN	QN	QN	QN	QN	1.6	1.3	QN	QN	ΩN	0.018	QN	윈	QN	QN	QN	DN	QN	ON	R	QN
	Benzene	QN	0.004	0.02	ΩN	QN	QN	ΩN	0.81	QN	αN	ΩN	QN	QN	QΝ	QN	ND	QN	QN	ND	0.49	0.38	DN	QN	ND	0.002	QN:	2	1.8	1.9	0.005	0.005	QN	ND	Q	QN
	Sample Collection Date	6/9/2005	1/12/2005	5/26/2005	1/4/2005	6/6/2005	1/6/2005	6/6/2005	6/30/2005	1/4/2005	6/6/2005	1/11/2005	5/31/2005	12/21/2004	5/27/2005	6/1/2005	12/28/2004	6/2/2005	7/18/2005	7/18/2005	1/13/2005	5/25/2005	1/5/2005	6/7/2005	12/21/2004	5/25/2005	1/12/2005	5/31/2005	1/12/2005	5/26/2005	1/12/2005	5/31/2005	1/6/2005	12/28/2004	5/27/2005	1/5/2005
	Station Name	EPWW1	MW001	MW001	MW002	MW002	MW003	MW004	MW005	600WM	600MM	MW009A	MW018A	MW021	MW021	MW023	MW024	MW024	MW024	MW024A	MW033	MW033	MW034	MW034	MVV035	MW035	MW036	MW036	MW037	MW037	MW038	MW038	MW039A	MW043	MW043	MW044

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ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico Organic Compounds (BTEX and TPH) Groundwater Analytical Results (mg/L unless noted) Table 3

	Total TPH	0.61	0.42	3.65	3.1	0.46	0.35	2	ΩN	Q.	9	ΩN	QN	Q	ΩN	QN	Ω	ΩN	ΩN	QN	QN	9	QN	Q	46	
TPH	Total Petroleum Hydrocarbons GRO	Q	0.1	0.25	0.4	QV	QV	QN	QN	QV	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	7	
	Total Petroleum Hydrocarbons DRO	0.61	0.32	3.4	2.7	0.46	0.35	QN .	QN	QN	QN	QN	QN	QN	QN	QN	Not sampled	QN	QN	QN	QN	QN	QN	QN	39	
	Total BTEX	2	0.007	QN	0.044	ΩN	0.003	QN	ND	QN	QN	ON	ND	ND	ND	ND	QN	ND	ND	0.412	QN	0.423	ΩN	Q.	ND	
×	Ethylbenzene Xylenes (total)	ΩN	QΝ	ΔN	0.027	ΩN	QN	ΩN	QN	ΩN	QN	QN	ΠN	QN	QN	QN	ΩN	QN	QN	0.25	QN	0.22	QN	Q	ND	
BTEX		QN	0.004	QN	600'0	QN	ΩN	ΩN	QN	QN	QN	GN	ΩN	ΩN	ΟN	ΩN	ΩN	ΩN	QN	6:000	QΝ	690'0	ΩN	QΝ	ND	
	Toluene	ΩN	ND	ND	0.003	ND	QN	ND	QN	ND	QN	ND	ND	ON	. QN	QN	QN	QN	ND	0.071	QN	0.084	ND	QN	ND	
	Benzene	ND	0.003	ND	0.005	ND	0.003	_ ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.052	ND	0.05	ON	N O	ΩN	
	Sample Collection Date	6/9/2005	5/27/2005	1/12/2005	5/26/2005	1/11/2005	5/24/2005	6/6/2005	6/7/2005	1/6/2005	6/6/2005	1/11/2005	6/1/2005	1/3/2005	6/8/2005	1/6/2005	12/7/2004	5/31/2005	6/1/2005	12/8/2004	6/1/2005	12/8/2004	10/7/2004	9/14/2004	9/13/2004	
	Station Name	MW044	MW045	MW046	MW046	MW046A	MW046A	MW047	MW048SA	MW049SA	MW049SA	MW051SA	MW057SA	MW058	MW058	MW071SA	MW074SA	MW074SA	MW076SA	MW077SA	MW077SA	MW078SA	MW086SA	MW087A	MW088M	

Notes: EP - Eunice Plant WW - Water Well

MW - Monitoring Well No Suffix - Shallow/Middle Monitoring Well Completion (MW069) A - Deep Monitoring Well Completion (MW070A)

M - Middle Monitoring Well Completion (MW008M)
SA - Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

Groundy ChevronTexaco

Table 4	Groundwater Analytical Results	Metals	ChevronTexaco Eunice #2 (North) Gas Plant	(mg/L unless noted)
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		γ	_	_	_	٠.,			_	_			Γ-	Т	Τ-	T-	1	т	т	т-	_	Т	г	Т-	_	\neg		- 1	$\overline{}$	_	_	Т-	7	_	1	_			7	-T	-	7	7	Т	т.,	_	7	7	т	Т	7	Т	Т	T	Т	\Box	т_
Iron, Dissolved	SN	SZ	SN	SN	114	96	110	SZ	72.7	73.6	78.2	92.8	102	96.1	79.5	813	6.1	112	98.7	170	1.8	43.6	77.4	96	96.6	150	<0.40	6	80.6	18/	48.0	808	115	917	79	74.3	82.5	72.1	74	88	50.4	1.18	109	99	47.2	29	67	148	196	0/1	24.4	V 99	68.7	85.6	99	129	222
Iron	SN	NS	NS	SN	115	97	116	164	77.8	50.4	74.1	86	106	93.8	82.5	84.6	9	118	101	172	82	64.9	9.98	93.8	96.8	153	<0.40	90.9	82	149	2 4 3	200	107	919	91.3	5	83.3	6/	8	303	53.9	433	109	112	54.1	71.2	69.2	170	226	163	34.2	50.5	64.1	101	56.9	95.3	203
Ferrous	SN	NS	SN	SN	110	94	140	130	89	36	68	6	8	3 =	o d	8 8	84	2 6	95	120	99	36	69	86	100	120	94	83	8	200	27	200	8 8	3,42	72	49	43	43	120	250	8	8	e e	120	47	75	51	170	290	140	88	S C	200	200	55	68	190
Sodium, Dissolved	NS	SN	SN	SN	SN	NS	SN	150	SN	SN	NS	SN	SN	SN	O V	201	S S	SN	Q Z	173	6.69	SN	36	SS	SN	SN	NS	SN	82.3	SN	202	2 2	202	2 00	SN	SN	SN	SN	NS	SΣ	SN	2 2	2 00	NS	SN	SN	SN	SN	SN	SN	SN	202	02	2 2	SS	NS	SN
Sodium	SN	SN	SN	NS	203	88	55.2	163	98	×10	75	66	143	32	1 4	2	90	223	282	36	70.5	218	9	3.4	19	69	100	104	86.8	27.1	282	200	25	2 9	3	288	221	222	344	249	285	38	174	218	161	226	211	426	440	207	106	13/	70	3 14	132	172	207
Silicon, Dissolved	NS	NS	NS	SN	SN	SN	SN	63.5	SN	SN	SN	SN	S	2 2	2 4	24.3	3 2	S &	201	1.05	44.4	SZ	29.4	SNS	SZ	SN	SN	SN	8.99	S	S S	SN	S S	n v	S VS	SN	SN	NS	NS	NS	SN	S	SN N	SS	SN	SN	SN	NS	NS	NS	SN	200	200	S V	NS	NS	NS
Potassium, Dissolved	NS	SN	NS	NS	SN	SN	SN	SN	SN	SN	SN	SN		2 2	201	No.	432	2 4	200	2230	687	SN	329	SN	SZ	SN	SN	SN	344	SN	SN	2	2 2	0 0	2 2	SN	SN	NS	NS	SN	SN	SN	2 2	SN	SN	SN	NS	SN	SN	SN	SN	S C	2 4	2 02	NS	SS	NS
Potassium	SN	SN	SN	NS	2830	1200	388	2110	805	85	717	670	0,00	000	222	1/9	1,20	3630	0000	2490	694	1660	363	28.2	514	732	839	604	374	2280	1650	91/	1120	1030	000	947	840	711	1250	892	356	77.2	210	202	590	096	594	1960	1960	1060	442	825	803	579	553	550	702
Magnesium, Dissolved	SN	SN	SN	SN	NS	SN	SN	221	SN	SZ	SZ	SN	2014	200	200	SS	4 0	200	2	273	75.0	P. U.Z	2 4	U.N	S N	SN	SN	SN	59.4	SN	SN	SS	SN	2 2	2 2	SN	SN	NS	SN	SN	SN	SN	N S	2 0	SN	SN	SN	NS	NS	SN	NS	SN	2	ON ON	SNS	SS	SN
Magneslum	ď	SN	SN	S.N.	224	916	25.8	232	66	12	105	80,	146	140	134	105	178	9.57	77	9/1	75.4	70.4	500	64	2 6	152	103	91	63.9	482	496	260	357	376	350	333	253	305	282	376	116	266	183	321	173	330	200	328	477	334	121	261	328	200	146	216	416
Manganese, Dissolved	ON.	200	2 0 2	2 4	2.8	141	0.16	4.5	60	0 0	;;-	- 6	5)	1./	85.0	0.88	1.65	2.0	9.5	2.16	2,0	2.1	0.0	0.0	† 0	0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.53	1.23	64.4	52.5	19.8	25.8	43	37.5	32.8	16.8	24.8	15.9	47.3	10.8	22.4	24.8	33	13.4	22.6	16.5	12.1	18.4	12.8	1.4	7.8	4.5	5.3	3.24	5.7	13.9
Manganese	S.N	2 2	SN	S S S	2.8	18	0.51	3.7	40	000	, α , α	0 7	4 0	2.8	0.98	0.94	1.72	7.7	/ 1	2.16	3.2	0.32	*	4.0	-	- 67	1.17	0.53	1.33	51.1	51	24	33.9	54.9	37.5	8. CA	17.2	28.2	14.7	46.7	11	22.9	43.9	32.0	18.1	24	17.6	11.1	22.8	11.7	2.1	7.4	9	6.1	3.75	3.65	15.6
Calcium, Dissolved	QN.	2 0	2 02	S N	O V	SN	SN	1250	S V	SN	202	202	2 5	SN.	S	SN	808	S S	2	SS S	300	242	280	200	2 04	2 8	SN	NS	633	SN	NS	SN	NS	SN	SN	2 2	SN	SN	SN	SN	SN	NS	SN	SN SN	2 2	SN	SNS	NS	NS	SN	SN	NS	SN	200	S S	NS NS	NS
Calcium	UZ	2 0	2 00	O V	1420	585	159	1250	679	26	1130	2000	25.50	1550	1/60	1160	1010	68.6	1460	99	1430	हें दे	250	300	0.50	1710	1510	942	691	5860	2000	2250	4240	4000	3/20	3420	2000	2890	1470	2630	798	2010	1080	2100	1150	3810	1630	1840	2320	1840	768	1660	2350	9/2	905	1110	1900
Arsenic	UN V	2 42	S S	2 2	50.05	\$0.5	\$0.04 10.04	401	100	5 6		7 5		0.1	c0.05	<0.05	9.6	\$0.04	0.1	0.1	200	20.00	7	5 6	7 5	7 6	Ş Ç	40 05 50 05	<0.05	<0.1	٥.1 م	٥ <u>.</u> 1	Ĉ.1	0.1	- G	00.00	3 5	40.05	0.0	40.1	<0.1	\$0.1	9.1	V.0.7	2000	200	40 OS	6.0	<0.01	0.1	<0.1	0.1	\$ -	0 0	20.00	200	<0.05
Chromium, Dissolved	100	0.91	500	10.00	20.0	90.0	<0.01	0	- 6	5 6		5, 6	SO.	<0.1	0.0/	90.0	0.06	\$0.05	\$0.5 -	<0.1	- 0	4.0	- F	5 6	7	5 6	20.0	<0.05	<0.05	<0.5	0.2	<0.1	0.1	0.2	0.2	0.09	0.50	0.13	<0.5	0.2	<0.1	0.1	\$0.1 0	r.0	8,5	5	0.08	<0.5	0.52	0.4	<0.1	0.3	0.1	0.1	0 0	40	0.73
Hexavalent Chromium,	Dissolved	8 0	NS VO OV	200.00	200	-000	50.55 V 1	50005	30.05	200	3000	50.00	40.05 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	¢0.1	¥ 3	\$0.02 10.03	۲0:05 روزور	1.05 20.0	\$0.05	- 70.0	20.02	50.00	<0.05 <0.05	40.05 40.05	<0.1	<0.1	<0.1	<0.02	<0.1	<0.02	40.05	\$0.05 \$0.05	\$0.05 \$0.05	<0.1 <0.1	c0.1	<0.1	<0.1	<0.05	<0.02	\$ 0.03 9 6	0000	0 12	40.1	<0.005	<0.1	<0.1	<0.1	<0.05	<0.05	\$0.05 50.05	20.05	\$0.0 5
Chromium (Total)	4	2 2	202	2 2	200	4.00	\$0.07 \$0.01	1	5 5	7 9		Ç	×0.1	ô.	0.07	0.05	90.0	<0.05	<0.5	\$0.1	\$0.1	45.0	7,0	Ç0.7	9		200	\$0.05 \$0.05	0.05	<0.5	0.2	<0.1	0.2	0.2	0.2	0.1	0.07	0 12	<0.5	0.2	<0.1	0.1	0.1	0.1	800	3,5	0.08	<0.5	0.51	0.4	<0.1	0.3	0.1	0.1	7.0	50.00	0.61
Sample Collection Date	200017	1/5/2005	6/9/2005	12/14/2004	6/1/2003	10/6/2004	11/15/2004	10/28/2004	4/06/2004	1720/2003	Star Sudo	3/10/2005	4/12/2005	5/12/2005	6/9/2005	7/7/2005	8/10/2005	9/9/2004	10/7/2004	11/11/2004	12/29/2004	1/19/2005	1/2//2005	2/10/2005	3/15/2005	4/14/2005	5/11/2005	7/12/2005	8/10/2005	10/11/2004	1/6/2005	1/27/2005	2/21/2005	3/17/2005	4/19/2005	6/1/2005	6/21/2005	8/16/2005	10/11/2004	1/6/2005	1/27/2005	2/22/2005	3/21/2005	4/19/2005	6/1/2005	7/21/2005	8/16/2005	10/11/2004	12/1/2004	1/6/2005	1/27/2005	2/22/2005	3/21/2005	4/20/2005	6/1/2005	7/13/2005	8/16/2005
Station Name	27.00	EPWW1	EPWW1	GOPWWZ	GOPWWZ	1000	10001	10000	IVVOOL	INVOCI	IOOAI	Loom	10001	10001	10001	10001	10001	10002	10002	10002	1,0002	1W002	10002	10002	1W002	1W002	7000	1000Z	IW002	IW003	100003	10003	IW003	100003	10003	10003	1W003	IWOO3	10000	IW004	IW004	IW004	10004	IW004	10004	10004	IWOOA	500MI	10005	10005	10005	10005	10005	10005	3000	INVIOUS	1W005

	ARCADIS							Ground ChevronTexa (1	Table 4 Groundwater Analytical Results Metals ChevronTexaco Eunice #2 (North) Gas Plant (mg/L unless noted)	Results orth) Gas Plant d)									
Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium,	Chromium, Dissolved	Arsenic	Calclum	Calcium, Dissolved	Manganese	Manganese, Dissolved	Magnesium	Magnesium, Dissolved	Potassium	Potassium, Dissolved	Silicon, Dissolved	Sodium	Sodium, Dissolved	Ferrous	fron	L tro
V006	10/13/2004	1	<0.005	-	<0.1	3560	SN	26.5	22	535	NS	2710	SN	NS	+	NS	230	202	1
v006	12/1/2004	0.41	0.008	Ц	<0.01	4720	NS	41.3	36.4	738	SN	3020	NS	SN	646	SN	300	313	27
V006	1/10/2005	000	0.1 0.1	\perp	0.6	3110	2920	35.3	32.4	305	483 NS	1370	1320 NS	54.5 NS	309	288	98 98	240	1
000	2/22/2005	0.3	\$0.03	_	0.1	2630	o S	24.4	21.5	406	S S	967	SN	SN	196	SNS	28	173	3/2
V006	3/22/2005	0.2	<0.005	Ц	<0.1	2690	SN	33.1	22.9	407	NS	901	NS	NS	207	NS	130	181	۲
9000	4/20/2005	0.2	<0.05	Ц	<0.1	2190	SN	22.7	21.5	387	NS	797	SN	SN	174	SN	110	137	7
9000	5/31/2005	0.2	<0.05	1	40.7	2400	SNS	25.9	23.7	389	SNS	752	SNS	SN	98	SNS	120	151	۲
V006	7/13/2005	0.00	×0.03	\perp	0.02	1770	0 00	17.4	16.8	296	SN	846	S S	SN	200	SNS	26	174	=
V006	8/16/2005	0.18	0.17	Ш	<0.05	1670	NS	16	15.1	272	NS	657	NS	NS	204	SN	82	108	٦
V007	10/13/2004	<0.5	<0.005	Ц	<0.1	3400	SN	11.2	11.1	452	NS	2900	SN	NS	438	SN	220	217	۳
7007	12/2/2004	0.2	<0.005	_	\$ 0.1	3610	SN	15.8	16.8	562	NS	2190	NS	SNS	438	NS	220	181	-
V007	1/10/2005	C.1	40.009 40.05	1	- C.O.	1680	1940 NS	6.5	4.4	29/	SOZ	1000	OCOL SN	NS NS	153	AS NS	55	95.8	4/1
7007	2/22/2005	0.1	40.1		6 0.1	2580	NS	11.9	11.3	352	NS	87.1	SN	NS	162	SN	100	160	1=
V007	3/22/2005	0.1	<0.005	Ц	<0.1	2330	SN	11.1	9.1	321	SN	722	SN	NS	153	SN	26	138	
7007	4/20/2005	<0.1	<0.05	Ц	<0.1	1820	NS	8.2	7.8	266	NS	612	NS	SN	130	SN	92	105	۲Į
7007	5/31/2005	40.1	<0.05	1	<0.1	1930	NS Sign	9.6	23.2	281	SN	808	SN	SN	155	SN	98	122	- -
V00/	5/22/2005	0.07	<0.05	\perp	50.05	1400	S UZ	5.5	5.5	275	Ω.V.	244	S UZ	000	172	200	8,65	94.2	18
V007	8/17/2005	0.11	<0.05	Ļ	<0.05	1430	SZ	5.97	6.3	201	NS	525	NS	SS	170	NS	98	92.7	위문
V008	10/13/2004	<0.5	<0.005	Ц	<0.1	2330	SN	10.3	6.1	459	SN	2270	SN	SN	449	SN	220	221	2
4008	12/2/2004	0.1	0.036	\perp	\$ 0.1	1080	SN	10.5	10.8	246	SN	948	SN	SN	228	SN	190	134	
800%	1/11/2005	- CO.1	50.05	┵	 	1320	202	(.) 8 11	7.4 A.A.	767	n v	71	S U	2 2	9/9	n u	5 6	227	= +
V008	2/23/2005	0.1	<0.1	L	-0.1 -0.1	1250	NS	5.8	0, 9	225	SNS	563	SN	NS	120	SN	120	141	12
VOOR	3/22/2005	0.1	<0.005	Ц	<0.1	1080	SN	4.4	3.3	208	SN	563	SN	SN	133	SN	79	121	8
7008	4/25/2005	0.11	<0.05	4	<0.01	768	SN	4.01	3.93	173	SN	378	SN	SN	ē	SN	120	114	7
800%	5/31/2005	40.1	<0.01	┸	<0.1	829	S S	22	1.87	138	S S S	390	N W	S	121	SN	8 6	0 88	3
,008	7/13/2005	00.1	<0.05	L	<0.1	912	SN	1.8	1.7	205	SN	698	SN	SN	179	NS	8 8	88.7	18
7008	8/17/2005	0.21	<0.05	L	<0.05	1290	NS	8.59	9.52	314	NS	483	NS	SN	192	NS	180	162	۳
600/	10/14/2004	<0.5	<0.005		<0.1	3700	SN	15.2	15.5	541	SN	2550	SN	SN	444	SN	260	236	8
600	12/6/2004	0.24	40.05	1	0.0	4500	3230	23.3	17.4	676	522	1950	1480	48.9	461	369	340	350	الم
600/	2/2/2005	0,11	<0.05	┸	<0.01	375	SN	1.36	23.7	47	SN	142	SN	NS	28	SN	140	36	14
600/	2/23/2005	0.1	<0.1	Ц	<0.1	2970	NS	9.4	10.2	334	SN	885	SN	SN	172	SN	140	205	ř
6007	3/23/2005	0.12	<0.005 <0.005	\perp	\$0.1 \$0.03	3270 2580	S S S	12.7	12.7	368	S S S	730	S S	SN	174	SS	720	181	7
600/	5/31/2005	0.2	<0.05		0.1	2680	SN	10.3	9.7	306	NS	711	NS	NS	161	SN	150	193	=
600/	6/23/2005	60.0	<0.05		<0.05	2830	SN	8.12	7.79	294	SN	956	SN	SN	200	SN	110	150	-
600	8/17/2005	- 00	00.00 V 00.00	1	-0 02 0 05	1880	S W	7.9	0.0	261	S V	425	ON V	o u	26.	SN N	S g	405	- -
/010	10/14/2004	<0.5	<0.005	L	0.1 0.1	9659	SN	<0.5	<0.5	1130	SS	2220	SNS	NS	561	NS NS	370	354	ြက်
/010	12/7/2004	0.79	<0.05		<0.05	12500	SN	236	224	2750	SN	2990	SN	SN	1210	SN	380	580	18
7010	2/2/2005	4.0	00.1 20.1		9 5	4980	SN	134	133	1190	SN SN	820	S V	SN	469	SN	250	344	ကိုမြ
/010	2/24/2005	0.4	0.1	L	0	5150	SN	147	102	1290	SN	830	SNS	NS	521	SN	SN	397	10
/010	2/25/2005	SN	NS	Ц	SN	SN	SN	SN	NS	SN	SN	SN	SN	SN	SN	SN	260	SN	z
010	3/23/2005	400	<0.005		-0.1 -0.01	3250	S V	125	125	10/0	200	5/1 498	S U	N U	463	N U	370	352	٩
010	5/31/2005	1.5	<0.05		000	29100	SN	20 J	101	1630	SN	1010	SN	S	887	SN	280	622	٥١٥
010	6/23/2005	0.42	<0.05		<0.05	3890	NS	<0.05	<0.05	842	NS	650	SN	SN	416	SN	240	353	ျွန်
010	7/13/2005	0.4	<0.05		<0.1	3310	NS	81.4	84.5	724	SN	658	SN	SN	357	SN	340	355	ĕ
010	10/14/2005	0.29 <0.5	\$0.05 \$0.05		40.05	1780	NS	4.7	. 81	535	SN	284	SN	NS NS	372	NS	250 or	230	23
011	12/7/2004	0.26	<0.05		<0.05	9830	NS	41.8	32.9	694	NS	8330	NS S	SN	1290	NS	220	403	-18
011	1/12/2005	40.1	<0.1	¢0.1	<0.01	1830	SN	0.38	2	123	NS	1030	SN	SN	128	NS	98	97.8	i i
011	2/2/2005	1.4	<0.05	╛	<0.1	202	NS	13.5	6.6	16	SN	106	NS N	NS	15	NS	34	147	8

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eurlice #2 (North) Gas Plant
(mg/L unless noted)

Iron, Dissolved	75.5	48.5	93.5	52.7	37.9	50.2	62.3	65	182	105	52.4	68.6	54.5	265	304	318	341	270	282	349	<0.40	222	264	309	1190	306	<0.40	106	57.7	55.6	83	39.3	92.3	65.4	118	129	19.1	56.2	46.9	27.1	26	55.6	24.5	214	211	89.5	152	87.4	212	106	92.5	100	200	SN	SN	SN	SS
Iron	20,	62.7	97.3	84.6	39.1	48.1	63.8	91	280	110	56.2	65.7	51	360	<0.40	309	476	334	295	359	21.1	236	254	324	1160	<0.40	147	105	78.4	299	83.3	5.52	96.4	62.9	158	121	200.7	55.3	48.8	39.6	54.6	55	485	287	211	213	261	112	200	205	75	108	<0.40	NS	NS	SN	SS
Ferrous	88	88	84	29	56	36	53	130	190	SN	53	44	04	330	330	310	73	270	250	350	180	190	260	260	160	310	100	58	59	33	81	40	73	45	130	38	43	47	34	19	28	52	C) GC	8 8	138	128	72	110	210	86	88	95	010	SN	SN	SN	SS
Sodium, Dissolved	SN	NS	NS	SN	SN	SN	SN	NS	SN	SN	SN	NS	SNS	SN	SN	NS	SN	NS	SN	NS	SN	NS	SN	SN	SN	629	SN	SN	NS	SN	NS	SN	SN	NS	NS	2 4	2 2	SN	SN	SN	SN	SN	200	527	SN	SN	SN	SN	SN	SN	SN	SNS	2 52	SN	SN	SN	SS
Sodium	123	88	92	173	107	196	118	288	19	88	133	179	155	441	913	263	24	210	17.2	153	12.5	172	217	271	329	1110	150	119	128	74	74	8.3	98.4	210	223	537	2	140	112	145	166	153	524	655	230	180	150	96	95	172	114	178	432	SN	NS	SS	2
Silicon, Dissolved	NS	SN	SN	SN	NS	SN	NS	NS	SN	SN	NS	NS	SN	SN	SNS	NS	SN	NS	SN	NS	SN	NS	SN	SN	NS	8.77	NS	SN	SN	SN	SN	NS	SN	SN	SN	SN	2 2	SS	SN	SN	SN	S	ON UN	52.8	NS	NS	SN	SN	NS	SN	SN	SN	SN	NS	NS	SN	2
Potassium, Dissolved	SN	SN	SN	SN	SN	NS	NS	NS	SN	SN	SN	SN	SN	SN	SN	SN	SN	NS	SN	NS	SN	NS	SN	SN	SN	4300	NS	SN	NS	SN	SN	SN	SN	SN.	SN	SN	202	NS	SN	SN	SN	SN	0 0 0	3210	SN	NS	NS	NS	SN	NS	SN	S 2	S	SN	SN	SN	S
Potassium	1110	661	897	985	550	854	516	1970	157	980	912	776	586	4580	7960	1940	151	1540	122	1190	96	1070	921	1000	2400	8350	1260	100	1320	648	679	54	999	745	797	4600	1140	1260	980	863	1060	1110	3690	4240	1560	1740	1290	880	977	1290	1060	864	8.4	SN	SN	SN	2
Magnesium, Dissolved	NS	SN	SN	SN	SN	NS	SN	NS	SN	SN	SN	SN	SN	SNS	SNS	SN	SN	NS	SN	SN	NS	NS	SN	SN	NS	386	NS	SN	SN	NS	NS	NS	SN	SN	SS	S S	202	SNS	SN	SN	NS	SN	Q.V	426	NS	NS	SN	SN	NS	NS	SN	SN	SN	NS	SN	SN	2
Magnesium	200	118	177	177	92.1	133	101	163	22	173	135	131	102	692	1240	482	35	411	40.7	443	28.5	345	346	383	234	618	192	175	280	155	187	16.7	188	197	339	485	286	235	237	248	263	299	203	466	248	246	230	170	186	252	124	165	87.5	NS	NS	SN	S
Manganese, Dissolved	6.3	3.7	7.5	5	2.85	2.5	4.15	3.6	9.7	3.4	2.23	2.6	1.78	15.1	25.2	17.9	15.6	10.9	12.2	12.3	<0.01	7.76	6.5	7.16	63.3	9.5	<0.01	3.5	2.5	1.1	1.1	0.61	1.46	0.7	1.15	12.3	25.5	3.8	3.3	2.4	5.44	3.66	0.03	11.5	7.6	3.3	5.9	1.3	14.5	5.4	4.44	4.95 5.38	0.04	SN	SN	SN SN	מצ
Manganese	8.8	5.9	8.2	10.3	3.11	2.4	4.2	4.6	15	3.6	2.4	2.6	1.66	19.5	44.6	18.5	22	13.5	12	12.7	0.76	8.25	6.2	7.47	62.3	15.1	1.1	3.3	3.4	1.1	1.1	60.0	1.54	0.7	1.49	11.6	, ,	3.8	3.4	3.52	8.26	3.62	- 7	14.7	7.6	12	10	3.9	13.7	14	4.22	5.2	0.02	SN	SN	SN	Z OZ
Calcium, Dissolved	SN	SN	SN	SN	NS	SN	SN	NS	SN	SN	SN	SN	SN	SNS	NS	SNS	SN	SN	SN	NS	SN	SN	SN	SN	SN	3030	NS	SN	NS	SN	SN	NS	NS	NS	SN	2 2	2 2	SN	SN	SN	NS	SN	0 0	5370	SN	NS	NS	NS	NS	SN	SN	S V	SN	SN	SN	SN N	22
Calcium	2980	1920	2880	2990	1530	1820	2130	1650	365	4080	2670	2430	2090	4080	9610	2700	197	2730	80%	2820	232	2450	2300	3030	2150	5840	1770	218	2970	1980	2280	285	3280	2600	4600	7160	4750	4530	4500	4660	3970	6490	330	6340	4700	4430	3930	4870	4030	5530	3690	3530	255	SN	SN	SN	2
Arsenic	<0.1	<0.1	\$ 0.1	<0.1	<0.05	<0.1	<0.05	<0.1	<0.1	¢0.1	<0.05	001	<0.05	0.05	40.05	60.1	6	\$0.1	6.1	0.1	<0.01	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.05	<0.1	<0.05	0.0	<i>i</i> (0.0	¢0.1	<0.05	<0.05	\$ 60.05 50.05	3 5	9	0.0	\$0,	¢0.1	<0.1	<0.1	<0.05	000	\$0.05	\$0.00	SN	NS	S S	22
Chromium, Dissolved	0,1	¢0.1	6 0.1	<0.1	<0.05	40.1	<0.05	<0.5	0.1	4 0.1	<0.05	001	0.05	9.0	0.7	0.7	0.7	0.5	0.5	0.7	0.32	0.39	0.5	0.52	6.0	0.2	0.02	0.1	<0.1	<0.1	<0.1	0.05	0.08	¢0.1	0.14	9.00	20.0	0.2	0.2	0.12	0.18	0.21	0.24	200	0.1	0.1	0.1	<0.1	0.2	0.08	0.07	0.09	0.54	0.25	0.22	\$0.01	0.02
Hexavalent Chromium,	<0.1 <0.1	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.1	<0.05	<0.05	<0.05	<0.05	<0.005	<0.05	<0.1	<0.1	<0.1	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.05	<0.1	<0.1	<0.1	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	00.0	200	\$0.1 1	<0.02	<0.05	<0.05	<0.05	500	0 0	0 005	40.1	<0.005	<0.1	<0.02	<0.05	<0.05	<0.05 <0.05	0.88	0.15	SN	<0.005 NS	2
Chromium (Total)	0.1	9	<0.1	<0.1	<0.05	¢0.1	0.05	<0.5	0.2	<0.1	0.05	6	0.05	0.75	1.29	0.7	-	9.0	0.5	0.7	0.04	0.42	0.5	0.54	6.0	0.32	<0.1	0.1	<0.1	<0.1	<0.1	<0.01	0.08	<0.1	0.14	60.5	200	0.2	0.2	0.17	0.24	0.21	30.5	0.50	0.1	0.2	0.2	<0.1	0.2	0.14	0.07	0.09	0.49	NS	SN	SN	20
Sample Collection Date	2/24/2005	3/23/2005	4/26/2005	5/26/2005	6/23/2005	7/14/2005	8/18/2005	10/14/2004	2/3/2005	3/30/2005	6/23/2005	7/14/2005	8/18/2005	10/19/2004	12/7/2004	1/12/2005	2/3/2005	2/24/2005	3/24/2005	4/26/2005	5/25/2005	6/23/2005	7/14/2005	8/23/2005	10/19/2004	12/7/2004	1/13/2005	2/3/2005	2/24/2005	3/24/2005	4/26/2005	5/25/2005	6/28/2005	7/14/2005	8/23/2005	10/11/2004	2/21/2005	3/17/2005	4/19/2005	6/1/2005	6/21/2005	7/21/2005	10/10/2004	11/22/2004	1/4/2005	1/27/2005	2/16/2005	3/15/2005	4/19/2005	6/1/2005	5/21/2005	8/23/2005	6/16/2005	12/29/2004	6/7/2005	1/12/2005	2/20/2002
Station Name	IW011	IW011	IW011	IW011	IW011	IW011	IW011	10012	IW012	IW012	1W012	IW012	IW012	IW013	IW013	IW013	IW013	IW013	IW013	IW013	10013	IW013	IW013	1W013	IW014	IW014	IW014	IW014	IW014	IW014	IW014	IW014	IW014	IW014	1W014	10015	10/015	1W015	1W015	IW015	1W015	IW015	10015	1W016	IW016	10016	IW016	IW016	IW016	IW016	1W016	W016	1W028	LordWW	LordWW	MW001	NAMO.

	lron	0.76	SN S	S V	S	NS	SN	0.40	n u	SN	<0.40	SN	O V	<0.40	SN	5.85	SN	2 5	S S S	SS	<0.40	\$0.1 0.1	000	<0 40 40 40	<0.40	<0.40	3.84	73.4	20.4	16	35.4	5 6	40.40 40.40	<0.40	0.61	0.92	3.66	2.13	1.52	174	2.4	7.3	19.7	24.2	26.7	19.6	11.5	8.69	254	6.6
	Ferrous	< 1.0	SN	S S	SS	NS	NS	v 1.0	n v	× 1.0	SN	SN	2 V	SNS	NS	2.3	SN	2	NS NS	SN	< 1.0	< 1.0	0 0	v 10	٠ ۲	< 1.0	1.2	4 8	21	19	29	0.1.0	× 1.0	× 1.0		19	5.2	2	v 1.0	4 0	× 1.0	2.2	< 2.0	0.12	× 1.0	11	5.1	× 1.0	5.2	× 1.0
	Sodium, Dissolved	381	SN S	S S	SN	NS	SN	547	SZ	SN	666	SN	o v	109	SN	699	SN	S	SN SN	SNS	281	NS	2 2	763	620	969	583	620	. 969	727	507	S	SN	664	564	2002	635	716	286	593	SN	SN	SN	628	828	944	815	803	700	796
į	Sodium	370	SN :	S	SS	NS	SN	526	S V	NS NS	1010	SN	S S S	201	SN	745	SN	SS	SON N	SNS	264	824	207	826	699	758	620	, 43 808	697	841	548	95 08	1420	630	640	989	664	635	200	200	804	969	950	888	206	928	1050	7/4	674	790
	Silicon, Dissolved	29	SN.	SN U	SN	NS	SN	35	S S	SN	31.7	SS	S S	24.9	SN	18.5	NS	NS 35.7	SS. N	SN	28.1	SN	S	37.4	37.1	45.1	48.4	25.7	42.2	NS	34.4	S	SS	33.4	31.4	33	10.6	29.3	31	32.1	SN	NS	SN	30.5	33.8	32.5	20.2	26.3	30.5	30.8
	Potassium, Dissolved	NS	SN	S S	S	SN	SN	80 9	SN	2 00	10.5	SN	S S	2	NS	23	SN	SN	o v	SN	9.6	NS	S S	2100	11.7	14	12.2	10.2	8.6	8.9	<10	S S	SS	<100	16.9	17.5	14.9	13.6	4	0.4	SN	SN	SN	45	15	15.8	14.6	13.7	13.8	15
	Potassium	8.3	SN	SNS	SZ	SN	SN	7.5	SN	SN	11.1	SN	n u	46	SN	30	NS	SNS	n v	SN	9.3	12.4	10.9	10.3 <100	12.2	11	13.6	2 5	9.6	9.3	<10	14.6	16	15.8	17.2	16.8	18.5	14.2	14.4	13.5	16.3	14.6	18.6	44.9	15	15.6	14.4	14.0	14.6	14
	Magnesium, Dissolved	60.1	SZ	<u> </u>	SS	SN	SN	106	S S	SN	114	SN	S UZ	100	NS	159	SS	SZ	0 0/2	SN	104	NS	SNS	125	87.8	120	79.4	79.7	97.7	114	86	S S	SN	210	178	192	172	174	198	82.4	SN	SN	SN	313	344	331	335	330	312	333
Results · · orth) Gas Plant d)	Magnesium	59.1	SN	S S	S S	SS	SN	66	SN	S S	115	SN	S V	15.8	SN	182	NS	SN	84 NO	SN	100	145	101	147	91.7	136	84.6	84.3	96.2	107	109	183	187	167	175	194	186	174	198	83.3	220	212	350	336	376	334	428	320	205	330
Table 4 Groundwater Analytical Results Metals ChevronTexaco Eunica #2 (North) Gas Plant (mg/L unless noted)	Manganese, Dissolved	0.65	SN	SN 2	2 00	SN	SN	<0.01	S S	S S	0.04	SN	S o	20.02	SN	1.86	NS	SNS	LO:02	SN	<0.01	<0.05	<0.05	20.00	0.02	0.05	0.31	0.85	5.31	3.67	2.74	90.0	60.0	0.13	0.18	0.95	1.79	2.25	2.14	1./1	<0.05	<0.05	<0.01	0.03	<0.01	3.66	1.46	1.71	2.12	1.65
Ground	Manganese	0.64	SN	S	O S	NS	NS	<0.01	S S	0 00	0.04	NS	SN	200	SN	2.01	NS	SN	VO.07	S	<0.01	<0.05	<0.05	20.05	0.02	0.06	0.33	0.94	4.02	4.18	3.01	90.0	60.0	0.13	0.22	1.13	1.91	2.21	2.24	2.70	<0.05	<0.05	<0.01	0.03	0.00	3,57	1.53	1.56	2.14	1.61
	Calcium, Dissolved	232	SN	SN	ON V	SN	SN	352	SN	0 00	290	SN	SS	30.6	SN	440	SN	SN	216	S S	225	SN	SN	NS V	430	486	445	482	443	519	346	SN	SN	617	641	618	492	554	435	NS 424	- SN	SN	NS	767	299	680	479	483	515	498
	Calcium	225	SN	SN	o v	NS	NS	327	SZ GZ	o Z	300	SN	SN	20.1	NS	542	SN	NS	238	S S	214	646	905	540	449	541	469	549	458	506	391	617	2720	589	617	595	920	495	496	123	645	999	800	756	729	699	267	475	502	496
	Arsenic	<0.01	SN	SN	Q V	SNS	SN	<0.01	SN	S S	<0.01	SN	SN	25	NS	<0.01	SN	SN	Q.03	2 02	\$0.04 10.04	<0.01	0.0	5 5	000	40.04	<0.01	000	000	<0.01	<0.01	0.00	000	<0.01	000	000	<0.01	<0.01	<0.01	40.02 50.02	<0.01	<0.01	<0.01	\$ 60.01	<0.01	0.01	0.01	0.00	\$0.01 50.01	<0.01
	Chromium, Dissolved	0.04	0.03	0.00	60.0	0.3	0.18	0.56	0.6	SEN	0.32	0.15	0.13	200	0.03	<0.01	0.03	0.02	0.01	0.25	0.36	4.44	2.78	2.43	2.19	2.56	0.28	0.12	0.04	0.04	0.02	3.84	3.75	3.56	2.83	173	0.182	0.1	0.09	0 11	0.19	0.18	0.19	0.16	0.13	0.12	0.1	- 6	200	0.1
	Hexavalent Chromium,	<0.005	0.025	SN	0.029	0.02	NS	0.85	0.55	0 0	0.35	0.08	SN	8000	SN SN	<0.005	0.021	SN	0.017	S.S.	NS	1.3	0.49	4. α	0	2	<0.005	<0.005	40.005 40.005	<0.01	<0.005	1.6	9.0	1.9	4.6	14	<0.005	<0.01	<0.05	\$ 0.01	<0.005	0.005	<0.05	0.02	<0.005	90.0	<0.005	\$0.01	\$0.07	40.01
	Chromlum (Total)	0.04	NS	SN	S S	SN	SN	0.41	SN	S S	0.34	NS	SN	200	NS	0.05	NS	SN	0.01	2 2	0.36	3.92	3.08	3.04	2.13	2.32	0.57	0.42	50.0	0.05	0.04	3.83	3.75	3.51	3.31	1.65	1.49	0.42	0.21	0.13	0.75	0.59	0.5	0.22	0.13	0.14	0.13	0 0	0.37	0.11
ARCADIS	Sample Collection Date	8/24/2005	1/4/2005	6/6/2005	1/4/2005	1/6/2005	6/3/2005	8/11/2005	1/4/2005	6/6/2005	8/15/2005	1/4/2005	6/6/2005	8/11/2005	6/30/2005	8/25/2005	1/4/2005	6/3/2005	8/11/2005	6/3/2005	8/10/2005	9/16/2004	10/4/2004	11/8/2004	1/13/2005	2/8/2005	3/8/2005	4/6/2005	6/7/2005	7/6/2005	8/2/2005	9/16/2004	11/8/2004	12/16/2004	1/6/2005	3/8/2005	4/6/2005	5/10/2005	6/7/2005	//6/2005 8/2/2005	9/16/2004	10/4/2004	11/9/2004	12/15/2004	2/8/2005	3/8/2005	4/6/2005	5/11/2005	7/6/2005	8/2/2005
	Station Name	MW001	MW002	MW002	MVVOOZA	MW003	MW003	MW003	MW004	MW004	MWD04	MW004A	MW004A	MVV004A	MW005	MW005	MW007	MW007	MV007	MANA/OO7 A	MW007A	MW008	MW008	MW008	MWO08	MWOO8	MW008	MW008	MWOOB	MW008	MW008	MW008A	MWOOBA	MW008A	MW008A	MWOURA	MW008A	MW008A	MW008A	MW008A	MWOORM	MWOORM	MWOOBM	MWOOBM	MWOORM	MW008M	MW008M	MWOOBM	MWOORM	MW008M

Iron, Dissolved

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Iron, Dissolved	SN	NS	<0.40	SN	NS	<0.40	SN	NS	<0.40	NS	\$0.1	0.7	SN	SN	<0.20	SS	20.40	0.40	SP 05	1.2	<0.40	<0.40	<0.40	<0.40	<0.1	SN	- V	<0.20	SN	<0.40	SN	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	×0.40	25	17.7	SN	SS	07.07	203	<0.40	<0.40	0.75	<0.40	5.18	1000	10.9	50.1	¢0.1	<0.40
<u>5</u>	SN	SN	<0.40	SN	SN	<0.40	NS	SN	<0.40	SN	<0.1	0.1	SIS	SN	0.89	SN	9 9	040	04 05	4.13	<0.40	<0.40	<0.40	<0.40	<0.1	SN	L VN	<0.20	SN	<0.40	NS	<0.40	0.40	<0.40	<0.40	<0.40	0.40 40	<0.40	26.4	17.2	SN	SN	14.1	52.9	2.62	2.18	2.22	<0.40	10.5	7.5	8.53	310	¢0.1	<0.40
Ferrous	SN	NS	< 1.0	NS	SN	< 1.0	SN	SN	× 1.0	NS	× 1.0	SN	v 10	NS	v	SN	7 0	0 0	v 4	, v	× 1.0	< 1.0	< 1.0	< 1.0	< 1.0	SN	7. V	2 v	SN	< 1.0	SN	×1.0	0.10	v 10	× 1.0	< 1.0	× 1.0	v 10	200	SN	1.1	SN	v 2	2 12	-	< 1.0	< 5.0	v	1.1	7 1 2	18	v 10	× 1.0	×1
Sodium, Dissolved	NS	SN	396	SN	SN	322	SN	SN	616	NS	SN	SN	SN	SN	SN	SS	2010	736	618	822	607	662	609	708	SN	SN	ON V	SN	SN	245	SN	642	702	834	751	786	679	999	ON V	NS	SN	SN	2 2	930	856	883	833	631	782	420	787	NS	NS	SN
Sodium	SN	SN	431	SN	SN	357	NS	SN	688	SN	836	1320	SS	NS	761	Ses	760	751	815	826	622	655	792	736	504	SN	3 4	504	SN	400	SN	639	693	730	728	827	814	725	250	1480	SN	SN	040	1050	870	871	923	720	821	3 8	742	467	4640	434
Silicon, Dissolved	SX	SN	26.3	SN	SN	34.7	SN	SN	25.2	NS	NS	SN	NS	SN	SN	SNS	32.4.0	38.4	27.5	23.7	40.8	32.4	35.2	46.2	SN	SN	0 0 0	SN	SN	SN	SN	25.6	33.5	28.1	28.6	27.7	29.7	33.3	2 2	SNS	SN	SN	2 2	2 2 2	29.4	25.8	30.4	31.1	35.7	3 2	30.9	NS.	SN	SN
Potassium, Dissolved	SN	SN	11.2	NS	SN	5.8	NS	NS	15.4	NS	SN	SN	SN	SN	SN	SNS	10.2	1,000	113	14.5	138	12.9	13.8	14	SN	SZ	2 2	SN	SN	<10.0	SN	<100	17	16.1	16.2	16.9	17.6	91	200	SN	NS	SN	2 2	13.4	12.8	16	14.5	12.6	14.6	2 4	13.8	SN	SN	SN
Potassium	SN	NS	11.3	SN	SN	5.8	SN	SN	16.4	NS	13.5	13.1	NS	SN	11.6	SN	4100	200	17.7	14.1	16	12.3	14.2	14.1	11.8	SN	UN	6.21	NS	<10.0	SN	×100	2 5	16.2	8	16.6	28	18.1	12.3	13.2	SN	SN	7 2	16.4	×100	16	14.6	13.4	13	18.6	13.4	16.9	19.5	19.2
Magnesium, Dissolved	SN	SN	122	SN	SN	41.8	SN	SN	306	SN	SN	SN	SN	SN	SN	NS	157	175	135	575	191	171	.172	206	NS	SN	SN VN	SN	SN	67.9	SN	170	193	162	161	170	170	1/8	S V	SNS	NS	SN	2 2	510	470	537	543	162	573	908	580	SN	SN	SN
Magnesium	SN	NS	127	SN	SN	48.4	NS	SN	337	NS	136	135	SN	SN	128	NS	171	183	175	578	195	167	175	173	115	SN	99.4 No	56.5	SN	6.08	SN	171	192	165	195	176	508	174	383	731	SN	SNS	380	570	477	533	604	169	585	640	544	108	88.1	86.5
Manganese, Dissolved	NS	NS	<0.01	NS	NS	<0.01	NS	NS	<0.01	NS	<0.05	<0.05	SN	SN	SN	SSS	20.05	100	100	<0.01	0.03	0.03	0.03	0.03	<0.05	SN	20.02 VN	0.03	NS	0.02	SN	0.02	0.03	0.03	0.03	0.03	0.03	200	50.05	<0.05	SN	SN	10.02	\$0.07	<0.01	0.64	23.8	0.02	3.4	2,5	2.02	<0.05	<0.05	<0.01
Manganese	SN	NS	<0.01	SN	SN	<0.01	NS	SN	<0.01	NS	<0.05	<0.05	SN	SN	0.01	SNS	200	5 6	5 5	<0.01	0.03	0.03	0.04	0.03	<0.05	NS	CO.O2	0.03	SN	0.02	SN	0.02	0.03	0.03	0.03	0.03	0.03	0.04	20.05	<0.05	SN	SN	500	\$ 000	<0.01	0.81	34.4	0.02	7.85	28.5	1.83	<0.05	<0.05	<0.01
Calcium, Dissolved	SN	NS	258	NS	SN	133	SN	SN	674	NS	NS	NS	SN	NS	SN	SN	448	515	515	1310	636	269	668	711	NS	SN	2 2	SN	SN	324	SN	458	559	665	579	590	680	512	2 2	SN	SN	SZ	2 2	1200	1060	1280	1300	623	984	312	537	NS	NS	NS
Calcium	SN	NS	281	SN	SN	161	NS	SN	733	SN	627	066	SN	SN	618	SN	084	577	652	1330	639	676	818	730	398	SN	040	427	SN	430	NS	469	564	588	570	628	620	228	228	1660	SN	SN	048	1330	1060	1280	1440	2650	999	960	510	416	3850	343
Arsenic	SN	NS	¢0.01	NS	SN	<0.01	SN	NS	<0.01	SN	٥.0 ⁴	\$0.01	SN	SN	×0.01	SN	5000	5 5	000	<0.0×	<0.01	<0.01	<0.01	<0.01	<0.01	SN	0.07 NS	\$0.0×	NS	<0.01	NS	40.01	000	40.00	<0.0	<0.01	<0.01	\$0.01	2 5	0.07	NS	NS	40.0	500	40.04	<0.01	<0.01	\$0.04	000	2000	40.03	000	<0.01	<0.01
Chromium, Dissolved	0.19	0.12	101	1.05	0.93	0.07	90.0	0.06	0.13	NS	3.94	3.98	SN	SN	4.1	SN	3.77	20.5	2.91	0.42	3,35	3.19	3.24	3.43	2.13	NS	1.69	2.23	SN	1.87	NS	3.22	3.55	3.89	3.83	3.44	3.55	3.44	200	0.18	NS	SN	0.11	0 23	0.27	0.02	0.42	3.13	0.43	50.0	0.39	2.35	1.52	1.57
	0.17	NS	0.061	6.0	SN	9.0	0.04	NS	0.16	1.7	1.7	1.8	NS	3	2.9	4.4	7	7.7	2.3	33	3.1	3.3	4.4	3.2	1.3	2	1.4	7.6	3.3	8.0	2	NS	3.2	† m	4,8	3.2	4.1	3.1	60.00	1	NS	3	\$0.005	\$0.05	<0.005	<0.005	<0.02	<0.05	80.05	\$0.05	<0.05	13	0.5	0.018
Chromium (Total)	SN	SN	1.04	SN	SN	0.1	SN	SN	0.15	NS	4.21	3.88	SN	SN	3.87	SNS	3.40	2 70	2 92	0.43	3.38	3.08	3.52	3.63	2.45	SN	1.67	2.24	NS	1.7.1	NS	3.17	3.27	3.91	3.64	3.47	3.59	3.44	212	0.17	SN	SN	2 2	200	0.29	90.0	0.42	3.28	0.41	0.42	0.35	3.08	1.47	1.42
Sample Collection Date	1/4/2005	6/6/2005	8/16/2005	1/11/2005	6/6/2005	8/16/2005	1/3/2005	6/6/2005	8/18/2005	9/14/2004	9/15/2004	10/5/2004	10/6/2004	11/11/2004	11/16/2004	12/20/2004	17572004	2/8/2005	3/9/2005	4/12/2005	5/12/2005	6/8/2005	7/11/2005	8/4/2005	9/15/2004	10/5/2004	10///2004	11/16/2004	12/20/2004	12/29/2004	1/19/2005	1/25/2005	2/8/2005	4/11/2005	5/11/2005	6/8/2005	7/11/2005	8/4/2005	9/15/2004	10/5/2004	10/6/2004	11/11/2004	11/16/2004	12/29/2004	1/25/2005	2/9/2005	3/9/2005	4/12/2005	5/12/2005	7/11/2005	8/8/2005	9/9/2004	10/6/2004	11/10/2004
Station Name	600WM	MW009	MW009	MW009A	MW009A	MW009A	MW010	MW010	MW010	MW011	MW011	MW011	MW011	MW011	MW011	MW011	MANO 1	MANAGE 1	MAN/031	MW011	MW011	MW011	MW011	MW011	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MANOTAN	MW011M	MW011M	MW011M	MANOTIN	MW011M	MW011M	MW011M	MW011M	MW011M	MW011M	MW011M	MW011M	MW012	MW012	MW012

	lron	<0.40	<0.40 240	0.57	<0.40	<0.40	<0.40	<0.40	0.40	0.2	<0.40	6.6	0.40	9 6	1.61	<0.40	<0.40	60.40	04.0	0.3	<0.40	<0.40	C0.40	<0.40	<0.40	40.40	6.6	<0.40	SN	S S	SS	NS	°0.40	S S	<0.40	SN	2 5	NS	NS	SN	SN	S S	NS	SN	S S	NS	SN	SN	S S
	Ferrous	<1	× 1.0	0.1 ^	· \	<1×	< 1.0	× 1.0	0.0	× 1.0	<1	×1	< 1.0	\ \ \	× 1.0	<1	< 1.0	× 1	0.1.0	× 1.0	<1	1.6	0.5	V. 1.	٧ 1	v 1.0	, L v	<1	SN	NS.	NS	NS	۲۷	S S	< 1.0	SN	NS.	SN	NS	SN	S	S S	NS	SS	S S	SN	SN	SN	SS
	Sodium, Dissolved	352	410	438	379	378	430	321	356	SN	SN	SN	108	124	95.4	96.8	113	102	0.88	NS	NS	237	240	250	189	206	508	240	SN	SR7	SN	NS	152	SN SN	591	SN	NS.	NS	NS	SN	SN	SNS	SN	SS.	SS	SN	SS	SN	SN SN
	Sodium	504	505	275	382	394	407	392	3/6	100	108	122	112	123	9	96.3	111	40.5	101	335	297	287	245	251	180	201	210	252	SN S	SS &	SN	NS	147	S S	503	SN	2 2	SN SN	NS	SN	SS S	SS	NS	SN S	2 2	SN	SN	SN	S S
	Silicon, Dissolved	35.6	35.5	40.4	32.5	30.9	33.4	31.5	42.9 No	SN	NS	19.5	22.2	79.8 8 62	20.5	21.5	22	21.4	23.4 NS	SN	NS	26.5	25.6	30.5	21.9	24.1	23.7	25.6	SN	NS.	NSN	NS	11.2	SN	37.5	SN	NS 7	NS	NS	SN	SNS	S S	SN	SN	S	NS	SN	SN	SN
	Potassium, Dissolved	16.2	19.3	73	17.7	19.6	20	19.4	19.5	SN	SN	×100	<10.0	// <10	7.1	7.4	8.5	7.3	C.)	SN	SN	<10.0	0.01	1	7	7.4	8	8.2	SN	NS.	SN	NS	5.4	S S	9.5	SN	NS.	SN	NS	SZ	SS	S S	SN	SN	N N	SN	SN	SN	2 SZ
	Potassium	18.6	17.7	67	17.1	19.3	19.6	20.2	19.3	7.5	<10.0	×100	×10.0	410	7.5	7.5	. 8.2	7.8	2 0	8.1	<10.0	<100	410.0	9 6	7.3	7.7	7.5	8.3	SN	SS	SIS	NS	5.2	SN	10.5	SN	SS	NS	NS	SN.	SNS	S S	NS	SN	S S	NS	SN	SN	SN SN
	Magnesium, Dissolved	70.8	89.8	100	88.5	81.7	91.2	85.5	101	SN	SN	18	17	15.8	15.6	15.2	17.6	16.1	9.0	SN	NS	143	150	157	119	127	139	183	SN	NS 154	SN	NS	38.8	S S	102	SS	SNS	S SN	NS	S	SNS	S S	NS	SN	S C	SN	SN	SN	SN
Results orth) Gas Plant ed)	Magnesium	81.4	87.5	105	86.1	82.8	94	90.8	106	17.1	16.8	19	17.8	19	15.7	15.1	17.2	16.4	16.2	158	164	173	153	158	115	124	141	193	SN S	N. 7.1	SN	SN	38.2	SN	111	SN	NS OO	NS	NS	SN	SS	SN SN	NS	SN	S CZ	SN	SN	SN	2 2
Table 4 Groundwater Analytical Results Metals: Metals: (hevronTexaco Eunice #2 (North) Gas Plant (mg/L unless noted)	Manganese, Dissolved	<0.01	<0.01	\$0.1 \$0.04	10.05	<0.01	<0.01	<0.01	\$0.01 90.01	<0.05	0.01	\$0.01	\$0.03	\$0.04 \$0.04	<0.01	<0.01	<0.01	40.01	0.00	18	2.2	-	0.97	0.57	0.56	0.55	0.54	0.54	SN	SS	SN	NS	<0.01	0 00	0.02	SN	SS	SN	NS	SN	SN	SS	SN	SN	2 2	SN	SS	SN	S S S
Groun ChevronTexa (Manganese	<0.01	<0.01	20.1	<0.01	<0.01	<0.01	<0.01	20.07	<0.05	<0.01	<0.01	<0.01	0.03	0.03	<0.01	<0.01	40.01	40.01	2.37	2.82	1.36	1.01	0.61	0.61	0.54	0.59	0.68	SN	NS 000	NS	SN	<0.01	SZ Z	0.01	SN	NS.	SN	NS	SN	SS	SN	SN	SN	0 V	NS	SN	SN	SN
	Calcium, Dissolved	298	337	014	368	371	423	344	3//	SN	NS	37	36.4	34.7	34.5	33.8	38.7	34.9	35.3	S S	NS	164	24/	203	176	160	165	201	SN	SV	SN	NS	73.6	o S	481	SN	NS	SN	NS	SN.	SN	NS	SN	SN	S S	NS	SN	SN	S S
	Calcium	401	393	440	370	392	398	392	394	38.4	36.4	41	39.7	38.7	38.2	34.5	38.2	37.9	33.4	275	230	191	169	205	188	159	169	221	SN	NS VO7	SN	NS	73.3	SNS SNS	407	SN	NS.	SN	NS	SN	SN	S S	SN	SN	S S	SN	SN.	SN	SN SN
	Arsenic	<0.01	6.07	5 6	000	<0.01	<0.01	<0.01	0.0	0.02	0.02	\$0.04	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.08	90.0	0.03	20.0	0.05	0.03	0.02	0.07	<0.01	SN.	SS	SN	NS	0.01	S S	40.01	SN	SS	NS.	SN	SN	SN	SN	SN	S	S S	SN	SN	SN	S S
	Chromium, Dissolved	1.39	4.6	1.8	1.45	1.25	1.2	1.18	200	<0.05	<0.01	6.01	\$0.04	0.00	<0.01	<0.01	<0.01	<0.01	50.00	40.05 0.05	0.03	0.03	50.03	0.00	0.02	0.02	0.00	0.02	0.97	80 -	0.04	0.02	0.15	0.37	1.12	<0.01	40.01	0.0	0.01	<0.01	0.01	40.07 40.01	<0.01	<0.01	\$ 6.01	<0.01	<0.01	6 0.01	\$0.07
	Hexavalent Chromlum, Dissolved	6.0	1.3	6.0	0.51	0.63	1.7	1.2	4.0	<0.005	<0.05	<0.005	<0.005	\$0.005 \$0.005	<0.005	<0.005	<0.005	<0.005	\$0.005 \$0.005	<0.005	<0.005	0.006	5000	<0.005	<0.005	<0.005	<0.005	<0.005	-	N V	0.031	NS	0.2	SNS	1.1	0.005	NS C	0.01	NS	0.006	NS	NS	0.01	NS	CUO ON	<0.005	SN	<0.01	<0.005
	Chromium (Total)	1.24	1.47	4.3	1.92	1.14	1.44	1.27	1.33	<0.05	<0.01	<0.01	40.01	20.05	<0.01	<0.01	<0.01	40.01	10.00	20'0	0.04	0.04	5003	0.02	0.02	0.02	0.03	0.02	SN	SS	SN	NS	0.15	2 2	1.46	SN	NS	NS	NS	SN.	SN	SS	SN	SN	S S	NS	SN	SN	SN
ARCADIS	Sample Collection Date	12/28/2004	1/18/2005	2/3/2005	4/13/2005	5/17/2005	6/9/2005	7/11/2005	8/8/2005	10/6/2004	11/10/2004	12/28/2004	1/18/2005	3/10/2005	4/13/2005	5/17/2005	6/14/2005	7/12/2005	8/8/2003	10/6/2004	11/10/2004	12/28/2004	1/18/2005	3/10/2005	4/13/2005	5/18/2005	7/12/2005	8/9/2005	1/10/2005	8/3/2005	1/11/2005	6/3/2005	8/23/2005	6/8/2005	8/22/2005	12/16/2004	8/23/2005	1/4/2005	6/3/2005	12/20/2004	42/18/2005	6/2/2005	1/4/2005	6/3/2005	5/31/2005	12/16/2004	5/31/2005	12/20/2004	1/3/2005
-	Station Name	MW012	MW012	MVV012	MW012	MW012	MW012	MW012	MW012	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MANAGESA	MW012M	MW012M	MW012M	MWOJZM	MW012M	MW012M	MW012M	MW012M	MW012M	MW013	MW013	MW013A	MW013A	MW013A	MW014	MW014	MW014A	MW014A	MW015	MW015	MW015A	MW015A	MW016A	MW017A	MW017A	MW018	MW018A	MW018A	MW019A	MW020

Iron, Dissolved Table 4 Groundwater Analytical Results Metals

	, ved		T	T	T					T		2		9		٥		Ţ			õ									Ţ				T	Ţ				Ţ					T.	60			او	T			
	lron, Dissolved	SN	S	2 2	2 2	S N	Š	SN	SN	SN	Ž	N N	SN	<0.4	SS	N C	N N	0,0	SN	SN	7·0>	N S	2 2	Z	SN	NS	SN	SZ :	Z	S S	SX	SN	Z Z	Z	Sign	SZ	SZ S	2 2	2 02	2.0	SN	SN	() ()	2 8	6.36	SN	SN	4.0	2 2	500	SN	NS
	Iron	SN	SN	2 2	SN	SN	SN	SN	SN	S	SS	SNS SNS	SN	<0.40	SN	S S	S	SN	NS	SN	<0.40	SN	2 2	SN	NS	SN	SN	SN S	S V	SN	SN	NS	SN S	n y	SN	NS	SN	S U	SS	2.35	SN	SN.	1.17	28	6.42	NS	SN	\$ 40 2 40	2 V	<0.40	NS	SN
	Ferrous	NS	SN	2 2	SS	NS	NS	SN	SN	SN	NS.	SN	SN	\ \ \	SN	SN S	SN	SN	SN	SN	< 1.0	SS	2 2	SS	SN	SN	SN	SN	S V	SNS	SN	SN	SN	2 2	SN	SN	SN	S S	SNS	1.3	SN	SS	0 2	SNS	5.8	SN	SN	0 V	S S	\$ v	NS	NS
	Sodium, Dissolved	NS	SN	202	SZ	NS NS	NS.	NS	NS	SN	SS 52	SNS NS	SN	104	NS	S	S S S	SN	SNS	SN	171	SN	202	2 5	NS	SN	NS	SN	SS	SN	SN	SN	SN	S V	SN	SN	SN	SN N	S	422	NS	SN	472	SNS SNS	192	SN	SN	135	No	93.4	SN	SN
	Sodium	SN	SN	2 2	SN	SN	SN	SN	SN	SN	NS	SN	SN	103	NS	SN	2 22	SNS	SN	SN	156	SS	2 2	S S	SN	NS	SN	SN	SZ	SN	SN	SN	SN	SZ SZ	SN	SN	SN	2 2	SNS	387	SN	SN	425	SNS	192	NS	SN	4 5	S S	983	SN	NS
	Silicon, Dissolved	NS	SN	S S	SN	SN	SN	NS	SN	SN	NS 3 5 6	32.3 NS	NS	24.7	NS	SN	2 00	SN	NS	SN	24.9	SN S	200	S S	SN	SN	NS	SS	S	SN	SN	NS	SN	S	SIS	NS	SN	202	SN	38	SN	NS	7.1.7	SNS	24.9	NS	SN	18.9	SN N	23.4	NS	NS
	Potassium, Dissolved	NS	SN	SN	0 00	SN	NS	SN	SN	SN	SN	S.S.	SZ	4.6	NS	S S	o v	S S	NS	NS	6.6	SN	N 0	o v	SS	NS	SN	SN	S 0	S S S	SN	SN	SN	2 2	SN	SN	SN	200	SN	5.8	SN	SN	13.8 No	SNS	3.1	SN	SN	9 2	000	4	NS	SN
	Potassium	NS	SN	SN	SN	SN	SN	NS	SN	SN	NS	0.2 N.S	SN	4.7	NS	SN	2 02	SN	SNS	SN	6.2	SN	2 2	S S	SZ	SN	SN	SN	S	SN	SN SN	NS	SN	2 2	SN	SN	SN	202	SN	5.8	SN	SN	14.1	SNS SNS	2.7	NS	SN	6.7	Q V	4 1	NS	NS
	Magneslum, Dissolved	NS	SN	SN	S S S	SN	NS	SN	SN	SZ	SN	SN	SN	19	NS	SN	2 02	O W	SNS	SN	1.74	SN	2 2	2 2	SN	SN	SN	SN	SN	SN	NS.	SN	SN	202	SN	SN	SN	S S	SN	48	NS	SN	9.6	SN	54.4	SN	SN	47.3	SN SN	18.1	NS	SN
h) Gas Plant	Magnesium	SN	SN	SN	o v	NS	NS	NS	NS	NS	NS	881 SN	NS	18.9	NS	SN	2 0 0	S N	SN	SN	43.9	SN	S C	0 0	SN	NS	NS	NS	SN	S S S	NS	NS	SN	S S	SNS	SN	SN	200	S	49.6	NS	SN	43.1	0 00	52.2	SN	NS	49.1	NO NO	5 6	NS	SN
ChevronTexaco Eunice #2 (North) Gas Plant (mg/L unless noted)	Manganese, Nanganese, Dissolved	NS	NS	SN	2 2	SNS	SN	SN	NS	NS	NS	10.0V	NS	<0.01	NS	NS C	0.00	\$0.05	SN	SN	<0.01	SN	SS	0 0	SN	NS	NS	NS	SN	2 52	NS	SN	SZ	SN	SN	NS	SN	2 2	2 2	0.69	NS	NS	0.48	SS S	0.23	SN	NS	40.01	S S	2000	NS	SN
ChevronTexacc (mg	Manganese	NS	SN	SNS	0 00	SNS	NS	SN	NS	SN	SN	0.0V	NS	<0.01	NS	SN SZ	S S S	SZ	SN	SN	<0.01	SN	SN	ON WA	SN	SN	NS	NS	SN SN	S	NS	SN	SN	SN	SN	NS	SN	S S	SN	0.56	NS	NS	0.35	NS N	0.21	NS	NS	40.01	N.V.	200	NS	SN
	Calcium, Dissolved	SN	SN	200	S S S	NS	NS	NS	NS	SN	NS	425 NS	SN	34.9	NS	SN	2 0	SN	SN	SN	140	SN	2 2	0 0	SNS	SN	NS	SN	SN	2 5	SNS	SN	SZ	S S	SS	SN	SN	2 0	2 5	136	NS	NS	57.4	SN	102	SN	NS	80.3	SN	31.1	SN	SN
	Calcium	NS	SN	SNS	o v	SS	NS	NS	NS	NS	NS 121	/c/ NS/	SN	38.6	NS	SN	Q V	2 00	NS	NS	133	SN	2	g v	SN	SN	NS	NS	SN	2 00	SN	SN	SN	S	SN	SN	SN	2 2	SN	44	NS	NS	56.6	SNS	97.5	NS	NS	84.2	2 4	32.6	NS	SN
	Arsenic	NS	SN	2 2	o v	SN	NS	SN	SN	SN	SN	NS 0.01	SN	0.02	NS	SN SN	2 4	2 00	SNS	SN	<0.01	SN	2 4	2 2	SS	SN	NS	SN	SN	2 22	SS	NS	SN S	202	S	SN	SN.	2 2	SNS	0.01	NS	NS	500	SN SN	0.01	NS	NS	0.01	S S	2000	NS	SN
	Chromium, Dissolved	<0.01	0.02	0.02	5000	0.0	0.03	0.04	60.0	1.21	0.72	0.00	¢0.01	<0.01	0.03	0.03	200	0.13	0.02	20.0	0.01	0.01	20.07	0.0	40.0v	<0.01	<0.01	<0.01	000	0.00	\$0.01	<0.01	\$0.01	50.07	0.14	0.11	<0.01	20.03	200	<0.01	<0.01	<0.01	50.01	0.31	<0.01	0.1	0.11	0.12	\$0.03	40.0	0.58	0.57
	Hexavalent Chromium,	NS	0.019	SNS	0.0V	0.022	NS	0.02	SN	0.7	SN	0.93	NS	<0.005	0.016	SN SA	0000	NS	0,022	NS	0.006	0.018	SSS	20.0	<0.005	NS	<0.005	SN	40,005 NS	<0.005	SN	<0.005	NS	40.005 NS	0,11	NS	<0.005	NS NS	SN	<0.005	<0.005	SN	\$0.00	SN	<0.005	0.1	SS	0.12	SON	<0.005	0.81	SN
16	Chromium (Total)	SN	SN	SN	2 2	SN	SN	SN	SN	SS	SN	0.65 N.S.	SN	<0.01	SN	SN	O V	y Z	SN	SN	<0.01	SZ	S	0 0	SN	SN	SN	SN	SN	SN	SN	SN	SZ	202	SN	SN	SN	202	SN	<0.01	SN	SN	50.02	SNS	<0.01	SN	SN	0.12	S S	40.01	SN	SN
ARCADIS	Sample Collection Date	5/26/2005	1/3/2005	5/31/2005	5/27/2005	12/21/2004	6/6/2005	1/6/2005	6/3/2005	1/12/2005	6/1/2005	12/14/2005	6/2/2005	8/10/2005	12/28/2004	6/2/2005	1/6/2005	7/18/2005	1/3/2005	6/2/2005	8/16/2005	12/13/2004	6/3/2005	6/2/2004	12/6/2004	5/25/2005	12/7/2004	5/24/2005	12/13/2004	12/9/2004	5/24/2005	12/8/2004	5/24/2005	1/13/2005	1/5/2005	6/7/2005	12/21/2004	5/25/2005	5/31/2005	8/11/2005	1/12/2005	5/26/2005	4/12/2005	5/31/2005	8/18/2005	1/6/2005	6/8/2005	4277572005	5/24/2005	8/18/2005	1/10/2005	6/7/2005
-	Station Name	MW020	MW020A	MW020A	MW021	MW021A	MW021A	MW022A	MW022A	MW023	MW023	MW023A	MW023A	MW023A	MW024	MW024	MWO24	MANOSAA	MW025	MW025	MW025	MW026	MW026	MAYA027	MW028	MW028	MW029	MW029	MW030	MW031	MW031	MW032	MW032	MW033	MW034	MW034	MW035	MW035	MW036	MW036	MW037	MW037	MWW03/	MW038	MW038	MW039A	MW039A	MW039A	MW040A	MW040A	MW041A	MW041A

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

12/9/2004 12/9/2004 12/9/2005 1/2/2005 1/2/2005 1/2/2005 1/1/2005 1/2/2005	Station Name	Sample Collection Date	Chromium (Total)	Chromium,	Chromium, Dissolved	Arsenic	Calcium	Dissolved	Manganese	Dissolved	Magnesium	Dissolved	P P	Dissolved	Dissolved	- 1	Dissolved	iron		Dissolved
	, se	40000004	UZ	0.053	0.08	SN	NS	SN	NS	SN	NS	SN	SN	SN	NS	SN	SN	SN	SN	S
	¥71	6/3/2/04	S V	SNS	0.07	NS	SN	NS	SN	SN	SN	SN	SN	NS	NS	SN	SN	SN	200	2
	5 6	12/28/2004	S N	<0.005	<0.01	NS	NS	NS	NS	SN	SN	SN	SN	SN	NS	SN	S	2 2	2 2	2 2
	3,5	5070005	S S S	SN	\$0.0v	SN	NS	NS	SN	SN	SN	SN	NS	SS	SN	SZ	SS	2 2	2 2	2 2
	2 2	1/5/2005	SN	0.67	0.72	NS	SN	NS	SN	SN	SN	SN	NS	SN	SN.	2 2	2 2	0 0 0	2 0	2 2
		6/9/2005	SN	NS	0.41	NS	SN	NS	NS	NS	SN	NS	NS	SN	SN.	2	2	2 4	014	2 02
	5	1/12/2005	SZ	<0.005	0.31	SN	SZ	SN	SN	SN	SN	SN	SN	SZ	S C	2	2 2	02	2 2	2 2
	45	5/27/2005	SN	SN	¢0.04	NS	SN	SN	NS	SN	SN	SN	SN	S.	2	2 2	2 4	202	S S	Q V
	200	1/12/2005	SN	<0.005	0.02	NS	SN	SN	SN	SN	SN	SN	SNS	200	2	0 4 2	2 2	2 4	2 00	y y
Column C	9	5/26/2005	SN	NS	0.02	SZ	SN	NS	SN	SS	SN	SN	SN	2	2	2 2	0 0	202	2 0	2 2
	PA P	1/11/2005	SZ	<0.005	0.18	SN	SN	SN	SN	SN	SN	SN	SN	SS	SN	2	2 2	200	2014	2 2
Control Cont	200	5/24/2005	U Z	S.N	0.23	SN	NS	SN	SN	SN	NS	SN	NS	NS	SN	2	2	S C	2 4	2 2
Figure F	5 5	41510005	2 2	0.47	0.21	SZ	SN	SN	NS	SN	SN	SN	SN	SN	SZ	SN	SS	2	2 2	2
This color		2007/6/1	2 2		0 10	U.N	SN	SNS	SN	NS	SN	SN	SN	NS	NS	SN	NS	SN	SS	2
Column C		GU0Z/9/9	SS.	2	0.00	200	273	280	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.01	55.2	54.6	7	7.4	35.7	434	.451	< 1.0	<0.40	<0.40
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	.7	8/11/2005	0.18	0.21	800		217	2014	0.00	UN	UZ.	SZ.	NS	SN	SN	SN	SN	NS	NS	SZ
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	18SA	1/6/2005	SN	0.22	0.18	2	2	2	2 2	2 4	202	SIN	S. N.	SN	SN	SN	SN	SN	SN	NS
This control of the	t8SA	6/7/2005	NS	NS	0.16	Ŝ	2	2	2	2	2 2	202	UN	V.V	SN	SN	NS	NS	NS	SN
Figure F	19SA	1/6/2005	NS	0.065	0.07	NS	S	2	2	ON S	2	2014	ON O	2/2	O Z	V.N	SN	NS	NS	SN
Thirting column Thirting c	19SA	6/6/2005	SN	SN	90.0	SN	SN	NS	SN	SS	22	2 2	2 4	2 2	2 2	ON N	O N	SZ	SN	SN
Heart Course Hear	SOSA	1/5/2005	NS	0.15	0.2	SN	NS	NS.	SN	SN	SS	2	2 2	2 2	2 2	202	S V	S S	SN	SN
1,11,12,000 NS NS NS NS NS NS NS	SOSA	6/8/2005	SN	SN	0.18	NS	NS	SN	NS	SN	SS	SZ.	2	2	200	2 4	2 2	S S S	UZ	02
1,11,12,1003 NS NS NS NS NS NS NS N	51SA	1/11/2005	SN	0.56	0.7	SN	SN	SN	SN	SN	SN	SZ	n c	200	0 0	0 0	2014	S N	Q V	SN
Thi 51SA	6/7/2005	SN	SN	0.67	SN	NS	SN	SN	SN	SN	SN	2	2	0 0	2 2	2 2	2 2	Q V	UN N	
1,11,12,000 N.S. 0.03 0.03 0.03 N.S.	ASC	1/11/2005	NS	<0.05	0.4	SN	SN	SN	SN	NS	NS	SN	2	2	2	2 2	2 4	2 01/2	ON	2 0
Thirticols N.S. Color N.S.	A20	6/1/2005	SN	NS	0.38	SN	SN	SN	NS	SN	SN	NS	SN	S	S.	2	0 2	2 2	2014	2 2
Figure F	384	1/11/2005	SN	<0.005	<0.01	SN.	NS	SN	SN	SN	SN	SN	SN	S	2	2	2 2	2 2	201	2 2
OFFICIONO NS	45E	6/1/2005	SN	SN	<0.01	SN	SN	SN	NS	SN	SZ	SN	SN	SN	SN	2	S. S.	2 2	2 4	2 2
The column The	ASA	1/10/2005	SN	0.27	0.2	SN	SN	SN	SN	SN	SN	NS	SN	SN	S	2 2	2 2	202	2 2	2 02
HIGODOS NS NS <t< td=""><td>4SA</td><td>6/7/2005</td><td>NS</td><td>SN</td><td>0.25</td><td>SN</td><td>SN</td><td>SN</td><td>SN</td><td>SN</td><td>NS</td><td>SN</td><td>200</td><td>2</td><td>2 2</td><td>2 2</td><td>ON ON</td><td>Q V</td><td>2 4</td><td>S N</td></t<>	4SA	6/7/2005	NS	SN	0.25	SN	SN	SN	SN	SN	NS	SN	200	2	2 2	2 2	ON ON	Q V	2 4	S N
Thirtipoope Nat	15.5A	1/6/2005	SN	0.22	0.19	NS	NS	SN	SN	SN	SN	NS	SN	S	2	2 9	S	0 4	202	2/2
11/10/2006 NS NS NS NS NS NS NS N	55.A	6/7/2005	SN	SN	0.18	SN	SN	SN	SN	SN	SN	SN	SN	2	200	2	2 2	2 2	200	Q V
1216/2004 NS NS NS NS NS NS NS N	6SA	1/11/2005	NS	0.06	0.38	NS	NS	NS	NS	SN	NS	SN	SS	2	2	2 2	2 2	202	202	Z V
12,000,000 NS NS NS NS NS NS NS	6SA	6/6/2005	SN	SN	0.37	SN	SN	NS	SN	NS	SN	SS	S	2	SN	2 2	SN	2 0 0	2 00	S S
1,2,2,2,2,2,3,3,4,4,4,4,4,4,4,4,4,4,4,4,4	7SA	12/15/2004	SN	<0.005	<0.01	NS	SN	SN	SN	SN	SN	SN SI	2	2	2 2	2 2	2 0	S S	SN	SN
Fig. 2005 NS NS NS NS NS NS NS N	7SA	6/1/2005	NS	SN	<0.01	NS	SN	NS	NS	SS	SS	SN	2	2 2	2 2	2 2	2 2	S N	S.N.	ď.
6HR2005 NS NS <t< td=""><td>8</td><td>1/3/2005</td><td>SN</td><td>0.17</td><td>0.41</td><td>SN</td><td>SN</td><td>SN</td><td>SN</td><td>SN</td><td>SN</td><td>SN.</td><td>2</td><td>200</td><td>2 4</td><td>2 2</td><td>S V</td><td>2 2</td><td>O V</td><td>SN</td></t<>	8	1/3/2005	SN	0.17	0.41	SN	SN	SN	SN	SN	SN	SN.	2	200	2 4	2 2	S V	2 2	O V	SN
Fig.	8	6/8/2005	SN	SN	0.43	SN	SZ	SS	SN	SN	SN	SS	SS.	2	202	200	280	0.1.0	<0.40	<0.40
Table 2004 NS	8	8/16/2005	1.39	1.1	1.36	<0.01	520	200	<0.01	40.04 40.04	274	263	13.5	14.4	30.4	9 2	3 2	2 0	NSN	S N
Fig2005	0	12/14/2004	SN	0.14	0.08	NS	SN	SN	SN	SN	SN	200	2	S	22	2 2	2 2	y Z	U.Z	S Z
1442006 NS NS NS NS NS NS NS N	0	6/8/2005	SN	SZ	0.02	SN	SN	SN	SN	SN	SN	SN.	SS	2 2	200	C V	2 2	2 12	NA NA	S S
6/30/2006 NS	0	1/4/2005	SN	0.01	0.02	SN	SN	SN	NS	NS	NS	SZ	2	2	2 2	2 9	2 2	2 2	UN V	SN
9116/2006 COOT COOD COOT		6/30/2005	SN	SN	<0.01	SN	SN	SS	NS	SN	SN	SN	SS.	25	727	290	97c	201	0700	<0.40
1/1/2006 NS		8/16/2005	<0.01	<0.005	<0.01	<0.01	454	467	0.04	0.03	222	231	12.1	12.3	177	607	0/7	2.014	UN	Q N
6/8/2006 NS <		1/11/2005	SN	18	3.69	SN	. SN	SN	SN	NS	SN	SZ S	2	2 2	SN	2 2	SN N	S N	2 V	S N
12021/2004 NS NS NS NS NS NS NS N	75	6/9/2005	NS	SN	3.86	SN	SN	SN	SN	NS	SN	SZ.	2	2 2	2 2	2 2	S N	UZ VZ	UZ	y V
5/2/2/2006 NS	2A	12/21/2004	SS	<0.005	<0.01	SN	NS	SN	SZ	SN	SN	S	2	2	2 2	0 2	SIV	Q V	UN	S N
T2/14/2004 NS	32A	5/25/2005	NS	NS	<0.01	SN	SN	NS	NS	NS	SN	SN	SS	2	200	2 4	202	2 2	200	2 2
5/24/2005 NS	3A	12/14/2004	NS	<0.005	<0.01	SN	SN	SN	NS	SN	SN	NS	SN	SS.	25	200	2 2	2 2	200	2 2
10/20/2004 0.08 0.095 0.01 333 NS <0.05 <0.05 10 NS 89 NS N	AE.	5/24/2005	SN	SN	<0.01	SN	SN	SN	SN	SN	SN	SN	SN	2	200	25	2	25	2	2
12/9/2004 0.08 0.092 0.13 <0.01 321 281 <0.01 <0.01 <0.01 321 281 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	ASA	10/20/2004	0.08	0.095	0.13	<0.01	333	SS	<0.05	<0.05	170	SN	9.6	SN	SS	88	SS			
1/1/2/2005 0.17 0.2 0.17 <0.01 2.86 2.59 1.75 <0.01 113 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10	ASA	12/9/2004	0.08	0.092	0.13	<0.01	321	281	<0.1	<0.1	168	144	×100	×100	35.2	cgc	282	7:1	9 5	2 4
2/2/2005 0.13 0.055 0.21 <0.01 305 282 0.00 <0.01 154 114 114 12 36.8 641 628 31/2005 0.07 0.15 0.01 <0.01	ANA	1/12/2005	0.17	0.2	0.17	<0.01	268	259	1.75	<0.01	120	113	<10.0	<10.0	30.2	800	250		24.0	200
3/1/2005	ASA	2/2/2005	0 13	0.055	0.21	<0.01	305	282	0.08	<0.01	154	146	11.4	12	39.8	40	979	2,	1,0	2
3124/2005 0.06 0.041 0.1 <0.01 365 246 0.04 <0.01 172 133 12 11 37.1 559 553 4127/2005 0.16 0.24 0.17 <0.01 361 336 0.07 <0.01 123 116 10.4 9.4 27.8 71 692 4127/2005 0.16 0.17 <0.01 361 336 0.07 <0.01 123 116 10.4 9.1 33 847 613 5124/2005 0.15 0.17 <0.01 0.17 <0.01 0.17 <0.01 0.18	ASA V	3/1/2005	0 07	0.15	0.11	40.01	312	292	0.03	<0.01	167	119	9.6	9.3	30.5	986	886		8.0	000
4/27/2005 0.16 0.2 0.18 <0.01 361 336 0.07 <0.01 123 116 104 94 27.8 701 692 6.24/2005 0.16 0.17 <0.01	484	3/24/2005	90 0	0.041	0.1	<0.03	365	246	0.04	<0.01	172	133	12	1	3/.1	628	633	, ,	8	9 9
S/24/2005 0.15 0.16 0.17 <0.01 418 287 0.04 <0.01 127 118 104 91 33 847 613 S/24/2005 0.15 0.16 0.17 <0.01	200	4/27/2005	0.16	0.0	0.18	<0.01	361	336	0.07	<0.01	123	116	10.4	9.4	27.8	707	269	v	40.	20.40
6/78/2005 NS 0.24 0.13 <0.1 144 120 0.5 <0.01 17.14/2005 0.6 0.24 0.13 <0.1 144 172 0.5 <0.01 17.34 6.5 6.5 4.93 40.9 30.1 26.7 7/14/2005 0.6 0.24 0.13 <0.1	ASA	5/24/2005	0.15	0.16	0.17	40.01	418	287	0.04	<0.01	127	118	10.4	9.1	33	847	613	v 1.0	1.18	20.40
7/14/2005 0.6 0.24 0.13 <0.1 144 120 0.5 <0.01 73.4 62.5 6.5 4.93 40.9 301 26/70 17/14/2005 0.6 0.24 0.15 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.	10 V	6/28/2005	S S S	SZ	0.13	SN	SN	SZ	SN	<0.01	SN	SN	SN	SN	SN	NS	SN	SN.	2	<0.40 5
570 158 650 570	¥04	7/14/2005		200	213	20.4	144	120	5.0	×0.01	73.4	62.5	6.5	4.93	40.9	301	267	< 1.0	1.75	<0.40
200 200 200 200 200 200 200 200 200 200	MW064SA	1114/2003	0.0	77.7	-															Ç (

Groundwat
ChevronTexaco E

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Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eurice #2 (North) Gas Plant
(mg/L unless noted)

9	I	П	Т	Т	Т	П	_1	7	П	7	Т	7	Т	Т	Γ	П	Т	Т	Т	Т	Т	Т	Т.	Т	T	Γ	П	Т	Т	7	Т	Т		П	Т	Т	П	П	Т	Т	Τ		П	_	Т	丁	Т	Т	П	ГТ	\top	\neg
Iron, Dissofved	SN	<0.40	SN	S S	SNS	SN	<0.40	SN	SN	SN	S	N V	2 2	SS	SN	SN	SN	2	SN	Se	2	2	2 2	SN	SN	SN	SN	SN	SN	40.40 VIS	2 2	SN	SN	SN	SN OS	SN	NS	SN	2 2	SZ	SN	SN	SN	SN	SS	S S	S S	60.1	4.29	1.96	6.91	6.48
Iron	SN	<0.40	SN	2 0	SN	SN	<0.40	NS	SN	SN	SS	SN SN SN SN SN SN SN SN SN SN SN SN SN S	S S	NS	NS	SN	SN	S	SN	SN	2 2	2 2	Ç V	SN	NS	SN	NS	SN	SN	<0.40	2 42	NS	SN	SN	SN S	SN	NS	SN	2 2	SN	NS	SN	SN	SN	S S	ρ	2 2	¢0.1	8.2	4.43	9.28	9.63
Ferrous	NS	< 1.0	SN	S Z	SN	NS	1.8	SN	NS	SN	SN	SN	2 2	SN	SN	NS	SN	SS	SN	SN	0.0	2	S S	SN	SN	SN	SN	SN	SN	۷ ا ه	Q V	SN	SN	SN	SN V	SN	NS	SN	2 2	SN	SN	SN	SN	SN	SS	SN	SN	120	4	× 1.0	6.9	4.3
Sodium, Dissolved	NS	384	SN	S S	SNS	NS	409	SN	SN	SS	SS	2 0	2 2	SN	SN	NS	SN	S S	SN S	SN	2	2 2	02	S S	SN	NS	SN	SN	NS	338	2 2	SNS	NS	SN	SN	NS	NS	SN	S S	2 5	NS	SN	SN	SN	SN	S	SN	NS	588	391	370	374
Sodium	NS	422	SN	S S	SNS	NS	526	NS	SS	SN	SN	2 2	2 2	SN	SS	SN	SS	SS	SN	SN	200	2 2	2 2	2 V	NS	NS	SN	SN:	SN	382	2 2	SS	SN	SN	310 310	SN	NS	SN	2 2	SS	SN	SN	SN	SN	SN	S UZ	S N	227	351	420	370	378
Silicon, Dissolved	SN	30.3	SN	2 2	SN	NS	30.1	NS	SN	SS S	SN	S S	2 4	SN	SN	NS	SN	SS	SN	SN	2	25	02	S S	NS	SN	SN	SN	NS	26.5	202	NS	NS	SN	NS 47.9	SN	NS	SN	2 2	SZ	SN	SN	SN	SN	SN	S N	SN	SN	29.9	35.8	25.2	33.1
Potassium, Dissolved	SN	10.8	SS	n u	SN	SN	10.9	SN	SN	SN	SN	S 2	2 2	NS	NS	NS	SN	SN	SN	SN	SN	2 2	202	2 2	NS	SN	SN	SN	SN	6.2	2 0	SN	SN	SN	NS	SN	SN	SN	2 2	S S S	SN	SN	SN	SN	SN	N N	SN	NS	84	67.3	47.4	909
Potassium	NS	10.5	SN	2 2	SN	NS	11	SN	SS	SN	SN	202	2 0	SN	SN	NS	SN	SN	SN	SN	S	2 5	202	S N	SNS	NS	NS	SN	SZ	5.5	C U	SN	SN	SN	NS P 2	SN	NS	SN	2 2	SN	SNS	NS	SN	SN	2	2 0 0	S	357	117	67.2	49.5	99
Magnesium, Dissolved	SN	158	SN	N U	SN	NS	187	NS	SN	SN S	SN S	202	2 02	NS	SN	NS	SN	SS	SN	SN	200	2 2	202	S S S	SN	SN	NS	SN	SN	127	0 0	SN	SN	SN	SNS	NS	NS	SN	200	SN	NS	SN	SN	SS	SS	N N	S	SN	111	156	124	146
Magnesium	NS	158	SN	S S	S	NS	196	NS	SS	SN	SN	N N	S S S	SN	SN	NS	SN	SN	SN	SN	200	202	022	S N	SN	SN	NS	SN	SN S	126	2 0 0	SN	NS	SN	NS SB 8	SN	SN	SN	2 2	2 82	SN	NS	SN	SN	SN	NO NO	2 00	132	137	155	126	152
Manganese, f	NS	<0.01	S	N V	SNS	SN	<0.01	SN	NS	SN	SN	S S	C V	NS	SN	SN	SN	SZ	SN	SS	200	200	SN NS	2 0 2	SN	NS	NS	NS	SN	1.38	200	NS	SN	SN	SS CS	SN	NS	NS	2 2	S	SN	NS	SN	SN	SN	000	2 5	2.87	1.94	1.47	0.98	1.06
Manganese	SN	<0.01	SN	S S S	SN	NS	<0.01	SN	NS	SN	NS.	S	Ç V	NS	SN	NS	SN	SN S	SN	SN	S	200	2 2	2 2	SN	NS	NS	NS	SN	1.3	200	SN	SN	NS	NS CO	NS	NS	SN	2 2	2 5	SN	SN	SN	SN	SN	N N	S	3.41	2.3	1.35	96.0	1.12
Calclum, Dissolved	SN	350	SN	S V	SN	SN	449	SN	SN	SN	SN	S S	o v	SNS	SN	NS	SN	SS	SN	SS	SS.	200	200	2 2	SN	SN	NS	NS	SN	199	0 0	SN	SN	SN	NS 178	SN	NS	SN	2 2	SS	SN	NS	SN	SS	SN	N N	S S	SN	482	597	540	586
Calcium	SN	389	SN .	S	SNS	NS	999	NS	SN	SN	SN	2 2	o v	SS	NS	NS	SN	SN	SN	SN	200	2	2 2	2 2	SN	NS	NS	NS	SS	230	0 0	SS	SN	SN	NS 114	SN	NS	SN	200	SN	NS	NS	NS	SN	SN	2 2	SS	826	599	630	550	603
Arsenic	NS	<0.01	SN	S S	SNS	NS	<0.01	NS	SN	SN S	SN	2 2	0 0	SS	NS	NS I	SS	S	SN	SN	2 5	2 5	2 2	S N	SN	SN	SN	SN	SN	\$0.01	Q V	SN	SN	SN	S C	NS	NS	SN	2 2	SN	NS	SN	NS	SN	S	S N	SN	\$0.01	900.0	<0.01	0.00	40.07
Chromium, Dissolved	0.04	0.03	0.22	S V	SN	NS	0.18	SN	SS	¢0.01	40.01	20.07	0.00	<0.01	<0.01	<0.01	<0.01	<0.01	SN	SN	200	2 5	S S	S S	0.02	SN	NS	SS	SN	40.01 NS	200	SN	SN	S	SNS	NS	NS	<0.01	5 6	000	40.01	<0.01	<0.01	<0.01	40.01	20.02	20.00	0.08	0.01	0.01	0.02	0.07
Hexavalent Chromium,	0.02	0.043	0.23	71.0	60.0	0.2	0.32	0.1	0.04	<0.005	NS	50.00	50 05	SN	<0.005	NS	0.005	SN	0.12	0.11	SNS	0.17	0.033	0000	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	SS	SN SN	<0.005	NS	<0.005	NS	<0.005	NS 00 00	SSS	40.1	<0.005	<0.005	40.005	<0.005
Chromium (Total)	SN	0.03	SN	202	SN	SN	0.18	SN	SN	SN	SN	202	ON V	SN	SN	SN	SN	SN	SN	SN S	20	200	202	S N	SN	SN	SN	SN	SN	×0.01	SN N	SN	SN	SN	NS VO 03	NS	SN	SN	2 0	SN	SNS	SN	SN	SN	SN	NO.	S	0.1	0.016	<0.01	0.02	0.02
Sample Collection Date	12/15/2004	6/2/2005	1/10/2005	1/26/2005	3/30/2005	4/25/2005	5/25/2005	6/30/2005	7/18/2005	12/16/2004	6/1/2005	12/9/2004	12/9/2003	5/26/2005	12/9/2004	5/24/2005	12/15/2004	6/1/2005	9/14/2004	10/5/2004	10/6/2004	10/20/2004	11/4/2004	12/2/2004	1/6/2005	2/7/2005	3/7/2005	4/14/2005	5/10/2005	6/2/2005	12/20/2009	1/26/2005	2/23/2005	3/30/2005	5/25/2005	6/30/2005	7/18/2005	12/16/2004	12/7/2004	5/31/2005	12/7/2004	6/1/2005	12/7/2004	6/1/2005	12/8/2004	12/8/2004	6/1/2005	10/10/2004	11/22/2004	1/5/2005	2716/2005	3/15/2005
Station Name	MW065SA	MW065SA	MW066SA	MW067SA	MW067SA	MAYOBB	MWD69	90MW	MW070	MW070	MW070A	MW070A	MW071SA	MW071SA	MW0/1SA	MVVO/15A	MAYO71SA	MWO71SA	MW071SA	MW071SA	MW071SA	MW071SA	MW071SA	MW071SA	MANAZOSA	MW072SA	MW072SA	MW072SA	MW072SA MW072SA	MW072SA	MW072SA	MW073SA	MVUVSSA	MW074SA	MW075SA	MW075SA	MW076SA	MW076SA	MWO//SA	MANAMOTACA	MW078SA	MW079SA	MW079SA	MW079SA	MW0/9SA	MW079SA						

Groundwater Analytical Results

Table 4

Iron, Dissolved 0 0 0 0 0 0 40 0 0 0 40 0 0 0 0.6 0.59 <0.40 <0.40 0.65 0.93 1.55 1.64 1.60 1.84 1.5.7 Fon Ferrous Sodium, Dissolved NS 760 738 616 616 664 59.8 757 800 1510 1510 648 668 825 66.7 Sodium 651 629 699 631 774 610 792 750 927 1520 643 683 946 61.1 Silicon, Dissolved 45.4 4.33 4.33 Potassium, Dissolved 88 83 83 83 Potassium Magneslum, Dissolved 146 158 158 158 158 158 158 148 N 105 108 141 148 N NS 430 178 176 206 206 220 227 Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted) Magnesium 145 1131 1107 107 108 108 189 310 190 Manganese, Dissolved 1.72 13.3 1.05 54.4 50.01 1.66 13.8 000 Manganese 000 Calcium, Dissolved 6614 6622 936 751 NS 1020 2000 11120 6623 664 664 662 710 710 NS NS 187 487 487 487 487 486 Calcium 433 377 364 363 1430 2130 22930 438 438 438 438 1410 540 540 Arsenic Chromium, Dissolved Hexavalent Chromium, Dissolved <0.005 40.0540.00540.00540.00540.00540.00560.00560.00560.00560.005 Chromium (Total) 60.05 60.05 60.02 60.02 60.02 60.02 60.02 60.02 60.03 60 0.09 0 02 Sample Collection Date 6/20/2005 7/20/2005 8/25/2005 10/11/2004 11/23/2005 1/27/2005 4/18/2005 Station Name

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

٥	Τ	Т	Τ	Τ				1	Т	1	Т	Τ	Τ	Π	П	П	7	7	Ţ	Т	Т	Τ	Т	Т	Т	Τ	Τ		П	\neg	7	٦	Т	1	Т	Т	Γ	Γ	П	7	T	Т	T	Т	T	Γ	Τ	П	\neg	7	7	Т	Т	П	П
Iron, Dissolved	SIN SIN	\$ 0 A	00	<0.40	<0.40	<0.40	<0.40	<0.40	40.40 40.40	0.40	9 9	SN	<0.40	<0.1	<0.40	<0.40	Ç.	Ç.	0.42	\$ 0.40 6	0.00	300	2 5	9 9	\$ 0 AO	<0.40	<4.0	SN	216	585	SN	724	900	482	464	497	36.7	<2.0	<4.0	SN	SN	2 5	2	1	<0.40	SN	1.35	3.6	<0.40	3.14	20.02	7 03	9.38	3.17	\$ 0.
Iron	Q V	0 40	0.1	<0.40	0.44	<0.40	0.41	<0.40	0.40	04.0	9 9	SN	<0.40	0.1	<0.40	<0.40	0.2	0	Ç0 40	0.40	\$0.40 \$4.04	- 20	20.00	40 A	040	0.94	<0.40	SN	259	584	999	695	942	826	742	626	44.2	<2.0	<4.0	SN	2	2	Į.	4	1.27	SN	1.51	3.69	1.96	3.13	3.77	7.16	7.66	6.07	60.1
Ferrous	,	2 0	× 10	1.4	1.2	< 1.0	1.4	۲,	·	0.10	2 4	× 10	× 1.0	2.6	۸1	< 1.0	2.3	× 1.0	v 1.0	0.1	, ,	0.1	2	2 0	v 10	× 1.0	< 1.0	120	NS	380	220	400	830	90	3 6	884	45	730	570	SN	SZ	2	2 0	SN	× 1.0	SN	× 1.0	2	× 1.0	۷10	v	4 t g	6.8	7.5	× 1.0
Sodium, Dissolved	ON N	200	SN	785	782	782	756	812	853	910	751	SNS	765	SN	857	852	SN	SN	SNS	67/	740	017	760	691	964	785	705	NS	SN	NS	NS	260	452	24/	4/0	441	502	46.7	419	SN	S	2 2	2 2	S S	SNS	NS	SN	547	615	682	669	929	733	959	SN
Sodium	ų.	875	930	765	787	833	781	206	768	919	78.0	SS	749	848	887	709	989	250	710	808	080	57	202	740	625	707	741	SN	286	542	581	88	450	707	1878	433	504	43.9	415	SN	SN	2 3	100	1150	23	SN	820	556	602	675	727	12,02	44	617	423
Silicon, Dissolved	O N	27.4	SN	26.8	30.9	33.1	28.6	34	28.1	30.4	32.8 32.6	SNS	16.2	NS	28.7	31.7	NS	NS	SN	30.6	607	4 1	35.7	207	31.6	39.4	33.7	NS	SN	NS	SN	44	39.5	23.3	200	44.7	33	48.8	46.5	SN	2 2	2 2	2 4	SS	SN	NS	NS	37.6	34.5	32	20.9	40.4	42.9	38.6	NS
Potassium, Dissolved	John Children	17.3	SN	11.8	11.8	13	11.5	11.9	10.1	12.2	100	SN	12.7	NS	13.3	13.3	NS	NS	SN	200	10.	2 1 2	10.7	10.4	15.2	15.3	13	NS	NS	NS	SN	<1000	281	168 280	200	348	49	72	610	SN.	S S	000	200	SN	NS	NS	NS	<100	15	, ,	- 41.	10.7	11.7	10.7	NS
Potassium P	914	16.5	2.1	1.8	2.2	17	1.5	2.8	1.5	5 6	7 0	NS NS	1.8	4.4	3.8	2.8	2.5	0.7	5.3	100	1,1	18	0.4	5	4 4	4.5	4.6	NS.	7.3	29	52	000	78	88	2 2	24	28	38	-67	S	20	2 -	وي	28	2.4	4S	4.7	8	12	9 ,		25	-	10.9	9.6
ļ													-	_	-					*	+	1		1					2		_	₹	-						4			1	-	+		_	-	۷		- -				¥ }	<u>-</u>
Magnesium, Dissolved	OJA	282	SN	141	146	169	140	144	125	197	125	SN	156	SN	192	177	SN	SN	SN	185	200	180	1/3	2 2	161	158	178	SN	SN	SN	SN	540	459	236	334	353	125	44.2	391	S	2 2	2 2	2 2	S	SN	NS	SN	165	174	134	130	134	148	174	SN
Magnesium	O N	250	208	140	144	181	142	170	142	13/	133	SN	148	227	194	171	172	136	153	707	200	189	1/0	105	155	155	154	SN	293	554	557	290	461	263	307	392	129	41.6	352	SN	S	150	200	152	157	NS	148	168	170	135	123	134	141	164	90.7
Manganese, Dissolved	O IA	2007	<0.05	<0.01	<0.01	<0.01	0.02	0.02	0.05	0.03	90.0	SN	0.02	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	0.01	0.39	50.03	1.07	1 38	5 +	1.14	1.07	NS	<0.05	72.8	2.71	63.8	<0.1	53.2	34.3	31.9	4.82	45	37.6	SN	S S	000	7.0 V	80	0.64	SN	SN	0.85	<0.01	0.93	1.02	124	1.77	1.77	90.0
Manganese	Ų,	2003	<0.05	<0.01	<0.01	<0.01	0.02	0.04	0.04	0.03	0.02	NS	0.02	<0.05	<0.01	<0.01	<0.05	<0.05	0.01	0.02	1 80	89.5	1.04	141	111	1.11	1.09	NS	<0.05	73.4	64.7	62.4	<0.01	62.3	60.7	38.2	5.07	43.2	33	SN	200	200	2 02	0.81	0.69	SN	0.7	0.88	0.82	96.0	1 27	126	1.44	1.82	90.0
Calcium, Dissolved	SIA	535	NS	330	315	324	328	313	370	343	326	SN	328	NS .	467	459	SN	SN	SN	547	543	233	080	323	417	495	432	NS	NS	SN	SN	3280	4060	7390	2190	2410	681	379	3470	SN	SN 92	SN SN	2 00	S	SN	NS	SN	589	716	678	577	544	589	537	NS
Calcium	ON	487	420	333	339	349	342	330	333	2402	330	SN	322	491	460	383	452	400	200	2002	070	555	24.4	518	400	449	463	NS	1460	3010	3430	3720	4050	3710	2940	2830	719	405	2800	SN	2 2	202	SN	1010	740	SN	670	597	702	664	597	609	595	502	468
Arsenic	ON	200	<0.0>	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.00	200	SN	\$0.01	<0.01	<0.01	<0.01	\$0.04 10.04	\$0.01	0.03	<0.01	50.0	0.00	2000	5 5	5 6	100	<0.01	SN	<0.01	0.1	٥ <u>.</u>	6. 1.	<0.01	6		00	₹0.05	<0.05	<0.1	SN	SS	200	J VIV	0 0 V	40.01	NS	<0.01	<0.01	0.01	000	000	200	0.00	<0.01	<0.01
Chromium, Dissolved	OIN	13	<0.05	0.14	0.09	0.08	0.01	0.14	0.12	0.0	233	SN	0.02	<0,05	0.01	0.01	4.29	3.66	5.06	4.63	3.78	1.73	6.0	0.44	690	0.33	0.37	NS	0.37	1.2	0.05	0.8	7.6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	1.2	0.52	0.68	7.0	40.01	LO:02	302	NO.5	2.01	1.58	SN	0.92	0.13	0.3	0.05	0.00	900	0.1	0.19	0.85
	Dissolved	145	0.01	0.099	<0.1	0.006	0.017	0.085	0.05	40.0	0.00	SN	0.022	<0.005	0.01	0.022	1.8	1.8	5	2	3.2	2.1	0.4/	50.000	12.0	<0.02	<0.02	SN	<0.05	<0.1	۲۷	<0.01	<0.05	40.05 00.05	30.00	<0.05	<0.1	<0.05	<0.05	<0.005	200	3.2	2 4	90	2	1.4	<0.02	<0.005	<0.005	<0.005	0.00	5 6	<0.005	<0.01	0.47
Chromium (Total)	012	N3	<0.05	0.09	0.07	0.1	0.01	0.03	0.07	0.14	± ,	SN	0.03	<0.05	0.02	0.01	4.23	3.82	4.62	4.78	3.97	2.23	2.03	1,50	29	1.73	1.49	NS	0.53	1.1	-	6.0	0.76		200	4	9.0	0.7	9.0	SN	2 2	200	Sylv	2.11	1.81	SN	0.94	0.19	0.08	0.08	90.0	20.0	60.0	0.2	1.02 J
Sample Collection Date	7/40/2008	8/24/2005	10/20/2004	12/9/2004	1/13/2005	2/2/2005	3/1/2005	3/24/2005	4/27/2005	5/24/2005	2/18/2005	7/19/2005	8/24/2005	9/14/2004	1/13/2005	6/2/2005	9/14/2004	10/5/2004	11/9/2004	12/16/2004	2002000	2/8/2005	3/8/2005	5/11/2005	6/7/2005	7/6/2005	8/2/2005	9/13/2004	9/18/2004	10/7/2004	11/10/2004	12/28/2004	1/19/2005	3/10/2005	3/10/2003	5/17/2005	5/31/2005	7/12/2005	8/9/2005	1/13/2005	6/1/2005	9/16/2004	10/6/2004	10/7/2004	11/17/2004	12/20/2004	12/29/2004	1/25/2005	2/9/2005	3/9/2005	5/12/2005	6/8/2005	7/7/2005	8/8/2005	9/9/2004
Station Name	A 30 A 30 A 30 A	MANAGES	MW085SA	MW085SA	MW085SA	MW085SA	MW085SA	MW085SA	MW085SA	MWU85SA	MANAGESA	MW085SA	MW085SA	MW086SA	MW086SA	MW086SA	MW087A	MW087A	MW087A	MW087A	MWUSYA	MWU8/A	MW00/A	MWV06/A	M/M/087A	MW087A	MW087A	MWO88M	MWOBBM	MW088M	MW088M	MWOSBM	MWOBBM	MWOSBM	MAYOSOM	MWOSBM	WW088M	MW088M	MW088M	RowlandWW	Kowlandvvvv	200/0/2	30000	3W002	RW002	3W002	3W002	RW002	RW002	30002 30002	30000	300003 300002	3W002	RW002	3W003

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice 42 (North) Gas Plant
(mg/L unless noted)

,,	_		_		r-	_	_			_	_	_		_	·	_		_	_	_	_	r-	. –	_	_	_	_
lron, Dissolved	<0.1	<0.40	96.0	4.23	10	15.4	0.82	1.18	-	2.02	SN	9.93	166	54.7	78.1	SN	81.1	65.1	46.9	30.6	68.3	43.2	48.1	51.5	47.1	SN	NS
lron	<0.1	<0.40	8.0	4.2	11.7	24.7	11.3	12	14.2	12.6	SN	23.5	166	80	82.1	SN	76.8	78.5	54.4	2.91	66.1	46.7	49.3	51.8	42.7	NS	SN
Ferrous	<1	۷ ر	<1	3.2	14	28	5.3	< 1.0	< 1.0	SN	31	16	200	54	80	SN	62	28	42	28	69	36	40	49	34	SN	SN
Sodium, Dissolved	SN	SN	369	413	448	382	325	309	332	316	SN	320	SN	NS	SN	SN	158	SN	SN	NS	SN	SN	SN	SN	SN	SN	NS
Sodium	350	437	362	531	478	395	314	311	339	308	SN	347	168	260	25.4	SZ	197	7.0	101	6.9	126	164	134	125	106	SN	NS
Silicon, Dissolved	SN	NS	50.2	41.6	32.4	37.8	36.7	34.9	34.9	34.8	SN	38.1	SN	SN	SN	SN	39	SN	SN	SN	SN	SN	SN	SN	SN	SN	NS
Potassium, Dissolved	SN	SN	<100	11	10.8	12	8.5	7.4	8.2	7.7	NS	7.3	NS	SN	SN	SN	1860	SN	SN	SN	SN	SN	NS	NS	NS	NS	NS
Potassium	9.5	13	<100	10.5	15	<10	8.8	7.7	80	7.1	SN	7.3	2230	3420	163	SN	2340	808	760	48.2	911	976	622	674	360	SN	SN
Magnesium, Dissolved	SN	SN	109	133	130	154	117	117	132	123	SN	151	SN	SN	SN	SN	221	SN	SN	SN	SN	SN	NS.	SN	SN	SN	NS
Magnesium	7.68	104	110	167	180	171	117	122	128	120	SN	161	183	262	11.9	SN	276	70.2	06	7.3	121	122	88	8.68	53.3	SN	SN
Manganese, Dissolved	0.05	0.44	0.91	1.83	<0.01	5.04	4.02	3.97	4.16	3.66	SN	3.03	2	4.38	8.6	SN	9.3	12.5	6.5	5.6	10.3	4.5	5.24	9.7	6.65	SX	SN
Manganese	<0.05	0.67	0.74	6.1	<0.01	6.82	3.94	4.01	4.28	3.71	SN	3.16	5.2	9.0	9.2	SN	11.3	14.9	8.5	0.52	10	6.4	5.68	7.7	5.81	SN	SN
Calcium, Dissolved	SN	SN	364	462	496	496	426	418	437	416	SN	417	SN	SN	SN	SN	1240	NS	SN	SN	SN	SN	SN	SN	SN	NS	SN
Calcium	400	422	376	980	535	513	414	430	438	408	SN	453	1580	1510	64.6	SN	1530	722	749	51.5	916	742	715	726	.514	SN	SN
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	SN	<0.01	<0.05	<0.01	<0.1	SN	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.05	<0.05	<0.05	NS	NS
Chromium, Dissolved	0.28	0.21	80.0	0.1	90.0	20.0	0.04	0.03	0.02	0.02	SN	0.02	<0.2	80.0	<0.1	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	90:0	0.05	<0.05	<0.01	0.02
Hexavalent Chromlum, Dissolved	0.23	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	SN	SN	<0.1	0.2	<0.1	1.9	<0.005	<0.005	<0.05	900.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	SN
Chromium (Total)	0.27	0.27	0.14	0.14	90.0	0.07	0.04	0.03	0.03	0.02	NS	0.03	<0.2	<0.05	0.1	NS	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	90.0	0.05	<0.05	SN	NS
Sample Collection Date	10/7/2004	11/10/2004	12/28/2004	1/18/2005	2/10/2005	3/10/2005	4/13/2005	5/18/2005	6/14/2005	7/12/2005	7/19/2005	8/10/2005	9/16/2004	10/5/2004	11/9/2004	11/15/2004	12/20/2004	1/18/2005	2/14/2005	3/8/2005	4/11/2005	5/12/2005	6/8/2005	7/7/2005	8/4/2005	12/21/2004	5/25/2005
Station Name	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW003	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	RW004A	WoodellWW	Woodellww

Notes:

NS - Not Sampled
EP - Eurice Plant
GOP - Cut/O Corp.
WW - Water Well
MW - Monitoring Well
WW - Manitoring Well
MW - Monitoring Well
MW - Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW0684)
A - Monitoring Well Completion (MW0684)
M - Middle Monitoring Well Completion (MW071SA)
GA - Shallow/Deep, Fully-penetrating, Monitoring Well Completion (MW071SA)
SA - Shallow/Deep, Fully-penetrating, Monitoring Well Completion limit, the numeral (0.05) indicates the lowest-quantitation limit available.

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eurice #2 (North) Gas Plant
(mg/L unless noted)

		Oxygen	SN	SIS	NS	< 0.25	0.2	< 0.25	\$ 0.23 \$ 0.25	× 0.25	< 0.25	< 0.250	< 0.500	< 0.500	0.500	40.25	<0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.68	< 0.25	v 0.250	2000	< 0.500	< 0.500	9.0	0.31	< 0.25 < 0.25	< 0.25	1.7	< 0.500	< 0.500	× 0.500	< 0.500 < 0.25	< 0.25	0.38	0.3	< 0.25	2.7	< 0.500	< 0.500	< 0.500	0.29	< 0.25	0.20	18	< 0.25	< 0.250	< 0.500	× 0.500	5.10	< 0.25	< 0.25	< 0.25	< 0.25	1
	8888	Nitrogen	SN	SS	NS	1.4	-	2.4	2.8	3	2.5	1.1	3.4	4.6	2.8	2.4	2.7	0.56	0.71	8.9	2.7	5.4	2.5	3.0	5.4	23	0.83	9	15	27	3 6	13	5	9.6	2.1	6 6	3.9	4.1	6.8	4	7,	2 4	4.5	3.8	2	2.4	4.	- 2	2	3	4.5	4.6	77	3.7	3.4	2.3	5 20	_
	Permanent Gases	(n8/L)	SN	SN	NS	1.4	0.61	5.3	0 0	2.0	3.6	3.9	4.1	5.8	33	σ	9	1.4	-	5.4	12	5.7	4.7	4	200	6 4	5.5	13	13	170	199	210	400	200	360	0.00	45	19	160	53	1,460	140	130	290	160	460	340	400	260	950	920	280	190	3.4	270	280	8 c	
	ď	Carbon Dioxide	SN	SN	NS	800	580	1400	1200	1200	980	1000	1100	860	1000	1100	1100	066	1000	670	990	1300	1100	1200	100	066	1300	066	160	850	960	520	650	410	720	066	760	810	400	006	690	200	200	890	800	730	220	520	960	006	009	630	300	830	740	096	350	
	Total	Carbon	SN	SN	NS	23000	21000	28000	27000	21000	10000	24000	42000	26000	17000	9000	29000	21000	18	15000	29000	27	16000	2000	2000	18000	13000	27000	32000	31000	23000	31000	30000	43000	22000	21000	28000	35000	42000	33000	25000	29000	51000	26000	31000	25000	22000	38000	32000	26000	27000	29000	34000	37000	40000	30000	37000	
	Total		SN	SNS	SN	NS	SS	20600	S	2 2	S S	SS	SN	NS	SN	200	SNS	24400	SN	SN	SN	3160	SS	SN	2 2	2 V	10700	NS	SN	S	S S	SS	SN	NS.	S	2 4	2 VZ	SN	SN	SS.	2 2	2 82	NS	SN	NS	25000	2 4	SN	NS	NS	SN	SN	SN	NS	41500	NS	SN SN	
	Sulfide,		SN	NS	SN	7	က	v	v 1	7 \	7 -	٧	<0.05	₹	۲ ×	7	4	۲	٧.	۲,	₹	₹	₹	<0.05	7 7	-	₹	2	-	₹ 	7 5	<0.05	٧	٧		,	1 2	-	S	₽	0.27	,	-	₹	-	₹ ;	7 5	V	V	<u>۲</u>	⊽	₹	-	2	ţ	₹	<u>~</u>	
	Culfate		SN S	SNS	SN	006	900	8	900	3 8	300	500	300	400	စ္က	A00	006	780	900	300		_	7	+	+	+	+-	1200	200	904	350	300	300	400	9 400	004	8 6	300	200	500	9 5	804	400	400	006	8	3 5	69	200	200	38	00 S	5 5	1100	1000	009	500	
	Nitrogen,	(NO3)	S	SIS	SN	SN	SN	\$ 5	2 2	Q V	\$000	SN	<2	SN	SN	NO.	SN	5	SN	SN	SN	0.5	SN	SN	202	2 2	3	NS	NS	S	Ç V	SN	SN	SN	S	2 2	SN	SZ	SN	SN.	2 2	SN	SX	SN	SN	7	2 2	SN	SN	SN	SN	SN	200	SN	9	SN	S S	
(Desc)	Nitrate-	Nitrogen	SN	SN	SN	<2	^{<2}	42	2 5	75	SN	2	SN	SN	SS S	24 6	7 0	5	42	Ş	<2	<2	2	\$ 5	7 2	2 2	8	<2	<0.4	2 5	7 8	2	SN	SN	SN	٤	<0>	2	<2	2	Ç 2	2 2	NS	NS	2	\$	70	0	<2	<2	NS.	SN	SN	20	9	4	0 0	
(הייטין פספי ויסיפין)	Fluoride (F)	() pp ()	SN S	NS	SN	SN	SN	1.6	S S	2 02	S S	SN	NS	SN	SN	NO.	SN	1.9	SN	NS	NS	1.2	SN	SN	2 2	2 4	2.1	SN	NS	SN	S S	NS	SN	SN	SN	S UZ	SN	NS	SN	SN	SN	2 00	SN	SN	SN	9	2 0	SN	NS	NS	SN	SN	SNS	NS	4	SN	SN SN	
	Chloride		850	810	930	1320	880	1030	1070	250	270	250	510	390	340	720	1640	246	1160	380	490	280	210	500	060	280	189	1600	640	200	250	280	460	650	8	7450	550	310	099	320	230	510	730	530	1340	1160	190	430	270	270	330	370	430	1620	1740	880	470 650	
	Carbonate (CO3)	carbonate (cos)	SN	S S	SN	<5.0	<5.0	<5.0	0.50	0.00	25.0 \$5.0	<5.0	<5.0	<5.0	<5.0	0.65	250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.65	0.50	<5.0	<5.0	<5.0	0.50	0.00 VF.0	<5.0	<5.0	<5.0	<5.0	25.0	\$50	<5.0	<5.0	<5.0	0.50	\$50	<5.0	<5.0	<5.0	<5.0	25.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.50	<5.0	<5.0	<5.0	<5.0 <5.0	
	Bromide		SN	SN	SN	<20	NS	SN	SN	SN SN	S SN	SN	SN	SN	SN	SN	SN	420	NS	NS	NS	SN	NS	SN	S S	2 2	SN	SN	SN	SN	N W	SNS	SN	SN	SN	N V	2 22	SS	SN	SN	SN	2 00	NS	SN	<20	SN	O Z	S	NS SN	NS	SN	SN	SN	<20	SN	SN	SNS	
	Bicaches	Dicaro	SN	S S S	NS	<5.0	1940	<5.0	297	25.0	<5.0 <5.0	×5.0	<5.0	<5.0	<5.0	200	55.0	<5.0	<5.0	<5.0	3020	<5.0	<5.0	<5.0	0.00	0.6.0	<5.0	4800	4320	2220	2810	3800	3030	1890	<5.0	1730	25.0	<5.0	<5.0	<5.0	<5.0 7.0	25.0	2890	<5.0	<5.0	<5.0	0.00	250	<5.0	<5.0	<5.0	<5.0	45.0	<5.0	1480	<5.0	<5.0 <5.0	
	Alkaliniky	Alkalılıky —	SN	SNS	SN	<5.0	1940	<5.0	297	20.0	<5.0	<5.0	<5.0	<5.0	<5.0	2000	55.0	<5.0	<5.0	<5.0	3020	<5.0	<5.0	<5.0	0.00	0.50	<5.0	4800	4320	2220	2050	3800	3030	1890	\$5.0	1730	25.0	\$20	<5.0	<5.0	0.50	0.50	2890	<5.0	<5.0	<5.0	0.00	<5.0 <5.0	<5.0	<5.0	<5.0	<5.0	0.50 0.00	250	1480	<5.0	<5.0	
	Sample		1/5/2005	12/14/2004	8/1/2005	9/15/2004	10/6/2004	11/15/2004	12/28/2004	2/07/05/	3/10/2005	4/12/2005	5/12/2005	6/9/2005	7/7/2005	C002/01/8	10/7/2004	11/11/2004	12/29/2004	1/19/2005	1/27/2005	2/10/2005	3/15/2005	4/14/2005	5/1//2005	7/12/2005	8/10/2005	10/11/2004	1/6/2005	1/27/2005	3/17/2005	4/19/2005	6/1/2005	6/21/2005	7/21/2005	8/16/2005 10/11/2004	1/6/2005	1/27/2005	2/22/2005	3/21/2005	4/19/2005 8/1/2005	6/21/2005	7/21/2005	8/16/2005	10/11/2004	12/1/2004	1/27/2005	2/22/2005	3/21/2005	4/20/2005	6/1/2005	6/22/2005	8/16/2005	10/13/2004	12/1/2004	1/10/2005	2/22/2005	
	Station Name		EPWW1	T							IWOO1			IW001		1W001	T	Γ	Γ										10003	Ţ					10003	T	T	T		Ī	T	T		П		J	T	Ī					T	Ī			1W006	1

	Oxygen	2007	< 0.250	< 0.500	× 0.500 × 0.500	< 0.500	< 0.25	1 20	0.32	0.34	< 0.25	00700	< 0.500	< 0.500	< 0.500	< 0.25	12.0	< 0.25	0.26	< 0.25	× 0.250	× 0.500	< 0.500	× 0.500	< 0.25	1.7	< 0.25	< 0.25	< 0.250	< 0.500	× 0.500	× 0.500 × 0.500	< 0.25	0.52	2.2	SNS	0.31	< 0.25	0570	v 0.500	< 0.500	< 0.500	× 0.25	< 0.25	< 0.25	< 0.25	< 0.25 < 0.25 < 0.250	× 0.500	< 0.500	× 0.500	1 8 00	2.5	SS
	Nitroden		4.2	3.8	3,2	2.1	6.3	6.9	9.6	5.6	5.6	20 60	7.9	4.3	4.6	4.9	5.2	6.8	4.6	4.7	2.7	. 8	2.9	5.1	6.2	8.4	86	80 4	4	4.4	= 1	7.7	13	3.4	9.4	A. N.	3.6	2	7 5 6	12	2.5	3.6	4.6		4.1		1.1	8	7.8	2.4	124	9	SN
	5 -	=	9.5	18	20	33	-	0.77	5.9	25	1.9	12	1.3	3.1	1.1	2.5	0 6	52	41	27	23	5	20	11	3.2	2.7	5.6	5.4	44	190	45	130	0.84	71	230	SN NS	150	130	310	88	480	490	0.41	8.9	9.6	21	1001	8	32	92 50	26.5	12	SN
	Carbon Dioxide	4000	096	840	660	1100	610	750	460	690	800	650 510	410	680	810	860	260	640	740	810	930	430	810	720	450	730	230	560	470	490	180	610	350	1000	006	OZO NS	750	760	850	250	640	730	1100	970	066	920	1000	1100	470	810	900	640	SN
	Total Organic	Carbon	28000	36000	38000	51000	29000	28000	30000	28000	26000	29000	34000	42000	24000	26000	18000	15000	38000	21000	21000	17000	53000	38000	31000	39000	26000	39000	49000	29000	49000	55000	35000	23000	22000	12000	SN	26000	20000	22000	29000	15000	37000	22000	12000	54000	39000	45000	21000	60000	34000	30000	S
	Total Dissolved	Solids	Sign	NS	SN	SNS	SN	27100	S S	NS	SN	S S	SN	NS	SN	SN	NA CA	SS	SN	NS	SN	SS	SN	SN SN	35800	NS	SN	SN	SN	NS	SN	S	SN	SN	SN	S	SN	SN	S S	SS	SN	SN	S S	SS	NS	SN	SN	SN	SN	SN	N V	SN	SN
	Sulfide, Total	,	-	5	⊽ -	- 5	-	₽,	- V	۷1	·	V	V	-	۲	7	7 5	V	۲	₹	v t	V	-	٠,		٧	₹	V V	V	٧	Į.	-	2	v	⊽ ;	-	SN	٧	٠ د د	, 5	+	- 0	7 7	, v	۲,	-	V	V	V	- ;	-	V	SN
S	Sulfate	000	888	400	88	8	1100	88	3 8	400	300	200	88	300	400	8 2	200	2	400	200	200	202	400	130	1200	009	200	200	800	400	9	900	1300	1100	8	88	SN	200	96	809	900	400	200	88	300	200	3,50	300	300	86	900	4	SN
OC), and Gases Plant	Nitrogen, Nitrate as N	(NO3)	SNS	NS	SN	SN	SN	Ø 5	S S	SN	SN.	SE	SN	SN	SN	SN (V V	SN	NS	NS	SN	SN	NS	SN	\$ 0	SN	SN	SN	SN	NS	SN	SN	SN	NS	SN	SNS SNS	SN	NS	2 2	SS	SN	SN	SN	SS	NS	SN	S S	SN	SN	SN	2 8	SS	NS
ical Results c Carbon (TC (North) Gas noted)	Nitrate- Nitrite	Nitrogen	7 %	SN	S S	SNS	\$	٥,	70	\$	\$	2 2	SN	NS	SN	7 7	2 5	2	<2	\$	Ç Ş	SS	SN	SN	. 0	7 0	<2	8 8	\$ 22	NS	SN	SN	\$	\$	0	2 0	SN	\$	2 2	S S	NS	SN	\$ 6	4	\$	2	2 0	SN	SN	SN	20	· \$	2
Table 5 Groundwater Analytical Results Inorganics (Nonmetals), Total Organic Carbon (TOC), a ChevronTexaco Eunice #2 (North) Gas Plant (mg/L unless noted)	Fluoride (F)	9	SN	SN	SN	S SN	SN	2	ייי איייי צ'יי	S	SN	S S	S N	SN	SN	SN c	7 01	SS	NS	SN	SN S	SN	SN	SN	2 60	SN	SN	S U	SN	NS	SN	S V	SN	S	S	S S	NS	SN	S S	S S	SN	SN	SN	SN SN	NS	SS	SN	SN	SN	SN .	S S	SN	SN
Grc ChevronT	Chloride	917	520	590	510	510	1590	1370	300	450	330	3 30	470	540	460	1090	3 8	260	370	230	240	240	610	1730	1500	810	290	280	510	430	580	680	2000	1930	1510	1400	NS	1110	1190	1120	940	1080	740	350	330	470	230	380	320	490	1020	430	SN
Inorgani	Carbonate (CO3)	4	5.0 5.0	<5.0	<5.0	23.0 45.0	<5.0	<5.0	45.0	<5.0	<5.0	0.50	<5.0	<5.0	<5.0	<5.0	25.0	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	25.0	<5.0	<5.0	<5.0 75.0	\$50	<5.0	<5.0	0.5°	<5.0	<5.0	<5.0	<5.0	NS	<5.0	0.00	\$3.0 \$5.0	<5.0	<5.0	<5.0	25.0	<5.0	<5.0	<5.0	45.0	<5.0	65.0	25.0 55.0	<5.0	SN
	Bromide	2	S S S	SN	SN	S S	<20	SS	S C	SS	NS	S S	NS NS	NS	SS	<20 120	2 2	SN	NS	NS	SN	2 2	SN	SN	OZV VIV	SNS	SN	SN	2 5	SN	SN	<u>υ</u> <u>υ</u>	<20	SN	SN	2 2	SN	SN	<u> </u>	S S	SZ	NS	420	S S	NS	NS	SN VN	S	SN	S	NS.	SN	SN
	Bicarbonate		0.55	<5.0	65.0	\$50.0	<5.0	3450	<5.0 <5.0	<5.0	<5.0	45.0	<5.0	<5.0	<5.0	<5.0	1530	4500 45.0	<5.0	<5.0	<5.0	\$5.0 \$5.0	<5.0	45.0	1610	<5.0	<5.0	<5.0	55.0 <5.0	36.2	<5.0	\$5.0 4.00	2680	9020	<5.0	6530	NS	4100	5010	3800	3430	2770	<5.0	∠830 <5.0	<5.0	<5.0	\$5.0 \$5.0	\$50	<5.0	<5.0	<5.0 <5.0	<5.0	NS
	Alkalinity	,	\$ 50	<5.0	\$5.0	0.00	<5.0	3450	\$ 50	\$5.0	<5.0	9 9	\$ 650	<5.0	<5.0	\$5.0	1530	- +000 - +50	<5.0	<5.0	\$5.0	\$5.0	<5.0	\$5.0	1810	<5.0	<5.0	<5.0	\$5.0	36.2	<5.0	\$5.0 45.0	2680	9020	×5.0	6530	SN	4100	5010	3800	3430	2770	\$5.0 2000	2830 45.0	<5.0	<5.0	0.50	\$ 600	<5.0	\$50	65.0	5.0	SN
	9 5	Date	3/22/2005	5/31/2005	6/22/2005	8/16/2005	10/13/2004	12/2/2004	1/10/2005	2/22/2005	3/22/2005	4/20/2005	6/22/2005	7/13/2005	8/17/2005	10/13/2004	1/11/2006	2/2/2005	2/23/2005	3/22/2005	4/25/2005	6/22/2005	7/13/2005	8/17/2005	12/8/2004	1/11/2005	2/2/2005	2/23/2005	4/25/2005	5/31/2005	6/23/2005	7/13/2005	10/14/2004	12/7/2004	1/11/2005	2/2/2005	2/25/2005	3/23/2005	4/25/2005	6/23/2005	7/13/2005	8/17/2005	10/14/2004	1/12/2005	2/2/2005	2/24/2005	3/23/2005	5/26/2005	6/23/2005	7/14/2005	8/18/2005	2/3/2005	3/30/2005
ARCADIS	Station Name				10000				10007	Γ														10008			П	1W009		I	П		T	П		10010	Т		T		Γ	IW010	Ī			1	T		IW011			10012	П

				1.				_		т-	7	т.			_		_	ı –	_	T-	·	_	-					_				_	Г.			Γ-	_	_	т	_		_	_	Т	т-	_		_	. 1	r	1	_		г	_		_	_		_	_	_	_	_	_	1	_	
	Oxygen	< 0.500	< 0.500	< 0.500	6	1,3	0.41	-	< 0.25	< 0.25	0.050	0.530	v 0.500	× 0.500	< 0.500	9.0	3.1	1.2	4	0.48	,	200,	67.0	× 0.250	< 0.500	< 0.500	< 0.500	< 0.500	0.95	0.3	< 0.25	< 0.25	1.7	< 0.500	< 0.500	< 0.500	< 0.500	0.43	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.250	< 0.500	0.61	< 0.500	< 0.500	4.9	SS	SN	SN	SN	3.8	SN	SS	SN	SN	Š	SS	5.9	SN	S	6.6	SN	SN	SZ	4 7
Gases	Nitrogen	12	4.4	3.1	2	7.6	19	9.6	4.6	3.7	4 6	0.	n :	4.6	4.2	8.4	15	6.7	=	67	, c	2 2	0.0	2.5	7.7	5.9	4.5	4	7.9	10	3.9	1.1	8.4	4.8	3.4	4.1	5.5	5.9	2.5	38	1.6	1.9	3.6	2	3.5	13	3.4	26	23	SN	SN	SN	SN	24	SS	SN	SN	SN	SN	SN	23	SN	SZ	22	NS	SN	NS	23
Permanent G	(ug/L)	1.8	3	3.4	0.76	0.68	1.4	25	1,7	77	,	ŧ (S.	-	1.5	9.1	96.0	96.0	8	8		1	,	8.4	3.2	4.5	1.8	3.8	0.73	48	53	18	110	140	140	92	75	33	53	47	9.3	43	84	2	230	56	150	130	0.19	NS	SS	SS	Š	16	NS	SS	SN	SN	SN	SN	2	SN	SN	750	NS	SN	SN	5.4
ــام ا	Carbon Dioxide	170	650	750	780	850	130	570	700	950	1200		0880	750	810	1000	700	910	530	080	200	000	000	1100	900	530	860	1200	290	310	029	550	780	510	670	780	840	830	1200	006	066	1100	1000	1100	910	440	1100	1300	28	NS	NS	SN	SN	61	SN	SN	SN	SN	SN	SN	42	NS	NS	62	NS	SN	NS	20
		000	8	8	8	8	000	8	8	000	300	3 5	3	00	000	8	000	000	2 2	5	3 8	2 2	3 3	3	8	80	000	000	000	000	000	000	8	000	000	8	000	000	8	8	000	8	8	8	8	000	8	8	2	S	S	S	S		s	s	s	s	S	S	60	S	S	0		S	S	<i>u</i>
—	Carbon	320	200	520	330	310	260	8	630	390	8	200	3	360	500	9	250	-	t	t	27000	\dagger	+	\dagger	+	190	580	510	410	320	320	310	280	290	380	430	<u> </u>	F	26000	╁		Ė	ŀ	4	370	t	\vdash	H	17	H	-	_		_	L	L		L	L	_	_	ļ.	-	H	L	NS		L
Total	Solids	SN	SN	SN	SN	SN	SN	SN	SN	CZ.	2 4	2 9	2	SN	NS	SN	SN	SN	Z.	V	2 2	2 2	2 2	2	SS.	SN	SN	NS	SN	SZ	SN	SN	SN	SN	SN	SN	SN	SN	47400	S	SN	SS	SN	S	SS	SN	SS	SS	SS	SN	SN	SN	SN	2090	SN	SN	SN	SN	SN	SN	3510	SNS	SN	SZ	4280	SN	SN	V
Sulfide,	Total	SN	-	-	۲	V	۲×	V	V	۲۰	7	7	v .	+	1	۲	۲	۲	V	7	,	- ;	7	١,	V	۲	τ-	۲>	1	۲۰	-	۲	<0.05	-	۲	-	٧	2		₹	19	-	⊽	40 05 0 05	٧	-	-	V	<0.05	SN	SN	SN	SN	9.0	SN	SS	SN	SN	SN	SN	<0.05	SN	SN	SN	<0.05	NS	SN	ď
Suffate		SN	300	400	1000	1000	200	200	900	260	200		410	400	400	200	800	1000	200	9,6	36	3	2	200	320	300	400	400	1400	006	009	290	200	400	400	200	200	1300	1100	700	400	90	200	200	6	400	6	200	1100	SN	SS	SN	SS	82	SN	SN	SN	SN	SN	SS	1300	SN	SN	S.	630	SN	SN	UZ
Nitrogen,	(NO3)	SN	SN	SN	SN	SN	SN	SN	SN	S. N	2 2	2	2	SN	NS	SN	SN	SZ	S N	S.	2 2	2 2	2 2	SS	NS	NS	SN	NS	SN	SN	NS	SN	SN	SN	SN	SN	SN	SN	Ç	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SX	10.7	.SN	SN	SN	SN	SN	SN	3.3	SN	SN	S. S.	11.4	SN	NS	ď
Nitrate-	Nitrogen	SN	SN	SN	42	8	2	\$	\$	0	,	7 2	SZ	NS	SN	SN	\$	\$	Ç	0	7 5	, ,	7 9	7>	NS	SN	SN	SN	4	<2	<2 <2	\$	<2	SN	SN	SN	SN	6	<2	42	<0.4	<0.4	\$	\$	SN	SN	SN	SN	SNS	SN	SN	SN	SN	10.5	SZ	SN	SN	SN	SN	SN	2.8	SZ	SN	S S	11.8	SN.	NS	u Z
Fluoride (F)		SN	SN	NS	SN	SN	SN	SN	SN	U.Z	2 2	2 2	2	SZ	NS	SS	SN	SN	y Z	SN SN	2 2	2 2	2 5	SS	SN	NS	SN	NS	SN	SN	SN	SN	SN	SN	SN	SN	SN	S.N	19	SN	SN	SN	NS	SN	NS	NS	NS	S.N	SN	SN	SN	SN	SN	2.5	SN	SN	NS	NS	SN	NS	2.2	SN	NS	SN	2.5	SN	SN	014
Chloride		SN	380	350	1620	1640	006	570	670	430	200	340	340	510	540	570	1140	1460	490	340	025	220	027	230	180	330	460	350	1990	1070	630	450	370	420	490	810	520	1750	143	630	340	510	320	350	400	520	450	380	530	1200	1280	200	230	280	440	410	510	450	570	480	760	280	760	SN	1840	360	340	U Z
Carbonate (CO3)		SN	NS	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.5×	0.00	0.00	<5.0	<5.0	<5.0	<5.0	<5.0	25.0	<5.0	0.80	0.5	200	20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-50 -50	<5.0	<5.0	<5.0	<5.0	<5.0	\$5.0	<5.0	<5.0	<5.0	<50	<5.0	SN	NS	SN	SN	<5.0	SN	SN	NS	SN	NS	SN	<5.0	SN	SN	SN	<5.0	SN	SN	ď
Bromide		SN	SN	SN	<20	SN	SN	SN	SN	U.N.	2 2	2 4	2	NS	NS	SS	<20	SZ	S S	S.	2 02	2 4	2 5	2	NS	NS	SN	NS	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SNS	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	NS	SN	NS	SN	SN	NS	SN	SN	SN	NS	NS	SN	SN	SN	SN	SN	UZ.
Bicarbonate		NS	SN	<5.0	685	3640	<5.0	<5.0	<5.0	<5.0	2 4	0.5	0.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	65.0	200	2 4	0.00	C3.U	<5.0	<5.0	<5.0	<5.0	2140	5410	4630	2180	2510	3880	953	3900	2930	<50	4180	<5.0	<5.0	<5.0	475	<5.0	957	<5.0	375	<5.0	253	NS	NS	SN	SN	506	SN	SN	NS	NS	SN	SN	223	SN	SN	SN	399	SN	SN	UZ
Alkalinity	•	SN	NS	<5.0	685	3640	<5.0	<5.0	<5.0	<5.0	2 4	7 9	25.0	\$20	<5.0	<5.0	<5.0	<5.0	\$50 550	0.50	200	2	0.0	0.00	<5.0	<5.0	- 1						ı	ı	953	3900	2930	<50	4180	<5.0	<5.0	<5.0	475	<5.0	957	<5.0	375	<5.0	253	NS	NS	SN	SN	506	SN	SN	SN	SN	NS	SN.	223	NS	SN	SZ	399	ŠŅ	SN	v.
Sample		6/23/2005	7/14/2005	8/18/2005	10/19/2004	12/7/2004	1/12/2005	2/3/2005	2/24/2005	3/24/2005	4/26/2005	5007007	5/25/2005	6/23/2005	7/14/2005	8/23/2005	10/19/2004	12/7/2004	1/13/2005	2/2/2005	2002/002	200747005	4706/000	4/26/2005	5/25/2005	6/28/2005	7/14/2005	8/23/2005	10/11/2004	1/5/2005	2/21/2005	3/17/2005	4/19/2005	6/1/2005	6/21/2005	7/21/2005	8/23/2005	10/10/2004	11/22/2004	1/4/2005	1/27/2005	2/16/2005	3/15/2005	4/19/2005	6/1/2005	6/21/2005	7/20/2005	8/23/2005	6/16/2005	12/29/2004	6/7/2005	1/12/2005	5/26/2005	8/24/2005	1/4/2005	6/6/2005	1/4/2005	6/6/2005	1/6/2005	6/3/2005	8/11/2005	1/4/2005	6/6/2005	8/11/2005	8/15/2005	1/4/2005	6/6/2005	8/11/2005
Station Name			1W012						IW013			I									1000															Γ			ľ						10016		Γ	Γ			Ī									Г	Γ	Г	Г	T	T	MW004A		

G) Inorganics (Nonmet Chevron

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

	Oxvoen	B (4)	S	2 4	y.	SZ	7	SN	o'Z	4 8	000	3.5	7.6	- 4 8	2 4	23.6	8	0.85	0 200	0 500	< 0.500	12	SN	2.3	6	6.4		25	200	7.4	1.5	< 0.500	0.500	< 0.500	< 0.500	NS	0.34	03	8 6 6	07.0	0.09	0.48	0.8	< 0.500	< 0.500	< 0.500	< 0.500	S S	S	200	S	SN	6.3	SN	SN	- [25	C C	37	UN N	4 4	* (N.
ses	Daen	\rightarrow	S	200	SN	SN	22	SN	U.Z	27	18	12	α	t	1,	ď	2	=	6.6	13	-	17	SN	16	21	4	2 6	22	23	28	2	T	T	4.9			16	1	16	T	T	89	Г			7.1	9.7	2 2	200	200	SN	SN	23	NS	SN	22	N W	o v	202	SN.	14	<u> </u>	S
Permanent Gases	Methane	(ng/L)	SN	570	y y	SN	2	SN	V.Z	3.1	000	27	2.6	2.4			99	330	440	310	1100	380	SN	38	27	=	- 4	2 4	120	540	400	880	1100	2500	2400	SN	33	25	160	1,000	1000	16000	16000	13000	0066	11000	9300	S	2 2	250	SN	NS	2	SN	SN	0.56	25	V V V	13	SN	7.2	3 (;	2
۵	Carbon Dioxide		SN	200	S C	SN	23	SN	y Z	12	140	90	200	2	2 9	3 6	340	640	560	340	200	290	SN	270	210	280	330	380	280	260	350	280	099	830	810	SN	340	290	420	230	280	350	480 .	520	540	520	200	2	2 2	2 6	SN	SN	24	NS	SN	59	200	S VN	20	S.N.	22	77	72
Total	Organic	Carbon	17	2 4	SN	SN	26	S.N	NA NA	2 4	2 «	0	2	1 0	2 6	2 5	100	- Δ	386	247	254	87	S.N	5	12	38	8 6	2	2,5	37	32	174	182	550	309	SN	900	1090	830	35	220	089	570	394	510	379	429	2	2 2	2 ~	SN	SS	7	SN	SN	5 6	? .	9 40	SN	σ		-;	
Total	Dissolved	Solids	220	S	NS IN	SN	2540	ď	2 2	2000	200	2 2	2007	4230	2640	3010	3200	3180	3620	4140	4040	3450	S.N.	S S	SN	4730	4630	4630	4830	4570	4510	4450	4320	4900	3940	SN	SN	NS	6280	0080	2890	5410	5050	5070	5270	4150	4810	SN	S	2890	SN	NS	2700	SN	SN	9890	202	ç v	SNS	U.N	4490	200	
H	Sulfide, Total		40.05	SS	CON	SN	<0.05	U.N	Q V	20.05	20.0	0.00	900	00.00	000	60.0	30.00	800	3.5	23	2	12	U.Z	0.05	900	50.05	20.00	300	50.05	50.05	0.26	25	38	41	0.92	SN	24	23	42	77	4 a	3.7	4	0.56	90	64	48	S	S	2002	S	NS	<0.05	SN	SS	90.0	200	800	S	SN	40.05	3 0	:
	Sulfate	- 1	110	SN	302	S S	1000	VN	2 02	2 5	200	2000	24,0	200	200	2002	200	3 5	300	888	1,00	3 6	U.N.	1700	1710	1700	2007	1000	300	1302	1300	1060	806	15	200	SN	400	420	500	3 5	٥٢٧	4 6	3	8	9	009	32	SN.	SN	2 8	S V	S	900	SN	SS	86	2 5	200	300	V _N	200	1000	
Mitago	Nitrate as N	(NO3)	2.1	SZ	0.0	2 00	4.1	Ų.	202	3.6	0.0	2	2 0	0 0	4.0	0.7		- 4	2 0	9 6	0 0	0 0	S.N.	y V	2 42	2	9.4	t 0	0,0	202	<0.2	20.2	40.2 0.2	<0.2	<0.2	NS	SN	SN	<0.2	20.5	20.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	SN	SN	22	r g	NS	11.8	SN	SN	6.1	200	2 2	S S	Q V	2	2.0	
Γ		_	2	SN	4.0.4	S S	4.2	NIC	2 4	22	200	200	5	g.5	2	4.4	7.	7,	5 9	0.02	2 2	2 00	Z 7	2 4	7 7	- 0	7.5	,	4.5	5 6	400	100	UN N	SN	SN	<0.4	<0.4	1.6	40.4	40.0	\$0.5	18.7	40.4	40.4	NS	SN	NS	40.4	SN	7.5	2 0	SN	11.8	SN	SN	5.5	SS	0000	P. U.	2 0	200	2.	
	Fluoride (F)		4.1	SN	0 0	S S S	000	O V	2 4	27	7.7	2 2	2	200	0.7	1.5	0. 0	0 0	D 4	2 4	S a	6	UZ.	O V	202	2 6	5	2.0	4 0	9	3.	2,2	2.6	3.4	2.4	NS	NS	NS	4.4	4	3.4	# W	33	3.4	3	2.5	3.1	SN	SN	02.0	- N	SS	3.2	SN	NS	1.7	S S	2 2	2 2	2 0	200	3.0	
	Chloride		20	910	0727	310	2 6	250	430	310	430	1290	920	1050	0201	365	0,00	8	200	000	020	920	ON ON	1050	1020	220	0/01	3 5	01.10	1080	040	200	000	1330	960	SN	1370	1330	1380	1400	1460	1480	1320	1380	1370	1050	1290	SN	340	300	240	840	270	2090	2060	2450	SN	1760	200	2 0	2007	DDC	•
	Carbonate (CO3)		<5.0	SN	0.02	2 02	25.0	0.07	02	S	0.65	25.0	25.0	0.50	25.0	0.00	0.00	0.65	25.0	0.00	200	25.0	SIN	25.0	0.04	0.00	0.50	0.00	0.60	0.62	25.0	0.00	25.0	0.50	<50	SN	<5.0	<5.0	<5.0	<5.0	\$5.0 \$5.0	55.0	55.0	\$50	<5.0	<5.0	<5.0	NS	SN	SS	O.O.	SN	<5.0	NS	SN	<5.0	SN	0.00	0.67	2 0 2	2	0.65	
	Bromide		NS	SN C	2 2	02	202	2 2	2 4	2 2	2		2	SZ C	S.	4 3	2	S. C.	S S	2 2	200	SN SN	Q V	2 0	0 0	2	SN S	S.	2	SN	S N	2 2	2 4	200	SN	SN	10	SN	10	SN	SN	0 0	O S	SN	SNS	NS	SN	SN	SN	S C	S S	SN	SN	NS	SN	SN	SN)	202	202	201	S	•
	Bicarbonate		228	SN	4/1	SN	27.5	314	SN S	20,	104	288	439	328	444	525	255	808	306	1150	1130	791	S	250	373	216	478	1004	200	203	716	034	1060	2370	1380	SN	1700	1700	2010	SN	2730	2280	2170	2330	2150	1220	2240	SS	SN	SS	*17	S	217	NS	SN	182	SN	757	No.	2 2	2000	200	
	Alkalinity		228	SN	477	202	217	1 2 2	2	SN	164	288	439	359	444	525	232	600	900	200	200	F (5)	700	200	223	3/2	428	284	268	283	246	01/	280	2370	1380	NS	1700	1700	2010	2370	2730	2280	2170	2330	2150	1220	2240	SN	SN	SS	412	S VN	217	SN	SN	182	SN	152	400	2 2	200	200	
	Sample	Date	8/15/2005	6/30/2005	8/25/2005	1/4/2005	9/3/2003 9/44/7005	0/1/2/00	1/10/2005	6/3/2005	S/10/2005	9/16/2004	10/4/2004	11/8/2004	12/16/2004	1/13/2005	2/8/2005	3/8/2005	4/6/2005	5/11/2005	6/1/2003	1/8/2005	0/2/2003	0/4/2003	9/16/2004	10/4/2004	11/8/2004	12/16/2004	1/6/2005	2///2005	3/8/2005	4/6/2003	5/10/2005	7/8/2005	8/2/2005	8/4/2005	9/16/2004	10/4/2004	11/9/2004	12/16/2004	1/17/2005	2/8/2005	3/0/2003	5/11/2005	6/7/2005	7/6/2005	8/2/2005	8/4/2005	1/4/2005	6/6/2005	8/16/2005	6/6/2005	8/16/2005	1/3/2005	6/6/2005	8/18/2005	9/14/2004	9/15/2004	10/5/2004	10/0/2004	11/10/2004	11/16/2004	
	Station Name		MW004A	1	1	1	1	†	1	MW00/A	1	1	MWOO8	7		MW008	MANOOR	1	†	1	†	MANAGOR	T	T		1	T	1	7	7	T	1	Ť	WWW.	t	T	Γ		MWOORM	1	1	T	T	T	T	Τ			7	†	†	t	AW009M	T				†	MWO11	t		MW011	

Oxygen

Nitrogen Methane (ug/L) Carbon Dioxide 488888867 5 2 5 2 3 3 Total Organic Carbon 17 18 22 2710 45 45 26 26 27 27 27 27 31 Total Dissolved Solids Sulfide, Total 1500 1500 1500 1500 1600 1600 Sulfate Table 5 Groundwater Analytical Results Inorganics (Normetals), Total Organic Carbon (TOC), and Gases ChevronTexaco Eurice #2 (North) Gas Plant (mg/L unless noted) Nitrogen, Nitrate as N (NO3) Nitrate-Nitrite Nitrogen NS 8 5 8 စ္ခုစ္ခု Fluoride (F) 8.2 3.9 NS Chloride 730 560 600 640 710 S Carbonate (CO3) Bromide 8 8 8 8 8 8 8 8 8 8 8 8 8 Bicarbonate Alkalinity Sample Collection Date 2/8/2005 Station Name

Table 5
Groundwater Analytical Results
Inorganics (Normetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

	Oxygen	0.28	4	< 0.25	4.	0.51	0.38	2.3	< 0.500	1.9	< 0.500	< 0.500	SN	S.	9.6	200	200	9.0	2	200	9 0	S S	2	5	2	200	2 4	202	S S	NS	NS	NS	NS	SN	2	2 2	2 4	2	SZ	SN	SS	NS	SS	202	2 2	2 2	NS	8.5	SN	SN	- N	2 02	SN	SN	SN	SN	SN	4 4	2	SN	ŭ
es	Nitrogen	19	19	=	+	†	1	1	1	1	+	1	SN	SN	2	2	2:	-	SN	S :		SN	2	- 1	SN	2	2 2	2 2	2 00	SNS	NS	SN	NS	SN	SN	2 2	2 4	S	SN	NS	SN	NS	SN S	2	2 2	SN	SN	26	NS	SN	75 010	2 00	SNS	NS	SN	SN	SN	23	SN	SN	ũ
Permanent Gases	Methane (8.5	9000	14000	15000	1,000	3500	8300	7600	3500	15000	24000	SN.	SN	0.37	SN	200	0.89	SN	SNS	330	SN	SN	0.45	SN	2 5	22	2 2	2 4	SN	SS	SN	SN	SN	2	200	2 42	SS	SS	NS	NS	SN	SN	2 2	2 4	SN	NS	7.2	NS	SN	0.0	2 02	SN	SN	SS	SN	SN:	4.4	SS	SN	9
Perr	Carbon Dioxide	+	72	29	61	55	30	39	41	32	72	110	SN	SN	25	200	2	91	SN	SS	23	SN	SZ,	13	SN	2 2	2 4	2 2	2 2	SN	SN	SN	SN	SS	S S	S S	2 4	SN	S	NS	SN	SN	SN	2 2	202	SN	SN	36	SN	SN	202	SN	SN	SN	SS	SN	SN	4 3	S	NS	
Total	Organic	142	220	8	20	9	39	88	92	68	97	130	SS	NS	13	SN	200	29	SN	SN	88	SN	NS	30	SN	2	2 2	2 4	2 4	SN	SS	SS	NS	SN	SN	200	2 4	S S	NS	SN	SN	SN	SN	2 9	2 2	2 02	SN	28	SN	SN	77 27	2 02	SN	NS	SN	SN	SN	2	SS	SN	
Total	Dissalved	NS	2420	1940	1780	1880	1870	1860	1750	1850	2050	2000	SN	SN	4140	SN	SS	900	SS	SN	3040	SN	SN	1480	SN	2	2 2	202	2 0	SN	SN	SN	NS	SN	SN	200	2 4	S	NS	NS	SN	NS	SN	2 4	2 2	S	SN	4310	SN	S	No or	SN	NS	NS	SN	SN S	2	0611	S	SN	
-	Sulfide, Total	1	62	80	8	8	53	3.1	35	45	46	37	S	SN	<0.05	SN	SS	<0.05	SS	SN	<0.05	SN	SN	<0.05	SN	2 5	2	2 4	2 4	SN	SN	NS	NS	NS	S	200	Ş V	SN	SN	NS	SN	SN	SN	2 2	2 2	SN	NS	<0.05	NS	SNS	S 02	SNS	SN	NS	SN	SN S	S	50.05	2	S	
	Sulfate	80	7	73	19	8	8	200	320	300	100	37	SP	NS	1400	SZ.	200	200	SN	SN	006	SN	SN	400	SN	2	200	2 2	2 4	SZ	SN	SN	NS	SN	SN	2 2	2 4	SN	SN	SN	SN	SN	SN.	2 5	2 2	SN	SN	1300	NS	S	3 2	2 2	SN	SN	SN	SN	SN	200	NS	SZ	
Nitrogen.	Nitrate as N	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NS	SN	6.4	SZ	SNS	2.5	SN	SN	9.2	NS	SN	3.4	SS	SNS	200	2 5	2012	SN	NS.	SS	SN	NS	SN	2 2	000	282	SN	SN	SN	SN	SN	SN	200	S N	SN	1.6	SN	SN	80 0	2 2	SN	SN	NS	SN	SN	=	NS	S.	,
	Nitrogen	1	<0.4	40.4	<0.2	40.4	×0.4	<0.4	<0.4	SN	SN	0.7	SN	NS	6.9	SN	SN	2.2	SN	SN	œ :	SN	SN	2.9	NS	SN	2	2 2	204	SN	SNS	NS	NS	NS	SN	2 2	S S	SN	SN	NS	SN	SN	SN	S S	S	SN	SN	2	SN	SN	2.2	2 02	SNS	SN	NS	SS	SS	10.7	SN	ď	
	Fluoride (F)	\dagger	2	2	1.7	2	2.4	2.3	2.2	2.2	2.2	2	SN	NS	1.5	SS	SN	3.5	SN	SN	2.1	SN	SN	2.8	NS	SN	2	2 5	S S S	SN	SN	SN	SN	SN	SN	S	02	2 00	SN	SN	NS	SN	SS	S	2 02	200	NS	2.6	SN	SN	4 2	2 2	SN	SN	NS	SN	NS	-	NS	u z	2
_	Chloride	540	550	630	520	490	440	410	450	450	440	430	400	890	1300	19	90	170	1890	1790	760	2	20	400	2800	2490	nos	050	320	808	202	250	250	220	200	000	040	890	480	430	320	290	64	7600	990	1290	1210	1260	09	8	200	340	380	740	310	380	380	180	680	630	2
	Carbonate (CO3)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	SN	<5.0	SN	NS	<5.0	SN	NS	<5.0	SN	SN	<5.0	SN	SN	20	2	200	SN	SN	SN	SN	SN	SN	S	2 2	S	S	SN	NS	SN	SN	SN	200	200	SN	<5.0	SN	SN	0.62	S V	SN	SN	NS	NS	SN	<5.0	NS	S.	
	Bromide	SN	9	SN	SN	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	SN	SN	NS	SS	NS	SN	NS	SN	SN	NS	SN	2	2 2	2012	SN	SN	SN	SN	SN	SN	2	200	2 52	SN	SS	NS	SN	SN	SS	200	SN	SN	SN	SN	SN	SN	2 2	SS	SN	NS	SS	SN	SN	SN	v.	
	Bicarbonate	668	975	885	296	750	665	634	626	653	903	1060	NS	SN	208	SN	SN	197	NS	SN	312	SN	SN	171	SS	SN	200	2	200	2 82	SN	SN	SN	NS	NS	Sec	22	2 00	S S	SZ	NS	NS	NS	SN	S C	SN	SN	230	SN	NS	230	S S	SN	NS	NS	NS	NS	389	NS	S. N	
-	Alkalinity	899	975	885	967	750	665	634	626	653	903	1060	NS	SN	208	SN	SN	197	NS	SN	312	SN	SN	171	NS	SN	2	2	020	SN	SN	SN	SN	SN	SN	2	S S	2 02	SN	NS	NS	NS	SS	SN	2 2	2 02	SN	230	SN	SN	230	S S S	NS	NS.	SS	SN	SN	389	SN	S.	
Sample		10/6/2004	11/10/2004	12/28/2004	1/18/2005	2/9/2005	3/10/2005	4/13/2005	5/18/2005	6/14/2005	7/12/2005	8/9/2005	1/10/2005	6/3/2005	8/18/2005	1/11/2005	6/3/2005	8/23/2005	1/10/2005	6/8/2005	8/22/2005	12/16/2004	6/2/2005	8/23/2005	1/4/2005	6/3/2005	2/20/2004	6/2/2005	12/15/2004 6/2006	1/4/2005	6/3/2005	12/20/2004	5/31/2005	12/16/2004	5/31/2005	12/20/2004	2/31/2005	5/26/2005	1/3/2005	5/31/2005	2/21/2004	5/27/2005	12/21/2004	6/6/2005	1/6/2005	1/12/2005	6/1/2005	9/10/2005	2/14/2004	6/2/2005	42/28/2005	6/2/2005	7/18/2005	1/6/2005	7/18/2005	1/3/2005	6/2/2005	8/16/2005	2/13/2004	6/3/2005	
	Station Name	1	MW012M			٦	٦						MW013			7	T				T		- 1	1	1		1	1	1			MW018			MW018A	T	T		T				MW021A 1	7	T	Τ	Γ		MW023A 1	- {		MINOSA				MW025		7	1		

0 909	Groundwater Analytical Results	Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases	ChevronTexaco Eunice #2 (North) Gas Plant	(mg/L unless noted)	
		Inorganics			

[7	- Le		T	T.,	Ţ,			Ţ		T.	Ţ				T.,	T.,	_			رام		1.	Τ.	[П			T.	Ţ	L		Ţ]	Τ.			Ţ				T	T	Γ.		Τ	T	Τ.	Π	Т	T	Т	Τ	П	\Box
		n Oxygen	SN	2 2	Ž	N N	SN	Z.	Z Z	2 2	2 2	ž	SZ.	SN	2/2	2 2	Ž	2.8	ž	ž į	90	ž	3	SN	ž	6.7	S	Ž	9 2	Ž	SN	ž	ž	2 2	S S	ž	ž	ž:	Ž	2 2	SN	SN	24	S S	SN	SN	S	2	N N	S	2	S S	SSS	SN	SN	S S
	ases	Nitrogen	SN	SZ SZ	2 2	SS	NS	SN	SZ S	S S	S S	SS	SN	SN	2	2 2	Y.	21	SS	SN	8.5	S S	2 0	S	SS	18	SN	S	2 2	2 2	SN	SN	SN	SN	S S	SN	SN	SS	SN S	2 2	SN	SN	18	2 2	SN	Š	Ş	S	SN	SN	SS.	S S	2 2	SS	SN	S S
	Permanent Gases	Methane (ug/L)	SN	SN	Q U	SS	NS	SN	SN	2 2	S S	SN	SN	SN	SN	S N	S S	1100	SNS	SN	9700	SS	3200	SNS	NS	0.44	SN	SNS	0.52 NS	2 2	SN	SN	SN	SN	S S	SN	SS	SN	SN	SN	SN	NS	-	SZ	SN	NS	S	S S	SN	SN	SN	SN	S S	NS	NS	SN SN
	- be	Carbon Dioxide	SN	SN	2 2	NS NS	SN	SN	SN	S S	SN	NS.	SN	SN	SN	S S	SN	200	SN	SN	120	S S	2 08	SN	NS	7.7	SS	SN	\Q	SN	NS NS	SN	SS	SN	N X	NS	SN	SS	SN	S S S	NS	SN	31	2 2	SN	SN	SN	SN	SN	SN	SN	S V	SN	NS	SN	S S
·	Total	Organic Carbon	NS	S	2 0	SS	SN	SN	SN	2 2	Ç V	SS	SN	SN	S	2 4	S S	2	NS	NS	197	S	2 4	SN	NS	80	SN	SN.	4 2	2 02	SN	SN	SN	SN	SS	SN	NS	SN	SN	S S	SN	SN	22	SN	NS	NS	SN.	SN	SN	SN	SN	SN	N.S.	SS	SN	SN SN
	Total	Dissolved Solids	NS	SN	S	SN	SN	SN	SN S	2 0	o v	NS	SN	SN	SN.	S S	2 00	1750	NS	NS	1490	SN	1030	SNS	NS	1000	NS	SN	510	2 0	S	NS	SS	SN	S	S S	NS	NS	SN	S S	SN	SN	2700	SN	SS	SN	SN:	S V	2 2	SN	SN	S	S N	SS	SN	SN SN
	├─	Total T	11	S	2 2	NS	SN	SN	SNS	2 4	2 82	SS	SN	SN	SN S	o v	SN	90.0	SS	SN	80	S	2 45	Sign	SN	<0.05	S	SN	\$0.05 NS	2 2	SS	SN	SS	SN	2 0	NS S	SN	S	S	2 2	SN	NS	\$0.05	S	SN	NS	S	S	NSN	NS	SN	S	2 SN	NS	SN	S S
	├	Sulfate	SN	SS	200	SN	SN	SN	SN	200	S S	SNS	SN	SN	SN S	S S	2 00	75	SN	NS	6	2 2	5 5	SS	SS	300	SN	S.	102	S S	SS	NS	SN	SN S	SN	SN	SN	SN	SN S	2 2	NS	SN	000	SN	SN	NS	SN	S	NS NS	SNS	SN	SN	Š Ř	SN	NS	S S
), and Gases ant		Nitrate as N (NO3)	SN	SN	200	SNS	NS	SN	SN	S 0	S S	SN	SN	SN	SN.	202	2 VZ	0,3	NS	SN	<0.2	SN SN	200	SN	SN	2.8	SN	SN	6.7	S S	SN	SN	NS	SNS	SV	SNS	SN	NS	SN S	2 2	SN	SS	4.2	SN	NS NS	NS	SN	SN	2 00	SN	NS	SN	S N	SS	SN	S S
Carbon (10C (North) Gas P oted)	٣	Nitrogen	SN	SN	2 0	SN	NS	SN	SN	SN	N UZ	SN	NS	SN	SN	204	O V	40.4	NS	SN	4.0	SN	2 5	SN	SNS	2.7	SN	NS	80 0	202	SN	NS	NS	SNS	SN	SN	SN	SN	SN	S S	NS	SN	40.4	SN N	SN	NS	NS	SN	200	SN	SN	SN	S NN	SNS	NS	NS NS
Inorganics (Nonmetals), Total Organic Carbon (10'C), and Gasses ChevronTexaco Eurice #2 (North) Gas Plant (mg/L unless noted)	_	Fluoride (F)	SN	SN	SN	SNS	SN	SN	SN	S 0	2 2	SN	NS	SN	SN	000	Z VZ	2	NS	NS	4	SN	000	S S S	SN	3	SN	SN	3.7	0 0	SS	NS	NS	SN	SN	SN	NS	SN	SN .	N V	SN	SN	3	SNO	NS	SN	SN	SN	2 00	SN	NS	SN	N N	SNS	SN	SNS NS
s (Nonmetals) ChevronTex	Ļ_	Chloride	880	750	140	044	390	110	110	360	380	270	540	480	2 2	30	610	510	460	530	300	230	200	180	230	190	60	20	09	040	4700	1930	220	180	880	410	330	170	130	280	460	510	580	240	3200	2700	1080	1320	1420	1600	1560	280	1001	006	610	1380
Inorganic	├	Carbonate (CO3)	NS	SN	202	SN	NS	SN	SN	202	02	S	SN	SN	SN	202	2 02	\$	NS	NS	\$5.0	SN	0.40	O.S.	SNS	<5.0	SN	NS	25.0 NE	02	SN	NS	NS	SN	SN	SN	NS	NS	SN	S S S	NS	SN	<5.0	SN	SNS	SN	SN	S 0	200	NS	NS	SN	Ω V	SN	SN	SN SN
		Bromide	SN	SS	202	SN	SN	SN	SN	S S	0 0 0	SS	SN	SN	SN	202	2 02	SN	NS	NS	SN	S S	Q.	SS	SN	SN	SN	SN	SN S	S S	SZ	SN	NS	SN	SN	SN	NS	SN	SN	n v	SN	SN	SN	SN	NS	SN	SN	S S	S S S	NS	SN	SN	N N	NS	SN	SS
		Bicarbonate	NS	NS	22	SNS SNS	NS	NS	SN	SN	02	SN	NS	SN	SN	202	2 00	627	SN	NS	843	SN	200	SN	NS	170	SN	NS	207	S S	SN	NS	NS	SN	SN	SN	NS	NS	SN	2 2	NS	NS	227	NS	NS	SN	NS	SN S	200	NS	NS	SN	200	SN	SN	SN
		Alkalinity	NS	SN	2 2	2 2	NS	SN	ω _Z	S	2 2	SN	NS	SN	SN	2 02	202	627	NS	SN	843	SN	200	t SN	SNS	170	SN	SN	202	202	SN	NS	NS	SN	S S	SN	NS	SN	SN.	2 0	SS	SS	227	SN	S	SN	SN	SN	S S	SN	SN	SN	S N	SS	SN	SN
	Sample	Collection	12/6/2004	5/25/2005	12/1/2004	12/13/2004	5/26/2005	12/9/2004	5/24/2005	12/8/2004	1/13/2005	5/25/2005	1/5/2005	6/7/2005	12/21/2004	5/25/2005	5/31/2005	8/11/2005	1/12/2005	5/26/2005	8/25/2005	1/12/2005	5/3 1/2005	1/6/2005	6/8/2005	8/25/2005	12/15/2004	5/24/2005	8/18/2005	5002/01/1	12/9/2004	6/3/2005	12/28/2004	5/27/2005	1/5/2005	1/12/2005	5/27/2005	1/12/2005	5/26/2005	5/24/2005	1/5/2005	6/6/2005	8/11/2005	1/6/2005	1/6/2005	6/6/2005	1/5/2005	6/8/2005	6772005	1/11/2005	6/1/2005	1/11/2005	1/10/2005	6/7/2005	1/6/2005	1/11/2005
ARCADIS		Station Name	MW028	MW028	MW029	MW030	MW030	MW031	7	+	+	†-	1	П		7	T	1		Π	7	1	†	†	Т	Г		Т	Т	Т	Т	Т	П	T		Т	+	Ħ	7	+	$^{+}$	Н	-†	+	†	Н	7	+	+	\vdash		+	+	+	Н	MW055SA MW056SA

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	Oxygen	9	SN	2	2 2	2 2	8 8	SN	SN	S	SN	3.1	SZ	SN	SN	y Z	2 2	2 2	2 0	0,0	2 1	0,0	0.	4	7.0	5 6	3 014	2	2 4	200	7.5	2 V	S S	S S	S N	SN	7.2	SN	SN	SN	SN	SN	SN.	2	2	2 2	2 0	Q V	S	SS	5.7	SN	SN	SN	SN	NS	SN	SN	SN	SS	4.0	S S	2 V	NS
ses	Nitrogen		SN	2	2	2 2	2 2	SN	NS	SN	SS	4	SN	NS	NS	UZ.	2 2	2 2	2 +	-	4 6	٤	٥	٤	ن باعد		o N	2	1 6	No.	5 6	2 V	S S	N N	y v	SNS	13	NS	NS	SN	NS	NS	SN	S	S	2 2	2 2	2 4	SS	SNS	17	SN	NS	NS	SN	NS	NS	NS	SN	S	47	S S	2 00	NS
Permanent Gases	Methane	+	SN	2	2	2 0	=	SNS	NS	SN	NS	14000	SN	NSN	NS	o v	2 2	2 2	200	20.0	200	0,0	٥	89,		1 0	2014	200	5.0	· Ý	2 2	y y	S N	V.N	N N	NS	0.32	NS	SN	NS	NS	SN	SN	S	SN	2 5	2 0	2 4	SN	S S	0.48	NS	SN	NS	NS	NS	NS	NS	SN	SN	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 4	2 00	NS
Perm				+	+	T	T	-	ŀ				-			$\frac{1}{1}$	-	+			+	+	$\frac{1}{1}$	-	+	+	+			-		$\frac{1}{1}$				-			_				+	+	1	+	1	+		-	-	ŀ	-				_			+	+	+		H
	Carbon Dioxide		SE	2 9	2 3	2 2	4	SN	SS	o Z	SN	8.7	S.	SS	SN	UZ.	2 2	2 2	2 6	S S	કુ	8 5	'n	8	8 8	000	014	2 00	55	S V	25	i K	2 2	2 2	2 2	SN	17	NS	SN	SN	NS	NS	S	S	SN	2 2	2 0	2 2	SNS	SN	26	SN	NS	NS	SN	NS	SN	NS	SN	S	5 6	2 2	2 2	SN
Total	Organic	Carbon	SZ	2	2	2 4	2	S. N	SN	S.N	NS	-	SN	SN	NS	ψ _Z	2 2	2014	25	2 ;	= ;	4 6	2 5	2	2 8	200	t 04	2 5	40	2 02	2	VN	13	2 0	2 60	23	32	26	19	SN	NS	SN	S.	S	2	2 2	2 0	2 2	2 6		SN	12	2	80	10	13	11	4	45	es :	4 5	3 4	2 4	6
-	Dissolved	-	SN	2	2	2 2	4570	S S	SN	U.Z	SNS	3640	SN	SN	NS	UN	2 2	2 4	2 0	25.50	3420	3340	3220	3160	3230	2000	3200	200	3240	O V	3140	Y Y	e e	2 V	V V	SN	4100	NS	SN	SN	NS	NS	SN.	20	SN	2 2	2 2	Q V	SNS	SN	NS	SN	SN	SN	SN	SN	SN	SN	SN	SN	7100	2 2	2 00	SN
\vdash	Sulfide, D	_	SN S	2	2	2 2	20.05	NA NA	SN	SN	SNS	<0.05	U.N	SN	SN	No.	2 2	000	200	9 9	5 5	00.00	50.05	90.0	0.00	50.03	60.0	27.	± 00	20.07	200	S V	N N	Q V	Z V	NS	0.05	NS	SN	SN	NS	NS	SN	S	S	2 4	2 2	2 0	NS	SN	SN	NS	SN	SN	NS	NS	NS	SN	SN	SN	50.05	ON ON	2 02	NS.
	Sulfate	+	SN S	+	+	╁	╁	╁	╁	╁	╁	╀	╁	╀	╁	╁	+	+	╁	+	+	+	+	+	+	+	+	+	+	╁	+	+	╁	╁	╁	╁	H	Ŀ	_	Н	-	Н	+	+	+	+	+	+	╁	╀	╀	╁	-	-	H	L	Н	+	4	+	+	+	+	Н
	Nitrate as N S	+	+	+	+	\dagger	t	t		ŀ	╁	-		-	ŀ	+	+	+	\dagger	+	+	+	+	+	+	\dagger	Ŧ			t	t	t		ŀ	+	-	├		_	Н	1		+	+	+	+	+	╁	t	+	H	H	ŀ	-	_	Н		+	+	+	+	+	╁	NS
		4	+	+	1		-	-	-	-	-	<u> </u>	-	-	L	1	+	1	+	-	+	+		-	+	+	+	-		-		1			-	-	_						+	1										-							1			
<u> </u> -	Nitrite	Sitto	S	2	2	2 2	8	SN	SN	Z	SN	Ŷ	V.V	SS	SN	Z	2 2	2 2	2 5	77		2		12.		2 02	S	2 2	2 2	2 2	2 02	2 2	2 2	2 V	N	SN	SN	NS	SN	SN	NS	SN	SN	2 2	2	2 2	2 2	C V	SISS	SN	SS	NS	NS	NS	SN	NS	SN	NS	SN	S	2 2	S S	2 V	SN
	Fluoride (F)		SN	S	2	SN SN	6	S N	S. Z.	U.Z	SN	2	S.N	SN	SN	Z V	2 2	2	2 4	200	5.0	8.0	2	3.2	ري ا	2,0	102	200	2.0	214	96	SIN	S S	2 2	Z V	SZ	2.9	SN	SN	SN	NS	SN	SN	SS	SN	SS	S N	2 02	SN	SN	SS	SN	NS	SN	SN	NS	SN	SN	NS	SN.	الم	2 2	2 2	NS
	Chloride		1360	390	240	200	1090	420	420	760	740	08	810	740	80	0	8	8 5	000	1260	1250	1210	0711	1240	0111	1110	1,100	1710	0 00	1,000	1170	1570	C C	O V	S V	SN	1500	SN	SN	260	240	2180	1800	4700	3300	071	9	3 2	S	S.N.	SS	SN	SNS	SNS	SN	920	NS	SN	SS	S	050	25	g v	NS
	Carbonate (CO3)		SN	SN	200	SN	\$5.0	SN	S.N.	u.v.	SN	<5.0	SN	SN	SN	02	202	2 4	25	0.00	25.0	0.00	0.5	0.00	0.0	0.0	0.07	200	0.0	202	24	O.S.	SN	SN N	SN	SN	<5.0	NS	SN	SN	NS	SN	SN	SN	SN	S S	014	0 0	SN	SN	SZ	NS	SN	SN	SN	NS	NS	SN	SN	NS	0.00	S. N.	2 2	SN
	Bromide		SN	SS	2	S S	S S	SN	SN	U.Z	SN	SZ	U.N.	SN	SN	O V	200	200	2	4 4	2 5	2 2	25	2	2 2	2 2	200	201	SN SI	2 2	2 2	2 42	S S	2 2	Q V	SNS	SN	NS	SN	SN	NS	SN	SN	SN	SN	200	SNO NIC	S N	SN	SN	NS	NS	NS	SN	NS.	NS	NS	SN	NS	NS	2 2	200	2 02	NS
	Bicarbonate		SN	SN	2	SN	137	SN	SN	SN	SN	138	SN	SN	NS	2 2	SIN SIN	200	25.0	407	2/4	919	200	259	2/0	720	7/7	CN	207	SV2	308	SV	S SN	SN	S C N	SN	198	NS	SN	SN	SN	SN	NS	SN	SS	S	22	2 2	SN	SN	SNS	NS	SN	SN	SN	NS	NS	NS	NS	SN	217	202	2 2	SN
-	Alkalinity		SN	SN	200	02	137	S S	SNS	U.Z	SNS	138	U.Z	SN	SN	2 2	2 2	2 2	200	407	2/4	STS.	900	259	270	7007	7/7	2 5	1007	410	800	8 2	2 V	2 42	S S	SN	198	SN	SN	SN	SN	SN	SN	SN	SN	2 2	S S	Q V	SN	SN	SN	NS	NS	SN	SN	NS	SN	NS	SN	SN	317	O V	2 VZ	NS
Sample	Collection	Date	6/6/2005	12/15/2004	6/1/2005	1/3/2005	8/18/2005	12/14/2004	6/8/2005	1/4/2005	6/30/2005	8/16/2005	1/11/2005	6/9/2005	12/21/2004	5/25/2005	12/14/2003	12/14/2004	30247003	10/20/2004	12/9/2004	5002/21/1	2/2/2005	3/1/2005	3/24/2005	4/2/12005	3/24/2003	2/20/2005	002/4/7005	12/15/2003	6/2/2004	1/10/2005	1/26/2005	2/23/2005	3/30/2005	4/25/2005	5/25/2005	6/30/2005	7/18/2005	12/16/2004	6/1/2005	12/9/2004	5/24/2005	12/9/2004	5/26/2005	12/9/2004	12/15/2003	8/1/2005	9/14/2004	10/5/2004	10/6/2004	10/20/2004	11/4/2004	11/17/2004	12/2/2004	1/6/2005	2/7/2005	3/7/2005	4/14/2005	5/10/2005	6/2/2005	12/20/2004	1/26/2005	2/23/2005
	Station Name		MW056SA	MW057SA	MW05/SA	MANAGES	MWD58	T	Ī	T		090MW	T	T	Γ	AAVA/062A	1	T	MANAGEREA	Т	MW064SA	T	1	MW064SA	7	7	1	Ť	MINNOSASA ANDRASA	T	Τ	Т	Т	Τ	T	Т			Г	MW067SA	П	П	1	T		MW0/0	T	T	Τ	Τ	Т		Г	T	T	П	MW071SA	MW071SA	+	7	MANOTISA MANOTISA	Т	T	MW072SA

Chica	Groundwater Analytical Results	Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases	ChevronTexaco Eunice #2 (North) Gas Plant	(mg/L unless noted)	
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		Oxygen	SN	6.5	SN	S S	S S	NS	SN	S S	S S	SN	NS	SS	2 2	< 0.25	1.3	< 0.25	20.25	3.4	0.37	0.55	× 0.500	7 1 7	8.4	6.2	4.4	8.	76	6.9	4.4	2.2	4.6		2.6	0.29	2.6	< 0.25	2	2	< 0.500	0.67	× 0.500	91.0	< 0.25	< 0.25	< 0.25	< 0.25	00700	× 0.500	0.51	1.9	< 0.25	2
	Gases	Nitrogen	S 2	2 82	SS	SN	S S	NS	SS	S 2	SN	SN	NS	SN	2 2	2 2	14	15	27	16	8.6	7.2	4 0	9 -	1	16	19	22	2 2	21	17	9	9 6	2	18	12	12	4.9	12	4.0	9	П	_	4 0	T		3.1	1.7	2.8	7.5	3.3	6 4 7	4.6	15
	Permanent G	Methane (ug/L)	8 2	0.21	SN	SN	N S	SN	SN	SN	SN	SN	SN	S.	S V	2400	4900	1000	2800	2009	2800	3500	1200	9200	0.38	2.1	12	4 6	2	18	12	460	3300	1200	6800	4700	1800	11000	9200	0001	4900	12000	12000	0 6	2500	3800	5300	1400	2000	1200	6200	6200	130	800
	ď.	Carbon Dioxide	SN	26	SN	SN	200	SN	NS	SN	S S	NS	SN	SN	SN	1300	400	370	1100	350	780	200	260	990	410	30	25	33	24.5	28	23	23	71	530	430	420	330	580	570	230	190	310	370	00/	940	890	200	760	1000	290	900	650	500	480
	Total	Carbon	5 2	88	27	5,56	2 2	SNS	NS	SN	S S	SN	SN	SN	2 4	5200	109	420	2004	069	1050	593	900	345	13	8	ത	12	= =	33	25	31	18	8	452	6	157	400	110	203	200	120	25		8	4000	7000	3520	4440	3570	2790	2680	2000	650
	Total	Dissolved	SN	1650	SN	SN	S S	SS	SN	S	N N	SN	NS	SN	S S	SN	3620	3400	0/04	4040	4040	3760	3860	3230	SN	2390	2100	2370	2110	1800	2330	2350	2200	SNS	3850	3110	2960	3340	2070	3000	3160	3020	3150	280	4880	8270	7310	7240	6950	6880	7970	050	8840	2090
		Total	SN	200	SN	SZ SZ	S S	SN	SN	SN	SS	SN	SN	SN S	2 2	2 4	21	13	, V	- 0	4.6	25	28	6.7	0.07	<0.05	0.08	90.05	2 2 2	<0.05	<0.05	0.16	200	3	41	24	4 5	92	12	5.5	12	11.5	12	٥	2 5	٧	20	13	13	33	21	2 4	, E	4
s e		Sulfate	SN	230	SN	S	2 2	SS	SN	SN	n S	SS	SN	SN.	200	209	400	300	200	38	23	99	4	1	200	640	200	200	510	200	200	8	200	88	400	200	000	6	400	904	200	200	000	000	000	300	400	004	290	300	300	3 C	202	700
C), and Gas Plant	Nitrogen,	Nitrate as N (NO3)	S	5.7	SN	SN	S S	SS	SN	SS S	S S	SS	SN	SN.	S	S	<0.2	<0.2	2 6	20.2	<0.2	<0.2	\$0.5 50.5	20.0	SN	3.6	3.7	3.4	- 0	3.4	3.4	1.5	2.8	SZ	<0.2	¢0.2	1.7	\$0.2	<0.2	70.7	<0.2	<0.2	<0.2	200	5.5	<2	<0.2	0.5	70	1.9	42	2 V	2 0	5
c Carbon (TO (North) Gas I noted)	Nitrate-		SN	SNS	SN	SN	SN	SS	SN	SS	S S	SN	SN	SN	S	20	<0.4 40.4	<0.4	7 2	40.5	-	SN	SN	022	2 6	3.3	3.4	2.5	0 0	3.4	SN	SN	SS	40.4	4.04	40.4	1.7	0.7	<0.4	4.00	SS	SN	SN	7 5	7 0	<2	<0.4	40.6	y VN	SN	SN	S C	7 0	5
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases ChevronTexaco Eunice #2 (North) Gas Plant (mg/L unless noted)	:	Fluoride (F)	SN	3.7	SZ	SN	n v	SN	NS	SN	2 2	NS	SN	SN	SN	2 00	6.0	2.8	3.3	5 6 6	2.9	3.2	4.3	3.5	SNS	3.8	3.5	4	4.2	3.6	3.7	4	3.5	SN	7	2.3	300	2.6	3.5	3.2	3.9	3.6	2.9	200	988	2.3	0.7	4 0	B 6 C) (F)	3.2	3	5 -	3.3
ss (Nonmeta ChevronTe		Chloride	SN	360	NS	SN	370	670	590	930	008	450	390	2080	220	1130	980	850	010	720	730	740	800	710	720	980	760	980	220	82	720	730	929	950	1070	1020	1030	1060	950	920	1000	066	1010	1240	1310	1230	1170	006	1000	066	910	1030	1640	1420
Inorgania		Carbonate (CO3)	SN	\$50	NS	SN	S S	SN	NS	SN	S S	SN	SN	NS	SN	\$50	<5.0	<5.0	0.65	\$5.0	<5.0	<5.0	\$5.0	65.0	<5.0	<5.0	<5.0	<5.0	55.0	\$5.0	<5.0	<5.0	\$5.0 \$5.0	\$5.0	<5.0	<5.0	65.0	<5.0	<5.0	0.00	<5.0	<5.0	<5.0	0.00	\$50	<5.0	<5.0	65.0	250	<5.0	<5.0	25.0	\$5.0	<5.0
	:	Bromide	SN	SN	SN	SN	S S	SN	NS	SN	n c	SN	SN	SS	S S	2 5	SS	SN	2 2	S	NS	SN	SN	S V	SNS	SN	SN	SZ	000	SN	SN	SN	N N	SN	SN	SN	S S	SN	NS	200	SNS	NS	SN	025	SN	SN	NS	SN S	S S	SN	S	NS.	SN	NS
		Bicarbonate	SN	288	SN	SN	22	NS NS	NS	SN	2 2	SN	SN	NS	S S	2700	750	1500	1180	1380	1590	1510	1370	1550	236	228	251	277	243	226	219	242	233	584	884	681	513	819	770	/9/	611	621	612	1050	682	1260	1530	1150	1490	1660	1650	1610	1080	620
		Alkalinity	SN	288	NS	SN	SN	SN	NS	SN	S V	NS	SN	SN	SN	2700	750	1500	0811	1380	1590	1510	1370	1550	236	228	251	277	243	226	219	242	233	584	884	661	513	819	770	/6/	611	621	612	1020	682	1260	1530	1150	1490	1660	1650	1610	1080	620
	Sample		3/30/2005	5/25/2005	6/30/2005	7/18/2005	5/31/2005	12/7/2004	5/31/2005	12/7/2004	12/7/2005	6/1/2005	12/8/2004	6/1/2005	12/8/2004	10/10/2004	11/22/2004	1/5/2005	2/18/2005	3/15/2005	4/18/2005	6/2/2005	6/20/2005	8/25/2005	10/11/2004	11/23/2004	1/5/2005	1/27/2005	3/16/2005	4/18/2005	6/2/2005	6/20/2005	8/25/2005	10/10/2004	11/23/2004	1/5/2005	1/13/2005	2/16/2005	3/16/2005	4/19/2005 6/2/2005	6/21/2005	7/20/2005	8/25/2005	12/8/2004	1/12/2005	2/2/2005	3/1/2005	3/24/2005	5/25/2005	6/28/2005	7/14/2005	10/19/2005	12/8/2004	1/13/2005
ARCADIS	1		MW072SA	1	Н		1			MW075SA	MWO75SA	MW076SA	MW077SA	MW077SA	MW078SA					Т	MW079SA	MW079SA	MW079SA	WWO/93A	1.	П		MW080SA	MWUBUSA	T	П	T	7	1	П	_	MW081SA MW081SA	MW081SA	MW081SA	MWOBISA	MW081SA	MW081SA	MW081SA	MANOROSA	MW082SA	П		+	1	11	MW082SA	7-	1	MW083SA

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G:APROJECTISECORITask 1-N. Eunice Report Folders/Reports/2005 Report Tables/Table 5 Inorganics, xts

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eurlice #2 (North) Gas Plant
(mg/L unless noted)

1		
late (CO3) Chloride Fluoride (F)		Carbonate (CO3) Chloride
	0.5>	0.5>
	<5.0	0.55 SN
	<5.0	NS <5.0
	<5.0	NS <5.0
1080	<5.0	NS <5.0
+	+	NS <50.0
1	\$5.0	0.45 SN
	25.0	0.65
	0.62	25.0
	0.65	O.C.
+	0.00	20.0
	25.0	25.0
		0.67
+	\$5.0	0.65
		<5.0
	<5.0	NS <5.0
-	<5.0	<5.0
	<5.0	NS <5.0
	SN	SN
-	<5.0	<5.0
	55.0	650
	63.0	O.C.
	65.0	0.5> SN
_	<5.0	NS <5.0
-	<5.0	0.5> SN
		<5.0
	0.65	0.65
	<5.0	NS <5.0
	<5.0	NS <5.0
_	<5.0	NS <5.0
	SZ.	SZ SZ
	0.50	0.50
	200	0.00
	0.67	0.65
	0.65	O.C.
+	+	<5.0
	<5.0	7 <5.0
-	<5.0	NS <5.0
_	<5.0	8 <5.0
-	<5.0	0.5> SN
		NS
	<5.0	0.50
	25.0	No.
+	0.50	
	25.0	0.62
1	65.0	0.65 SN
	<5.0	<5.0
	<5.0	NS <5.0
	0\$×	0.55
ļ	012	014
1	CN :	CN
	SN	SN
	<5.0	<5.0
	0.50	OS> SIN
	200	200
		0.00
	25.0	O.C.
	<5.0	NS <5.0
	<5.0	<5.0
_	0.65	0.65

100	Sample	Allegion	4	or or or	الالل) فلدومهول	Chloride	Elucatido (E)	Nitrate-	Nitrogen,	Suffate	Sulfide,	Total	Total	1	Wethers		T
Station Name	Collection	Alkalinity	Bicarbonate	aromide	Carbonate (CO3)	Cnionae	Fidoride (F)	Nitrogen	Nitrate as N (NO3)	Sulrate	Total	Solids	Carbon	Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
MW088M	3/10/2005	3580	3580	SN	<5.0	930	1.3	<2	<0.2	800	2	15400	5000	1000	82	4.1	< 0.25
MW088M	4/13/2005	3820	3820	SN	<5.0	930	1.1	<2	<2	800	0.18	16000	12000	066	150	2.4	0.26
MW088M	5/17/2005	5830	5830	NS	<5.0	1230	0.8	<2	<2	80	3	41500	9000	1300	580	10	1.5
MW088M	5/31/2005	870	870	SN	<5.0	670	2.3	SN.	4	900	1.5	4010	711	320	2500	= 0	× 0.500
MWOBBM	7/12/2005	6150	6150	S C	0.00	040		2	7 5	3 3	4 (23700	12000	1300	830	7 6	0000
MWC88M	4/13/2005	OBLO	08.0	OZ UZ	0.62	000	2 02	Z N	NO.	3 2	2 4	0000 Z	OOO V	000	200	n W	OC O
RowlandWW	6/7/2005	SN	SN	SN	SN	840	SN	SN	SN	S S	S	SS	SNS	SNS	SN	SN	NS
RW002	9/15/2004	SN	NS	SS	SN	SN	NS	SN	NS	SN	NS	NS	80	NS	SN	SN	SN
RW002	9/16/2004	361	361	80	<5.0	1080	NS	7.3	NS	1500	<0.05	SN	4	96	25	13	3.3
RW002	10/6/2004	SN	SN	NS	SN	SN	NS	SN	NS	SN	SN	SN	5	SN	SN	SN	NS
RW002	10/7/2004	515	515	NS	<5.0	1110	NS	4.7	NS	1600	90.0	NS	23	330	770	5	2.4
RW002	11/17/2004	658	658	NS	<5.0	1030	2.2	3.6	4.3	1600	<0.05	4930	22	610	840	10	2.6
RW002	12/20/2004	SN	NS	NS	NS	SN	SN	SN	SN	SN	SN	NS	30	SN	SN	SN	SN
RW002	12/29/2004	920	43.1	SN	<5.0	1040		2.2	2.1	200	0.21	4960	44	840	380	4.7	0.71
RW002	1/25/2005	875	875	NS	<5.0	1050	4.1	0.7	0.7	1800	<0.05	4640	20	230	20	15	6
RW002	2/9/2005	687	687	NS	<5.0	1000	1.2	4.1	0.5	1500	<0.05	4710	21000	290	8	13	2.7
RW002	3/9/2005	594	594	S	\$20 \$20	1040	1.5	1.2	9.0	1400	\$0.05 5.45	4850	32	450	946	4 ;	2
KWOOZ	4/12/2005	200	600	2	25.0	0001	5	000	4.0	1400	0 0	4780	7	0.64	3	- 6	7
RW002	5/12/2005	588	588	S	0.62	000	4 0	4.0.4	707	2000	877	4/80	5	080	g :	7.8	49.0
KWOOZ	2/2/2005	288	288	SN	0.65	1080	2.4	S S	20.2	365	9.6 7.	4630	0,77	530	32	- 4	0.000
ZOWANG COOWIG	2000/0/0	200	700	200	0.5	1000	2.5	2 6	20.07	138	i ac	7690	220	000	7 8		2000
KWOOZ	8/8/2003	00/	100	C V	0.65	270	SIN	3 4	V VV	3 6	200	OO V	222	990	8	100	0000
DIAMOGS	10/7/2004	200	200	S S	0.50	430	S W	64	S N		800	S C C	,	770		23	24
RWOOR	11/10/2004	999	999	2 ~	<50	480	2	1.6	23	008	<0.05	2820	13	740	2.5	8 5	12
RWOO3	12/28/2004	692	692	SN	<5.0	490	-	8	1.9	006	<0.05	2760	28	530	2.6	12	2.5
RW003	1/18/2005	915	915	SN	<5.0	510	1.1	4.1	1.4	800	0.22	2960	70	790	5.7	13	3.8
RW003	2/10/2005	1330	1330	NS	<5.0	550	1.6	<0.4	<0.2	900	2.5	3340	18	970	4.3	5.8	0.29
RW003	3/10/2005	1110	1110	NS	<5.0	430	1.5	<0.4	<0.2	400	5.2	2930	330	790	910	9.2	0.41
RW003	4/13/2005	1240	1240	NS	<5.0	390	1.2	4.0	<0.2	စ္ထ	4.3	2760	343	470	2600	15	2.3
RW003	5/18/2005	1430	1430	NS	<5.0	430	1.5	<0.4	<0.2	22	34	2720	375	530	5400	7.3	< 0.500
RW003	6/14/2005	1420	1420	SN	65.0	460	1.6	SN	<0.2	500	8 3	2620	262	280	1900	9 4	E .
KW003	7/10/2/005	055	OSC!	S	SN	200	t UZ	Q V	V.O.	<u>د</u> د	- W	0007 NO	SN N	430	5100	2 4	0 200
8/4/003	8/10/2005	1320	1320	2 22	250 250	430	4	<0 ×	<0>	200	13	2490	300	640	2000	e 6	1 4
RW004A	9/16/2004	<50	<5.0	¢20	<5.0	1240	SNS	\$	SN	80	٧	SN	24000	006	240	1.4	< 0.25
RW004A	10/5/2004	<5.0	<5.0	SN	<5.0	1740	SN	42	NS	1100	3	SN	39000	1200	850	6.1	<0.25
RW004A	11/9/2004	<5.0	<5.0	<20	<5.0	1170	9.0	19	18	800	۷.	34000	37000	1300	1000	0.95	< 0.25
RW004A	11/15/2004	SN	SN	SN	SN	SN	NS	SN	SN	SS	SN	SN	68	SN	NS	SN	SN
RW004A	12/20/2004	<5.0	<5.0	SS	<5.0	1140	NS	40.4	SS	230	-	NS	23000	1100	980	< 0.40	< 0.25
RW004A	1/18/2005	<5.0	<5.0	SN	<5.0	330	SN	4	SN	900	-	SN	33000	1000	480	2.9	< 0.25
RW004A	2/14/2005	<5.0	<5.0	SN.	<5.0	260	SN	2	NS.	500	٧	SN	21000	1000	140	2.1	< 0.25
RW004A	3/8/2005	<5.0	<5.0	SN	<5.0	220	SN	\$	NS	220	٧	SS	27000	940	310	2.9	< 0.25
KW004A	4/11/2005	\$5.0 2.0	\$50	SN	45.0	410	SN	2	SN.	300	V	SN	32000	1100	330	1.9	< 0.250
KW004A	5/12/2005	0.00	0.60	200	0.00	040	2 2	2	2	200	Ş ,	200	4/000	1200	250	6.0	× 0.500
KW004A	5/3/2002	0.00	0.00	2	0.62	400	2	25	2 5	96	v	2 5	30000	01/0	080	× 0.400	0000
KW004A	6/4/2005	0.00	0.0	2 4	0.62	200	200	Sec.	2 2	300	, 	2 2	23000	008	170	9.00	0000
HAVOO4A	12/21/2003	0.00	0.05	200	O'S'N	007	CZ Z	7 0	202	300	v V	02	NS NS	980	OL Z	6.7	0000
/vodell/v/v/	5/25/2005	2 0	2 9	2 4	SNO.	200	2 4	2 02	2 2	2 2	2 4	Q V	2 02	S N	202	2 0	2 2
DODE!! A. A.	10007/07/0	22	1 2 2	25	2	1240	2	22	CN	200	2	2	2	2	22	ON T	20

Notes:

No. You's Sampled

No. You's Sampled

EP - Eurice Plant

GOP - Guif Ol Corp.

VW - Water Well

WW - Nater Well

WW -

Station Name	Date	Temp-C	рН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
EPWW1	6/9/2005	24.10	6.92	3.51	NM	NM	1.40	0.00
EPWW1	12/5/2005	18.70	6.96	3.43	2.66	246	NM	NM
GOPWW2	12/14/2004	20.04	7.85	2.36	0.29	-159	NM	NM
GOPWW2	6/1/2005	20.00	7.52	2.75	NM	NM	2.60	0.00
IW001	9/15/2004	23.66	3.83	11.65	0.70	121	3.20	0.00
IW001	10/6/2004	20.25	3.18	9.77	0.41	-94	4.00	0.00
IW001	11/15/2004	14.15	3.79	8.31	0.51	71	9.20	0.00
IW001	12/28/2004	15.73	4.03	11.16	0.27	41	5.20	0.00
IW001	1/15/2005	14.15	3.79	8.31	0.51	71	9.20	0.00
IW001	1/26/2005	15.69	3.55	3.54	1.84	88	3.20	0.00
IW001	2/9/2005	16.44	3.43	3.48	0.73	109	6.20	0.00
IW001	3/10/2005	21.86	5.38	4.06	0.27	76	1.80	0.00
IW001	4/12/2005	21.31	4.90	4.07	0.44	43	0.00	0.00
IW001	5/12/2005	23.25	3.96	4.31	0.68	136	0.00	0.00
IW001	6/9/2005	24.86	4.01	5.81	0.50	138	13.00	0.00
IW001	6/9/2005	24.86	4.01	5.81	0.50	138	2.60	0.00
IW001	7/7/2005	26.40	3.27	4.90	0.14	-237	5.00	0.00
IW001	8/10/2005	23.92	3.43	4.90	9.49	-58	4.00	0.00
IW001	9/16/2005	22.83	5.87	1.00	0.31	197	0.20	0.00
IW001	9/29/2005	20.12	3.44	1.33	0.28	153	NM	NM
IW002	9/9/2004	30.83	4.48	7.63	0.04	-90	8.20	0.00
1W002	10/7/2004	NM	NM	NM	NM	NM	9.40	0.00
IW002	11/11/2004	17.33	3.66	8.74	0.51	-11	4.80	0.00
IW002	12/29/2004	8.00	4.00	13.94	0.76	-211	8.20	0.00
IW002	1/19/2005	21.44	3.65	3.43	0.37	-12	78.00	0.00
IW002	1/19/2005	21.44	3.65	3.43	0.37	-12	7.80	0.00
IW002	2/10/2005	13.59	3.53	3.15	0.33	189	2.20	0.00
IW002	3/15/2005	15.66	5.26	3.79	0.91	-13	4.00	0.00
IW002	4/14/2005	19.31	4.56	3.58	0.47	61	2.70	0.00
IW002	5/12/2005	26.45	3.46	4.42	0.24	-30	5.60	0.00
IW002	6/15/2005	27.45	4.07	5.00	0.58	129	26.00	0.00
IW002	6/15/2005	27.43	4.07	5.55	0.58	129	5.20	0.00
IW002	7/12/2005	23.55	3.27	4.10	0.25	-188	4.00	0.00
IW002	8/10/2005	26.32	3.36	4.49	11.63	-52	9.00	0.25
IW002	9/20/2005	34.09	5.07	1.06	0.25	139	1.00	0.00
IW003	9/28/2004	19.61	4.79	21.40	0.14	-340	2.60	0.00
IW003	1/6/2005	18.04	5.17	10.30	0.35	170	38.00	0.00
IW003	1/6/2005	18.04	5.15	10.30	0.35	170	4.30	0.00
IW003	1/27/2005	16.34	4.80	6.94	0.38	-129	0.00	0.00
IW003	2/21/2005	21.16	4.92	8.28	0.40	-37	NM	NM
IW003	3/17/2005	19.58	5.53	8.32	0.49	-169	3.20	0.00
IW003	4/19/2005	25.30	5.10	8.71	0.44	-62	2.20	0.00
IW003	6/1/2005	27.32	4.90	9.30	1.20	-58	2.40	0.00
IW003	6/21/2005	27.46	4.84	8.18	0.60	-91	12.00	0.00
IW003	6/21/2005	27.46	4.84	8.18	0.60	-91 -91	2.40	0.00
IW003	7/21/2005	22.55	5.08	7.97	0.62	-332	4.00	0.00
IW003	8/16/2005	21.50	4.56	6.79	0.02	-332 -282	2.00	
IW003	9/26/2005	23.02	4.56	6.04	0.47	276	1.60	0.00
	1 9//ロ//ロロカー		ו ביים	1 1144	1 114/	. //n	. Inii	

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW004	1/6/2005	12.32	4.33	6.60	0.70	-198	21.50	0.00
IW004	1/6/2005	17.32	4.33	6.60	0.70	-198	7.60	0.00
IW004	1/27/2005	17.61	4.03	4.37	0.74	-22	0.00	0.00
IW004	2/22/2005	14.20	4.05	4.77	2.19	192	NM	NM
IW004	3/21/2005	20.87	5.32	5.58	1.01	18	1.40	0.00
IW004	4/19/2005	25.26	4.03	6.00	0.42	-14	0.00	0.00
IW004	6/1/2005	23.67	4.17	7.09	2.79	35	1.80	0.00
IW004	6/21/2005	28.57	3.89	5.30	0.64	-41	10.00	0.00
IW004	6/21/2005	28.57	3.89	5.30	0.64	-41	2.00	0.00
IW004	7/21/2005	22.83	3.96	5.96	0.57	-318	6.00	0.00
IW004	8/16/2005	22.83	3.96	5.96	0.57	-318	6.00	0.00
IW005	9/22/2004	27.28	3.84	17.50	0.46	198	0.00	0.00
IW005	12/1/2004	20.18	3.87	8.51	0.71	-299	8.00	1.80
IW005	1/6/2005	18.02	3.90	5.82	0.92	-88	41.00	16.70
IW005	1/6/2005	18.02	3.90	5.82	0.91	-89	8.20	2.00
IW005	1/27/2005	17.20	4.08	2.74	0.32	-94	0.00	0.00
IW005	2/22/2005	17.54	3.86	4.37	1.31	188	6.40	0.00
IW005	3/21/2005	20.00	5.23	4.40	1.01	140	1.80	0.00
IW005	4/20/2005	21.41	3.94	3.73	0.55	87	2.20	0.00
IW005	6/1/2005	20.11	3.69	5.31	3.17	181	2.20	0.00
IW005	6/22/2005	23.83	3.60	4.35	0.84	81	9.00	0.00
IW005	6/22/2005	23.83	3.60	4.35	0.84	81	1.80	0.00
IW005	7/13/2005	22.17	3.53	4.36	0.04	-187		
IW005	8/16/2005	21.67	3.59		0.22		3.00	0.00
			3.59	6.15 17.20		-295		0.00
IW006	9/22/2004	26.46			0.50	35	5.00	0.00
IW006	12/1/2004	19.77	3.69	12.07	0.68	-240	8.20	0.00
IW006	1/10/2005	18.37	4.32	7.63	1.45	-70 -70	41.00	0.00
IW006	1/10/2005	18.37	4.31	7.63	1.45	-70	8.20	0.00
IW006	1/31/2005	17.02	4.05	6.05	0.53	-30	2.00	0.00
IW006	2/22/2005	19.42	4.42	6.31	0.61	-101	7.60	8.00
IW006	3/22/2005	19.86	5.25	7.16	1.27	19	2.00	0.00
IW006	4/20/2005	24.24	4.07	5.86	0.63	40	2.00	0.00
IW006	5/31/2005	22.89	4.17	7.12	1.80	35	NM	NM
IW006	6/22/2005	24.19	4.19	6.20	0.80	8	2.00	0.00
IW006	6/27/2005	24.19	4.19	6.20	0.80	8	10.00	0.00
IW006	7/13/2005	21.81	4.05	6.18	0.28	-305	0.00	10.00
IW006	8/16/2005	23.15	3.97	5.33	0.90	-234	1.40	0.00
IW007	9/22/2004	24.50	3.94	19.80	0.27	31	6.00	0.00
IW007	12/2/2004	20.35	4.38	11.52	0.36	-340	6.80	0.00
IW007	1/10/2005	20.30	4.11	6.05	0.84	-191	34.00	0.00
IW007	1/10/2005	20.30	3.94	6.05	0.84	-191	6.80	0.00
IW007	1/31/2005	17.75	4.10	5.04	0.54	-63	1.40	0.00
IW007	2/22/2005	21.21	4.41	5.72	1.14	-89	5.80	0.00
IW007	4/20/2005	23.46	4.17	5.23	1.24	-3	1.80	0.00
IW007	4/20/2005	23.46	4.17	5.23	1.24	-3	1.80	0.00
IW007	5/31/2005	23.22	4.11	6.12	1.32	21	2.20	0.00
IW007	6/22/2005	24.17	4.08	5.47	1.19	42	12.00	0.00
IW007	6/22/2005	24.17	4.08	5.47	1.19	42	2.40	0.00
IW007	7/13/2005	23.03	3.81	5.23	0.49	-273	3.00	0.00

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW007	8/17/2005	22.05	3.78	4.74	1.16	-126	4.00	0.00
1W008	9/23/2004	26.55	3.92	15.20	0.50	198	7.00	0.00
1W008	12/2/2004	21.15	3.97	7.75	0.40	-375	9.40	0.00
1W008	1/11/2005	18.83	4.48	5.38	0.81	-211	47.00	0.00
1W008	1/11/2005	18.83	4.48	5.38	0.81	-211	9.40	0.00
1W008	2/2/2005	13.71	4.18	4.06	0.33	-54	4.20	0.00
1W008	2/23/2005	21.23	3.86	3.74	1.48	68	6.80	0.00
IW008	3/27/2005	20.91	4.66	3.73	1.21	82	2.00	0.00
IW008	4/25/2005	18.74	4.25	3.87	0.70	59	2.60	0.00
IW008	5/31/2005	23.47	3.48	3.48	1.43	192	1.80	0.00
IW008	6/22/2005	24.69	3.62	3.44	1.42	77	15.00	0.00
1W008	6/22/2005	24.69	3.62	3.44	1.42	77	3.00	0.00
IW008	7/13/2005	22.69	3.44	4.46	0.62	-239	3.00	0.00
IW008	8/17/2005	22.43	3.63	5.64	1.77	-199	4.00	0.00
IW009	9/23/2004	28.35	4.02	18.20	0.22	96	0.00	0.00
IW009	12/6/2004	11.28	4.22	13.99	0.62	94	8.60	0.00
IW009	1/11/2005	20.57	4.05	7.16	1.06	-135	34.00	0.00
IW009	1/11/2005	20.57	4.05	7.16	1.06	-135	6.80	0.00
IW009	2/2/2005	11.93	4.31	7.44	0.33	-20	2.00	0.00
IW009	2/23/2005	23.31	4.34	6.03	1.15	-31	6.40	8.00
IW009	3/23/2005	20.95	4.09	7.71	1.10	-60	1.20	0.00
IW009	4/25/2005	20.20	4.74	6.30	0.36	33	0.00	0.00
IW009	5/31/2005	20.98	4.31	7.37	0.81	76	2.00	0.00
IW009	6/22/2005	23.14	4.37	7.10	0.97	20	2.00	0.00
IW009	6/23/2005	23.14	4.37	7.10	0.97	20	10.00	0.00
IW009	7/13/2005	23.53	7.14	6.21	0.22	77	4.00	0.00
IW009	8/17/2005	22.33	3.64	5.80	0.90	-210	4.00	0.00
IW010	9/23/2004	28.28	4.53	22.80	0.20	64	8.50	0.00
IW010	12/7/2004	14.31	4.67	16.30	0.32	-4	8.00	0.00
IW010	1/11/2004	20.06	5.01	12.43	0.32	-280	37.00	0.00
IW010	1/11/2005	20.66	5.01	12.43	0.78	-280	7.40	0.00
IW010	2/2/2005	13.94	4.95	14.42	0.76	-76	2.60	0.00
IW010	2/24/2005	12.03	5.12	12.38	1.55	-10 -1	5.40	
IW010	3/23/2005	25.50	4.50	12.58	0.84	-1 -139	2.00	0.00
IW010	4/25/2005	21.57	4.85	11.19	0.84		0.00	
IW010	5/31/2005	21.94	5.01	11.85	0.33	-140	+	0.00
1VV010	6/23/2005	25.04	5.09	12.30		-68	2.40	0.00
					0.67	-63	9.00	0.00
IW010	6/23/2005	25.04	5.09	12.30	0.67	-63	1.80	0.00
IW010	7/13/2005	23.62	8.93	9.95	0.11	-146	3.00	0.00
IW010	8/17/2005	23.33	7.74	9.63	1.98	-175	6.00	0.00
IW011	9/1/2004	21.19	4.61	11.75	0.60	-317	6.00	0.00
IW011	9/23/2004	26.96	4.63	19.20	0.24	115	8.00	0.00
IW011	12/7/2004	15.22	4.05	14.00	0.37	-132	6.40	0.00
IW011	1/12/2005	17.33	3.87	5.84	1.53	60	34.00	0.00
IW011	1/12/2005	17.33	3.87	5.84	1.53	60	6.80	0.00
IW011	2/2/2005	15.13	3.98	5.52	0.23	16	2.40	0.00
IW011	2/24/2005	10.72	4.07	5.35	3.29	56	7.00	0.00
IW011	3/23/2005	22.78	3.29	5.62	1.53	-8	2.40	0.00
IW011	4/26/2005	20.13	4.56	4.68	0.35	-88	2.80	0.00

Station Nama	Data	Tomp C	"U	SnC mS/om	DO mg/I	ORP-mV	Eo	Culedo
Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L		Fe	Sulfide
IW011	5/26/2005	23.76	4.05	6.10	1.29	91	2.10	0.00
IW011	6/23/2005	25.29	3.94	4.97	1.16	3	10.00	0.00
IW011	6/23/2005	25.29	3.94	4.97	1.16		2.00	0.00
IW011	7/14/2005	21.96	3.69	4.93	0.31	-161	2.60	0.00
IW011	8/18/2005	23.98	3.86	5.40	0.66	22	8.00	0.00
IW012	9/1/2004	21.84	4.07	18.10	0.57	-187	6.60	0.00
IW012	9/23/2004	24.63	3.95	18.10	0.23	129	2.60	0.00
IW012	1/12/2005	17.89	4.46	6.98	1.89	143	37.00	0.00
IW012	1/12/2005	17.72	4.47	6.92	2.12	181	7.40	0.00
IW012	2/3/2005	16.24	3.99	6.01	0.39	-51	2.00	0.00
IW012	3/30/2005	21.76	4.95	6.67	1.87	55	3.40	0.00
IW012	4/26/2005	DRY		-				
IW012	5/26/2005	19.68	3.96	6.17	1.24	161	1.80	0.00
IW012	6/23/2005	25.39	3.98	6.17	1.77	-7	9.00	0.00
IW012	6/23/2005	25.39	3.98	6.17	1.77	-7	1.80	0.00
IW012	7/14/2005	22.85	3.85	5.51	0.22	-211	3.00	0.00
IW012	8/18/2005	24.05	3.81	5.31	1.95	-194	6.00	0.00
IW013	9/1/2004	23.58	4.03	11.82	0.51	-78	3.40	0.00
IW013	9/24/2004	23.07	4.39	20.40	0.50	328	8.60	0.00
IW013	12/7/2004	19.26	4.19	14.32	0.37	-213	7.40	0.00
IW013	1/12/2005	18.23	4.26	8.94	1.47	136	31.00	0.00
IW013	1/12/2005	18.23	4.26	8.92	1.37	125	6.20	0.00
IW013	2/3/2005	17.01	4.06	5.89	0.77	61	5.20	0.00
IW013	2/24/2005	14.49	4.14	6.44	1.75	89	8.20	0.00
IW013	3/24/2005	19.81	3.74	6.12	0.41	174	2.20	0.00
IW013	4/26/2005	26.81	4.02	5.73	1.03	128	2.20	0.00
IW013	5/25/2005	24.45	3.80	6.76	0.34	157	NM	NM
IW013	6/23/2005	23.34	3.92	6.91	1.21	-68	11.00	0.00
IW013	6/23/2005	23.34	3.92	6.91	1.21	-68	2.20	0.00
IW013	7/14/2005	24.28	3.89	6.22	0.65	-82	3.00	0.00
IW013	8/23/2005	NM	NM	NM	NM	NM	6.00	0.00
IW014	9/1/2004	22.51	4.61	8.78	0.71	-209	4.80	0.00
IW014	9/24/2004	24.27	3.97	20.30	0.29	243	1.20	0.00
IW014	12/7/2004	19.51	3.60	11.88	0.23	-72	6.20	0.00
IW014	1/13/2005	17.27	3.40	5.47	1.56	-14	26.00	0.00
IW014	1/13/2005	17.27	3.40	5.47	1.56	-14	5.20	0.00
IW014	2/3/2005	16.07	3.99	5.23	0.86	79		
IW014	2/24/2005	16.43	4.17	5.49	0.86	118	4.80	0.00
IW014	3/24/2005	20.07	3.89	4.89	0.91	-102	8.40	0.00
IW014	4/26/2005	24.07	3.92	4.69			3.80	0.00
IW014			4.07		1.29	214	3.20	0.00
	5/25/2005	22.00		6.30	0.24	37	1.20	0.00
IW014	6/28/2005	22.74	4.00	6.72	1.21	205	11.00	0.00
IW014	6/28/2005	22.74	4.00	6.72	1.21	205	2.20	0.00
IW014	7/14/2005	22.18	3.84	5.53	1.37	-306	3.00	0.00
IW014	8/23/2005	22.64	3.63	6.47	1.16	-134	4.60	0.00
IW015	9/28/2004	20.07	4.72	23.30	0.15	-330	1.80	0.00
IW015	1/5/2005	17.63	5.30	11.93	0.42	-212	43.00	0.00
IW015	1/5/2005	17.63	5.30	11.93	0.42	-212	8.60	0.00
IW015	2/21/2005	19.65	4.91	9.69	1.03	113	5.80	0.00

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW015	3/17/2005	13.61	5.93	8.99	0.64	-32	4.80	0.00
IW015	4/19/2005	22.90	4.90	8.57	0.48	-87	2.40	0.00
IW015	6/1/2005	24.05	4.96	9.76	1.03	-59	2.00	0.00
IW015	6/21/2005	27.73	4.66	9.11	0.54	47	11.00	0.00
IW015	6/21/2005	27.73	4.66	9.11	0.54	47	2.20	0.00
IW015	7/21/2005	23.17	4.62	10.63	0.57	-210	4.00	0.00
IW015	8/23/2005	23.25	4.62	9.58	0.88	-119	5.20	0.00
IW015	9/26/2005	26.87	4.83	9.52	0.51	261	1.80	0.00
IW016	9/27/2004	23.57	4.39	22.90	1.11	214	0.60	0.00
IW016	11/22/2004	19.55	4.22	14.49	0.29	-144	6.80	0.00
IW016	1/4/2005	20.38	4.03	8.48	0.23	-182	36.00	0.00
IW016	1/4/2005	20.38	4.63	8.48	0.37	-182	7.20	0.00
IW016	1/27/2005	13.29	4.50	6.51	0.44	-23	6.60	0.00
IW016	2/16/2005	14.31	4.27	6.46	0.73	92	4.90	0.00
IW016	3/15/2005	15.75	5.48	0.02	6.67	84	3.00	0.00
IW016	4/19/2005	20.88	4.69	7.11	0.34	-56	4.90	0.00
IW016	6/1/2005	24.82	4.41	9.28	0.98	-26	2.60	0.00
IW016	6/22/2005	24.02	4.32	7.96	0.34	99	14.00	
			4.32	7.96	0.34	99		0.00
IW016	6/22/2005	24.10	4.35				2.80	0.00
IW016	7/20/2005 8/23/2005			6.96	0.28	-299	3.00	0.25
IW016		23.38	4.13	7.25	0.65	-29	4.00	1.00
IW016	9/26/2005	24.75	4.19	6.41	0.39	282	1.60	0.00
LordWW	12/21/2004	19.72	6.43	4.28	4.15	225	NM	NM
LordWW	6/7/2005	20.80	7.06	4.11	NM	NM 27	2.40	0.00
MW001	1/12/2005	21.54	6.92	2.29	1.19	37	3.40	0.00
MW001	5/26/2005	22.10	6.94	2.41	NM	NM	3.20	0.00
MW002	1/4/2005	21.12	6.93	2.78	3.56	184	0.00	0.00
MW002	6/2/2005	21.60	7.27	2.16	NM	NM	0.00	0.00
MW002A	1/4/2005	21.22	7.15	2.58	1.65	140	NM	NM
MW002A	6/6/2005	21.20	7.44	1.97	NM	NM	0.00	0.00
MW003	1/6/2005	19.38	6.89	3.84	19.99	158	NM	NM
MW003	6/3/2005	19.90	7.35	2.91	NM	NM	0.00	0.00
MW004	1/4/2005	20.63	6.57	3.67	19.99	90	NM	NM
MW004	6/6/2005	22.60	6.81	3.18	NM	NM	0.00	0.00
MW004A	1/4/2005	20.90	7.19	1.98	19.99	56	NM	NM
MW004A	6/6/2005	22.30	7.69	2.25	NM	NM	0.00	0.00
MW005	6/28/2005	22.50	6.90	4.52	0.20	-148	NM	NM
MW007	1/4/2005	19.13	7.21	2.21	7.20	213	NM	NM
MW007	6/3/2005	20.80	7.42	1.76	NM	NM	0.00	0.00
MW007A	1/10/2005	19.79	7.31	2.25	17.40	97	NM	NM
MW007A	6/3/2005	21.20	7.60	1.49	NM	NM	0.00	0.00
MW008	9/16/2004	22.65	6.85	7.45	1.39	305	0.00	0.00
800WM	10/4/2004	20.37	7.06	6.26	1.36	437	0.00	0.00
MW008	11/8/2004	21.12	7.31	4.86	0.81	201	0.00	0.00
MW008	12/16/2004	17.25	6.84	5.94	1.97	358	0.00	0.00
MW008	1/13/2005	18.57	6.39	3.94	1.50	101.1	0.08	0.00
MW008	1/13/2005	13.57	6.39	3.94	1.50	101	0.08	0.00
MW008	2/8/2005	15.42	6.81	5.21	0.60	330	0.00	0.00
800WM	3/8/2005	19.31	6.36	3.54	0.37	51	0.00	0.00

MW008 5 MW008	4/6/2005 5/11/2005	Temp-C 18.79	pН	SpC-mS/cm		ORP-mV	Fe	Sulfide
MW008 5 MW008			7.39	3.55	DO-mg/L 0.71	53	0.00	0.00
MW008		20.07	5.91	3.66	0.33	-10	2.00	1.45
	6/7/2005	24.43	6.49	4.94	0.43	-67	1.20	0.00
	6/7/2005	24.43	6.49	4.94	0.43	-67	1.20	0.00
	7/6/2005	21.47	6.22	5.51	0.71	-99	3.00	1.00
	8/2/2005	21.60	7.64	4.19	0.75	-151	2.60	0.00
	9/7/2005	19.54	6.28	5.42	0.19	-204	NM	NM
	9/15/2005	25.87	6.24	4.82	0.81	175	1.80	0.00
	9/28/2005	25.05	5.98	4.51	7.99	176	NM	NM
	9/16/2004	22.31	6.42	6.81	0.29	285	0.00	0.00
	10/4/2004	21.08	6.65	6.81	0.37	386	0.00	0.00
	11/8/2004	21.28	6.43	5.44	0.44	255	0.10	0.00
	2/16/2004	15.01	6.24	5.72	0.29	392	0.00	0.00
	1/6/2005	16.21	6.12	5.98	1.57	120.3	0.00	0.00
	1/6/2005	16.21	6.12	5.98	1.57	120	0.00	0.00
	2/7/2005	18.02	6.40	4.81	0.53	363	0.00	0.00
	3/8/2005	19.58	6.38	4.54	2.84	196	0.00	0.00
	4/6/2005	17.28	7.37	4.68	0.46	-3	0.00	0.00
	5/10/2005	24.06	5.97	4.55	0.17	-94	1.00	1.10
1	6/7/2005	23.38	6.10	5.64	0.17	-107	1.00	1.95
	6/7/2005	23.38	6.10	5.64	0.17	-107	1.00	1.95
	7/6/2005	27.65	5.97	5.53	0.89	-126	1.00	2.25
	8/2/2005	28.12	9.67	4.98	0.08	-272	0.00	2.05
	9/7/2005	24.36	6.16	4.64	0.23	-69	0.40	1.20
	9/15/2005	28.62	6.22	4.55	0.25	-74	NM	NM
	9/28/2005	22.39	6.10	4.45	0.69	47	NM	NM
	9/16/2004	25.02	6.91	8.14	1.06	45	0.30	1.90
	10/4/2004	23.69	6.95	8.55	0.14	31	0.00	1.00
	11/9/2004	18.99	6.66	5.94	0.17	-359	2.20	0.60
	2/16/2004	17.45	6.44	7.10	0.18	-81	1.40	1.70
	1/13/2005	15.93	6.83	7.57	0.95	40	5.50	2.25
	1/17/2005	15.93	6.85	7.57	0.95	40	25.00	7.08
	2/8/2005	14.19	6.75	7.27	0.78	144	6.00	0.55
	3/8/2005	18.57	6.71	5.69	0.99	-98	3.00	0.15
	4/6/2005	20.74	7.90	5.90	0.48	-93	0.00	0.00
	5/11/2005	24.65	6.08	5.51	6.09	-146	0.80	1.10
	6/7/2005	28.66	6.55	7.00	0.15	-156	0.30	1.55
	6/7/2005	28.66	6.55	7.00	0.15	-156	0.30	1.55
	7/6/2005	23.56	6.45	6.96	0.04	-186	0.00	2.25
	8/2/2005	26.70	9.20	5.96	0.27	-279	0.00	2.15
	9/7/2005	21.03	6.96	4.68	0.31	84	1.80	1.60
	9/15/2005	22.77	6.18	5.43	0.16	57	0.80	0.00
	9/28/2005	24.75	5.84	5.50	2.95	137	NM	NM
	1/4/2005	20.09	6.70	2.86	19.99	79	NM	NM
	6/6/2005	20.20	7.24	2.44	NM	NM	0.00	0.00
	1/11/2005	20.16	6.80	3.47	18.30	152	NM	NM
	6/6/2005	20.00	7.12	3.59	NM	NM	0.00	0.00
	1/3/2005	20.51	6.20	5.61	5.20	192	NM	NM
	6/6/2005	20.30	6.88	6.55	NM	NM	0.00	0.00

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW011	9/15/2004	21.04	7.48	6.95	1.08	252	0.00	0.00
MW011	10/6/2004	20.12	7.45	6.73	0.89	-91	NM	NM
MW011	11/16/2004	19.78	7.17	4.70	2.35	24	0.00	0.00
MW011	12/20/2004	19.46	7.01	7.24	0.54	296	0.00	0.00
MW011	12/29/2004	20.53	5.29	7.50	0.43	-194	>10.0	1.50
MW011	1/25/2005	17.16	6.70	4.43	2.41	258	0.00	0.00
MW011	2/8/2005	17.71	6.77	5.65	2.21	332	0.00	0.00
MW011	3/9/2005	18.60	6.84	4.64	2.47	222	0.00	0.00
MW011	4/12/2005	18.14	6.67	5.14	1.91	287	0.00	0.00
MW011	5/12/2005	19.85	6.04	5.21	2.27	341	0.00	0.00
MW011	6/8/2005	21.08	6.87	6.79	1.54	231	0.00	0.00
MW011	6/8/2005	21.08	6.87	6.79	1.54	231	0.00	0.00
MW011	7/11/2005	21.59	1.49	6.37	2.25	308	0.00	0.00
MW011	8/4/2005	23.50	5.98	5.94	2.80	16	0.00	0.00
MW011	9/5/2005	18.24	6.87	6.95	2.37	-400	NM	NM
MW011	9/15/2005	20.37	6.52	5.50	2.19	270	0.00	0.00
MW011	9/28/2005	23.48	6.49	5.85	4.49	223	NM	NM
MW011A	9/15/2004	20.49	7.44	5.69	1.84	278	0.00	0.00
MW011A	10/6/2004	20.21	6.68	9.05	0.21	-385	0.00	0.00
MW011A	12/20/2004	19.79	7.07	7.72	0.64	272	0.00	0.00
MW011A	12/29/2004	20.26	6.47	3.18	2.86	200	0.00	0.00
MW011A	1/19/2005	20.62	7.23	4.54	4.94	297	0.60	
MW011A	1/25/2005	14.61	6.91	4.35	2.69	285	0.60	0.00
MW011A	2/8/2005	19.05	7.07	5.39	2.03	351		
MW011A	3/9/2005	16.74	7.17	5.11	0.96	203	0.20	0.00
MW011A	4/11/2005	21.07	7.17	5.35	0.96		0.10	0.00
MW011A	5/11/2005	23.04	6.31	5.08	0.86	259	0.00	0.00
	6/8/2005		7.20			240	0.00	0.00
MW011A MW011A	1	20.42		6.72	0.63	211	NM	NM
	6/8/2005	20.42	7.20	6.72	0.63	211	0.00	0.00
MW011A	7/11/2005	21.74	2.25	6.05	0.19	287	0.00	0.00
MW011A	8/4/2005	26.99	6.30	5.49	1.38	-9	0.00	0.00
MW011A	9/7/2005	19.71	7.44	6.11	0.00	117	NM	NM
MW011A	9/16/2005	20.25	7.01	5.54	0.54	254	NM	NM
MW011A	9/28/2005	31.26	7.21	5.11	8.21	240	NM	NM
MW011AL	8/11/2004	21.69	7.64	8.37	5.57	160	0.10	0.00
MW011AL	9/15/2004	20.06	7.44	7.89	0.29	231	0.00	0.00
MW011AL	10/5/2004	20.60	7.41	6.83	0.64	-54	0.00	0.00
MW011AL	11/11/2004	13.07	7.26	5.25	1.26	147	0.00	0.00
MW011L	8/11/2004	23.16	7.41	7.78	1.42	133	0.10	0.00
MW011L	9/14/2004	21.41	7.54	6.96	0.75	227	0.00	0.00
MW011L	10/5/2004	22.23	7.52	6.95	1.60	-70	0.00	0.00
MW011L	11/11/2004	16.98	7.38	4.64	1.44	204	0.00	0.00
MW011M	9/15/2004	20.94	6.67	9.43	0.08	-75	0.20	0.80
MW011M	11/16/2004	19.96	6.50	7.30	0.28	-378	0.30	0.00
MW011M	12/20/2004		6.58	9.90	0.12	-106	0.00	17.91
MW011M	12/20/2004		6.58	9.90	0.12	-106	0.00	2.15
MW011M	1/25/2005	19.00	6.43	7.47	0.28	-120	0.60	1.90
MW011M	2/9/2005	8.53	6.50	9.22	8.68	-76	0.20	1.95
MW011M	3/9/2005	20.23	6.73	7.80	0.11	-216	0.30	1.15

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW011M	4/12/2005	21.72	6.76	6.16	0.36	13	1.20	0.45
MW011M	5/12/2005	21.19	6.07	7.13	0.38	50	2.20	1.20
MW011M	6/8/2005	24.13	6.89	8.83	0.16	-51	1.20	1.70
MW011M	6/8/2005	24.13	6.89	8.83	0.16	-51	1.20	1.70
MW011M	7/11/2005	25.31	6.70	8.39	0.18	-274	1.60	1.00
MW011M	8/8/2005	22.59	8.36	6.95	0.11	-133	2.00	0.00
MW011M	9/1/2005	28.17	6.81	7.63	0.61	142	0.00	0.00
MW011M	9/16/2005	20.28	6.77	6.59	0.67	62	0.00	1.80
MW011M	9/28/2005	27.45	6.74	7.08	0.22	81	NM	NM
MW011ML	8/11/2004	24.12	7.12	10.17	0.37	-272	0.20	0.00
MW011ML	9/14/2004	29.27	7.27	8.66	0.33	-28	0.00	0.00
MW011ML	10/5/2004	21.41	7.15	8.80	1.16	-268	0.20	0.40
MW011ML	11/11/2004	18.28	6.73	7.56	0.40	-227	0.30	0.15
MW012	9/9/2004	16.44	6.95	5.07	3.88	59.05	0.00	0.00
MW012	10/6/2004	19.39	7.56	3.78	2.46	-49	0.00	0.00
MW012	11/10/2004	18.24	7.70	2.94	1.98	205	0.00	0.00
MW012	11/16/2004	19.94	7.39	3.69	2.54	106	0.00	0.00
MW012	12/28/2004	15.80	7.06	4.35	1.70	157	0.00	0.00
MW012	1/18/2005	11.70	6.77	4.46	5.17	309	0.00	0.00
MW012	2/9/2005	16.11	6.82	4.32	4.94	337	0.00	0.00
MW012	3/10/2005	19.77	7.64	2.89	0.26	7.64	0.00	0.00
MW012	4/13/2005	16.67	6.54	3.44	1.41	250	0.00	0.00
MW012	5/17/2005	20.54	5.64	3.01	0.43	163	0.00	0.00
MW012	6/9/2005	22.87	6.15	3.55	0.38	207	0.00	0.00
MW012	6/9/2005	22.87	6.15	3.55	0.38	207	0.00	0.00
MW012	7/11/2005	23.20	6.51	3.61	0.42	-71	0.00	0.00
MW012	8/8/2005	23.72	6.50	3.35	1.18	-140		
MW012	9/1/2005	24.65	6.37	3.62	0.33		0.00	0.00
MW012		22.65				208	0.00	0.00
	9/19/2005		6.44 6.29	3.26	1.24	255	0.00	0.00
MW012 MW012A	9/29/2005	19.58		4.01	0.70	188	NM	NM
	9/9/2004	22.89	7.61	0.87	0.59	-129	0.00	0.00
MW012A	10/6/2004	20.31	8.36	0.83	1.72	-101	0.00	0.00
MW012A	11/10/2004	20.76	8.48	0.62	1.39	8	0.30	0.00
MW012A	12/28/2004	18.95	7.99	0.89	0.61	354	0.00	0.00
MW012A	1/18/2005	20.84	7.88	0.82	3.99	285	0.06	0.00
MW012A	1/18/2005	20.84	7.88	0.82	3.99	285	0.60	0.00
MW012A	2/10/2005	13.87	7.80	0.64	1.27	353	0.00	0.00
MW012A	3/10/2005	20.62	8.09	0.59	1.05	220	0.00	0.00
MW012A	4/13/2005	22.52	7.31	0.70	0.92	253	0.00	0.00
MW012A	5/12/2005	22.38	6.33	0.68	1.45	109	0.00	0.00
MW012A	6/14/2005	21.54	7.69	0.82	2.20	203	0.00	0.00
MW012A	6/14/2005	21.54	7.69	0.82	2.20	203	0.00	0.00
MW012A	7/12/2005	21.11	5.45	0.76	0.30	231	0.00	0.00
MW012A	8/8/2005	22.82	7.77	0.72	0.60	-254	0.00	0.00
MW012A	9/1/2005	24.71	7.66	0.76	0.90	164	0.00	0.00
MW012A	9/19/2005	23.23	7.78	0.68	0.72	207	0.00	0.00
MW012A	9/29/2005	20.55	7.71	0.75	1.09	140	NM	NM
MW012M	9/9/2004	22.50	7.06	4.05	0.05	-357	0.00	0.35
MW012M	10/6/2004	20.22	7.60	3.45	1.16	-256	0.30	0.00

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Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW012M	11/10/2004	19.27	7.46	2.68	0.98	-250	0.80	0.55
MW012M	12/28/2004	17.69	7.33	3.52	0.47	-84	0.00	0.35
MW012M	1/18/2005	15.95	7.30	3.07	0.96	-96	0.00	12.70
MW012M	1/18/2005	15.95	7.30	3.07	0.96	-96	1.00	1.52
MW012M	2/9/2005	16.65	7.34	2.78	0.80	-117	0.00	1.55
MW012M	3/10/2005	21.35	7.65	2.11	0.24	-204	0.00	1.60
MW012M	4/13/2005	19.31	6.98	2.39	0.74	-57	0.20	1.20
MW012M	5/17/2005	21.42	7.16	2.48	0.18	-175	1.00	2.25
MW012M	6/14/2005	24.20	7.24	2.69	0.75	-147	0.00	1.95
MW012M	6/14/2005	24.20	7.24	2.69	0.75	-147	0.00	1.95
MW012M	7/12/2005	21.68	8.75	2.66	0.22	-110	0.00	2.25
MW012M	8/9/2005	22.59	7.14	2.74	0.77	-325	0.00	12.50
MW012M	9/1/2005	25.36	6.71	2.94	0.33	-78	0.00	0.00
MW012M	9/19/2005	27.90	7.13	2.59	0.78	-52	0.00	0.70
MW012M	9/29/2005	19.81	6.80	3.36	0.54	26	NM	NM
MW013	1/10/2005	20.48	6.96	4.32	19.90	103	NM	NM
MW013	6/3/2005	21.10	7.09	4.77	NM	NM	0.00	0.00
MW013A	1/11/2005	20.78	7.29	0.97	19.40	78	NM	NM
MW013A	6/3/2005	20.70	7.69	0.89	NM	NM	0.00	0.00
MW014	1/10/2005	20.55	7.01	5.70	1.54	171	NM	NM
MW014	6/8/2005	21.20	6.73	5.16	NM	NM	0.00	0.00
MW014A	12/16/2004	20.57	7.29	0.68	4.38	126	NM	NM
MW014A	6/2/2005	22.10	7.67	0.60	NM	NM	0.00	0.00
MW015	1/4/2005	19.10	6.91	6.43	5.22	211	NM	NM
MW015	6/3/2005	19.30	6.81	8.22	NM	NM	0.00	0.00
MW015A	12/20/2004	20.37	6.87	3.28	6.04	232	NM	NM
MW015A	6/2/2005	20.60	7.21	3.68	NM	NM	0.00	0.00
MW.016A	12/16/2004	20.54	7.15	1.39	5.24	135	NM	NM
MW016A	6/2/2005	20.60	7.46	1.51	NM	NM	0.00	0.00
MW017A	1/4/2005	20.33	7.48	0.71	5.78	185	NM	NM
MW017A	6/3/2005	20.50	7.70	0.81	NM	NM	0.00	0.00
MW018	12/20/2004	20.14	6.91	1.83	6.38	253	NM	NM
MW018	5/31/2005	20.30	7.26	1.47	NM	NM	NM	NM
MW018A	12/16/2004	19.87	6.95	1.35	7.00	122	NM	NM
MW018A	5/31/2005	20.60	7.37	1.24	NM	NM	0.00	0.00
MW019A	12/20/2004	20.01	6.99	1.97	6.08	229	NM	NM
MW019A	5/31/2005	20.40	7.41	1.46	NM	NM	NM	NM
MW020	1/3/2005	20.14	6.90	3.95	3.41	99	NM	NM
MW020	5/26/2005	20.40	7.12	3.58	NM	NM	NM	NM
MW020A	1/3/2005	20.98	7.13	2.69	3.79	83	NM	NM
MW020A	5/31/2005	20.20	7.34	2.24	NM	NM	NM	NM
MW021	12/21/2004	20.33	6.72	2.86	1.11	220	0.00	NM
MW021	5/27/2005	21.10	7.09	2.47	NM	NM	0.00	0.00
MW021A	12/21/2004	20.61	6.38	18.50	0.59	275	NM	NM
MW021A	6/6/2005	20.80	6.77	12.52	NM	NM	0.00	0.00
MW022A	1/6/2005	21.48	6.84	2.34	NM	71	NM	NM
MW022A	6/3/2005	22.00	7.25	1.62	NM	NM	0.00	0.00
								
MW023	1/12/2005	19.62	7.09	4.66	5.96	260	NM	NM

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW023A	12/14/2004	19.74	7.29	0.70	5.98	104	NM	NM
MW023A	6/2/2005	20.80	7.67	0.62	NM	NM	NM	NM
MW024	12/28/2004	20.61	7.05	1.71	4.28	104	NM	NM
MW024	6/2/2005	20.40	7.27	1.76	NM	NM	0.00	0.00
MW024A	1/6/2005	20.62	7.05	2.93	19.99	75	NM	NM
MW024A	6/3/2005	20.80	7.62	1.47	NM	NM	0.00	0.00
MW025	1/3/2005	20.20	6.22	1.97	2.39	266	NM	NM
MW025	6/2/2005	20.00	6.92	2.47	NM	NM	NM	NM
MW026	12/13/2004	20.19	6.86	2.53	5.08	146	NM	NM
MW026	6/3/2005	22.10	7.08	2.93	NM	NM	0.00	0.00
MW027	12/20/2004	21.04	6.97	1.89	5.42	256	NM	NM
MW027	6/2/2005	24.30	7.22	2.13	NM	NM	0.00	0.00
MW028	12/6/2004	19.74	7.27	2.93	1.42	20	NM	NM
MW028	5/25/2005	20.70	7.34	3.38	NM	NM	NM	NM
MW029	12/7/2004	19.80	7.21	0.96	6.52	36	0.00	NM
MW029	5/24/2005	20.70	7.51	1.09	NM	NM	NM	NM
MW030	12/13/2004	19.77	7.09	1.53	4.46	139	NM	NM
MW030	5/26/2005	19.90	7.46	1.72	NM	NM	NM	NM
MW031	12/9/2004	20.38	6.52	1.19	0.39	36	0.00	NM
MW031	5/24/2005	21.50	7.07	1.24	NM	NM	NM	NM
MW032	12/8/2004	21.02	6.99	1.48	4.32	101	0.00	NM
MW032	5/24/2005	24.10	7.25	1.63	NM	NM	NM.	NM
MW033	1/13/2005	20.85	7.38	2.95	0.67	-10	1.60	0.00
MW033	5/25/2005	21.40	7.25	3.05	NM .	NM	0.00	0.00
MW034	1/5/2005	20.17	7.07	2.92	2.98	200	0.00	0.00
MW034	6/7/2005	22.30	7.09	2.34	NM	NM	0.00	0.00
MW035	12/21/2004	20.44	6.57	1.01	3.94	315	0.00	NM
MW035	5/25/2005	21.80	6.96	0.89	NM	NM	0.00	0.00
MW036	1/12/2005	21.40	6.79	2.85	0.60	94	3.60	0.00
MW036	5/31/2005	21.90	6.73	2.75	NM	NM	3.20	0.00
MW037	1/12/2005	20.57	6.70	2.31	17.30	-150	NM	NM
MW037	5/26/2005	20.80	7.08	2.53	NM	NM	2.20	0.00
MW038	1/12/2005	21.15	6.80	2.69	0.71	110	1.40	0.00
MW038	5/31/2005	23.10	6.87	2.73	NM	NM	1.20	0.00
MW039A	1/6/2005	21.26	7.24	1.48	19.99	0	NM	NM
MW039A	6/8/2005	22.50	7.55	1.23	NM	NM	0.00	0.00
MW040A	12/15/2004	20.28	7.51	0.64	5.84	56	NM	NM
MW040A	5/24/2005	21.60	7.88	0.73	NM	NM	0.00	0.00
MW041A	1/10/2005	20.73	6.97	2.48	18.20	87	NM	NM
MW041A	6/7/2005	22.30	7.12	2.74	NM	NM	0.00	0.00
MW042A	12/9/2004	20.64	6.68	10.98	0.94	28	NM	NM
MW042A	6/3/2005	20.90	7.05	12.94	NM	NM	0.00	0.00
MW043	12/28/2004	20.44	7.02	2.18	0.32	24	NM	NM
MW043	5/27/2005	20.90	7.36	1.91	NM	NM	0.06	0.02
MW044	1/5/2005	19.74	6.76	3.46	0.85	214	NM	NM
MW044	6/9/2005	23.40	6.69	3.01	NM	NM	0.00	0.00
MW045	1/12/2005	20.40	6.75	1.99	0.64	146	NM	NM
MW045	5/27/2005	21.40	6.72	2.39	NM	NM	0.00	0.00
MW046	1/12/2005	20.69	6.74	1.50	17.40	-85	NM	NM

Station Name	Date	Temp-C	рН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW046	5/26/2005	21.40	6.91	1.44	NM	NM	1.80	0.02
MW046A	1/11/2005	21.75	6.53	2.78	17.60	105	NM	NM
MW046A	5/24/2005	23.00	6.84	3.02	NM	NM	0.00	0.00
MW047	1/5/2005	20.48	7.15	2.53	3.78	193	NM	NM
MW047	6/6/2005	21.30	7.09	3.14	NM	NM	0.00	0.00
MW048SA	1/6/2005	19.94	7.43	1.93	5.34	176	NM	NM
MW048SA	6/7/2005	20.30	6.99	2.56	NM	NM	0.00	0.00
MW049SA	1/6/2005	19.12	6.91	7.65	1.12	169	0.00	0.00
MW049SA	6/6/2005	21.10	6.96	6.00	NM	NM	0.00	0.00
MW050SA	1/5/2005	19.78	7.21	3.63	3.98	207	NM	NM
MW050SA	6/8/2005	22.20	7.00	4.02	NM	NM	0.00	0.00
MW051SA	1/11/2005	20.34	7.10	5.05	2.36	177	NM	NM
MW051SA	6/7/2005	20.50	6.75	5.86	NM	NM	0.00	0.00
MW052SA	1/11/2005	20.01	6.93	4.67	2.83	192	NM	NM
MW052SA	6/1/2005	21.30	6.83	4.13	NM	NM	NM	NM
MW053SA	1/11/2005	20.02	7.43	1.42	5.65	173	NM	NM
MW053SA	6/1/2005	21.10	7.32	1.18	NM	NM	NM	NM
MW054SA	1/10/2005	19.95	7.25	3.39	4.14	190	NM	NM
MW054SA	6/7/2005	20.30	6.85	3.86	NM	NM	0.00	0.00
MW055SA	9/1/2004	20.63	7.29	3.02	4.52	7	0.00	0.00
MW055SA	9/27/2004	20.08	7.68	3.06	4.51	337	0.00	0.00
MW055SA	1/6/2005	18.95	7.35	2.24	4.78	193	NM	NM
MW055SA	1/6/2005	18.95	7.35	2.24	4.28	193	0.00	0.00
MW055SA	6/7/2005	20.50	6.98	2.63	NM	NM	0.00	0.00
MW056SA	1/11/2005	19.69	7.15	4.39	5.10	247	NM	NM
MW056SA	6/6/2005	21.10	7.23	4.07	NM	NM	0.00	0.00
MW057SA	12/15/2004	19.43	6.84	1.97	5.48	92	NM	NM
MW057SA	6/1/2005	19.70	7.24	1.64	NM	NM	0.00	0.00
MW058	1/3/2004	20.62	6.65	2.63	6.11	189	NM	NM
MW058	6/8/2005	20.50	7.09	3.23	NM	NM	0.00	0.00
MW059	12/14/2004	19.72	7.12	2.10	2.16	95	NM	NM
MW059	6/8/2005	20.50	7.19	2.46	NM	NM	0.00	0.00
MW060	1/4/2005	21.11	7.00	4.69	0.59	131	NM	NM
MW060	6/30/2005	21.52	7.03	3.94	0.20	-140	0.00	0.00
MW061	1/11/2005	20.60	6.96	4.01	18.00	103	NM	NM
MW061	6/9/2005	20.40	7.01	4.33	NM	NM	0.00	0.00
MW062A	12/21/2004	20.33	7.38	0.79	6.75	324	NM	NM
MW062A	5/25/2005	21.60	7.69	0.68	NM	NM	NM	NM
MW063A	12/14/2004	20.26	7.51	0.64	5.70	43	NM	NM
MW063A	5/24/2005	23.60	7.95	0.73	NM	NM	0.00	0.00
MW064SA	9/1/2004	22.08	7.07	5.70	2.04	-15	1.40	0.00
MW064SA	9/27/2004	26.14	7.32	6.09	2.47	343	0.00	0.00
MW064SA	12/9/2004	17.81	6.89	4.17	1.99	78	0.00	0.00
MW064SA	1/12/2005	19.80	6.79	4.21	18.40	-2	NM	NM
MW064SA	1/27/2005	14.39	4.86	8.52	0.39	-118	0.00	0.00
MW064SA	3/1/2005	18.00	7.03	4.93	2.00	166	0.80	0.00
MW064SA	3/24/2005	20.97	6.40	4.71	1.99	399	0.00	0.00
MW064SA	4/27/2005	22.72	6.20	3.91	2.12	365	0.00	0.00
MW064SA	5/24/2005	24.98	6.91	4.65	5.00	182	0.00	0.00

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Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW064SA	6/28/2005	25.75	1.90	4.54	1.63	290	0.00	0.00
MW064SA	6/28/2005	25.75	1.90	4.54	1.63	290	0.00	0.00
MW064SA	7/14/2005	24.07	5.05	4.43	3.00	315	0.00	0.00
MW064SA	8/24/2005	24.31	6.79	4.62	4.90	59	0.00	0.00
MW065SA	12/15/2004	19.95	6.84	3.51	6.33	100	NM	NM
MW065SA	6/2/2005	20.90	7.12	3.28	NM	NM	0.00	0.00
MW066SA	1/10/2005	20.00	6.99	4.59	6.26	249	NM	NM
MW066SA	1/10/2005	20.00	6.99	4.59	6.26	249	0.00	0.00
MW066SA	1/26/2005	19.95	6.77	4.27	6.42	468	0.00	0.00
MW066SA	2/23/2005	19.81	6.97	4.36	5.83	174	0.00	0.00
MW066SA	3/30/2005	19.82	6.80	4.27	4.59	-5	0.00	0.00
MW066SA	4/25/2005	20.76	6.60	4.50	4.13	504	0.30	0.00
MW066SA	5/25/2005	20.40	7.01	5.24	NM	NM	0.00	0.00
MW066SA	6/30/2005	20.51	6.82	5.46	6.66	82	0.00	0.00
MW066SA	7/18/2005	23.24	7.14	3.93	6.26	-121	0.00	0.00
MW067SA	12/16/2004	20.03	7.11	1.53	4.34	120	NM	NM
MW067SA	6/1/2005	21.90	7.30	1.29	NM	NM	NM	NM
MW068	12/9/2004	19.95	6.94	5.39	1.10	86	0.00	NM
MW068	5/24/2005	20.20	7.20	6.05	NM	NM	NM	NM
MW069	12/9/2004	20.92	6.28	11.35	0.41	14	0.00	NM
MW069	5/26/2005	20.50	6.68	9.18	NM	NM	NM	NM
MW070	12/9/2004	20.72	7.15	0.83	5.94	92	0.00	NM
MW070	5/24/2005	21.10	7.54	0.99	NM	NM	NM	NM
MW070A	12/15/2004	20.82	7.44	0.66	3.58	60	NM	NM
MW070A	6/1/2005	21.20	7.73	0.60	NM	NM	NM	NM
MW071SA	11/17/2004	19.51	7.38	2.85	3.31	209	0.00	0.00
MW071SA	12/2/2004	20.09	7.11	2.84	3.71	222	0.00	0.00
MW071SA	1/6/2005	19.72	7.08	2.97	2.17	227	0.00	NM
MW071SA	1/6/2005	19.72	7.08	2.97	2.17	227	0.00	0.00
MW071SA	2/7/2005	20.03	7.00	2.72	0.16	407	0.00	0.00
MW071SA	3/7/2005	19.98	7.20	3.15	0.21	173	0.00	0.00
MW071SA	4/14/2005	20.49	6.72	3.07	0.16	200	0.00	0.00
MW071SA	5/10/2005	20.07	6.35	2.81	0.18	290	0.00	0.00
MW071SA	6/2/2005	20.90	6.90	2.66	NM	NM	0.00	0.00
MW071SA	6/2/2005	20.90	6.90	2.66	NM	NM	0.00	0.00
MW071SA	7/7/2005	20.74	6.85	2.53	9.29	-285	0.00	0.00
MW072SA	12/20/2004	20.49	6.82	2.42	5.38	256	NM	NM
MW072SA	1/26/2005	20.14	6.97	1.98	4.90	404	0.00	0.00
MW072SA	2/23/2005	20.19	7.27	1.95	4.78	120	0.00	0.00
MW072SA	3/3/2005	17.06	7.19	2.02	4.28	-20	0.00	0.00
MW072SA	4/25/2005	20.53	6.80	1.94	3.35	413	0.00	0.00
MW072SA	5/25/2005	20.30	7.29	2.30	NM	NM	0.00	0.00
MW072SA	6/30/2005	20.30	7.11	2.30	5.65	62	0.00	0.00
MW072SA	7/18/2005	21.98	7.32	2.00	6.34	-131	0.00	0.00
MW073SA	12/16/2004	20.07	6.77	1.61	1.25	111	NM	NM
MW073SA	5/31/2005	20.40	7.13	1.91	NM	NM	NM	NM
MW074SA	12/7/2004	19.87	7.13	2.87	5.64	50	0.00	NM
				·	 			
MW074SA MW075SA	5/31/2005 12/7/2004	20.60 19.84	7.14 6.97	3.34 3.39	NM 5.87	NM 104	0.00	0.00 NM

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW075SA	6/1/2005	20.00	7.14	3.97	NM	NM	NM	NM
MW076SA	12/7/2004	20.02	7.02	2.45	5.85	114	0.00	NM
MW076SA	6/1/2005	19.90	7.22	2.96	NM	NM	0.00	0.00
MW077SA	12/8/2004	19.87	6.95	6.52	0.50	64	0.00	NM
MW077SA	6/1/2005	20.00	6.94	7.19	NM	NM	0.00	0.00
MW078SA	12/8/2004	20.30	6.99	1.23	2.60	72	0.00	NM
MW078SA	6/1/2005	21.40	7.27	0.96	NM	NM	NM	NM
MW079SA	9/28/2004	20.57	6.24	5.79	0.09	-269	3.20	0.00
MW079SA	11/22/2004	18.88	5.54	4.17	0.16	-213	0.00	0.00
MW079SA	1/5/2005	13.87	6.59	4.20	0.30	-105	1.00	12.50
MW079SA	1/5/2005	13.87	6.59	4.20	0.30	-105	1.00	1.30
MW079SA	1/27/2005	14.38	6.01	3.69	0.71	-46	1.60	1.15
MW079SA	2/16/2005	17.71	5.47	4.15	0.50	-27	5.20	0.45
MW079SA	3/15/2005	18.44	6.29	4.52	0.73	-24	1.00	1.00
MW079SA	4/18/2005	20.47	6.29	4.25	0.31	-34	2.40	1.25
MW079SA	6/2/2005	20.78	6.16	4.80	0.22	-144	NM	NM
MW079SA	6/20/2005	23.54	6.49	4.47	0.45	-131	0.60	1.30
MW079SA	7/20/2005	21.77	6.32	4.44	0.50	-340	1.00	1.00
MW079SA	8/25/2005	22.42	6.13	4.19	0.45	-239	4.60	0.00
MW079SA	9/21/2005	22.58	6.43	3.73	0.22	8	0.80	2.05
MW080SA	9/28/2004	20.58	7.30	3.97	2.84	-121	1.00	0.00
MW080SA	10/12/2004	19.27	6.22	3.87	3.15	304	0.00	0.00
MW080SA	11/23/2004	18.24	6.71	2.78	3.44	45	0.00	0.00
MW080SA	1/5/2005	17.32	7.13	2.80	3.07	569	0.00	0.00
MW080SA	1/5/2005	17.32	7.13	2.80	3.07	268	0.00	0.00
MW080SA	1/27/2005	16.39	6.96	2.90	1.14	282	NM	NM
MW080SA	2/16/2005	17.44	6.91	2.73	0.74	68	0.30	0.00
MW080SA	3/16/2005	16.72	6.72	3.19	0.74	6	NM	NM
MW080SA	4/18/2005	23.01	6.82	3.00	2.45	228	0.00	0.00
MW080SA	6/2/2005	25.14	7.02	3.47	4.23	157	0.80	1.70
MW080SA	6/20/2005	23.10	7.10	3.40	0.50	42	0.60	0.00
MW080SA	7/20/2005	22.13	6.84	3.19	1.19	-203	0.00	0.00
MW080SA	8/25/2005	21.85	6.38	3.02	0.60	-190	4.00	0.00
MW080SA	9/21/2005	24.74	6.64	2.73	0.84	201	0.00	0.20
MW081SA	9/28/2004	20.47	6.28	5.33	0.11	-278	3.00	0.15
MW081SA	11/23/2004	18.18	5.91	4.41	0.17	-219	0.80	1.50
MW081SA	1/5/2005	19.06	6.31	3.72	0.17	-80	1.20	1.25
MW081SA	1/13/2005	20.39	5.71	3.88	10.30	-214	3.00	1.00
MW081SA	1/27/2005	14.73	6.49	4.03	0.86	-29	0.40	1.55
MW081SA	2/16/2005	15.66	6.47	4.21	0.64	-55	NM	NM
MW081SA	3/16/2005	16.98	6.52	4.49	0.87	-77	0.00	2.05
MW081SA	4/19/2005	16.98	6.79	4.32	2.88	-47	1.20	2.05
MW081SA	6/2/2005	21.25	6.62	7.66	1.74	-145	0.60	0.95
MW081SA	6/21/2005	21.25	6.53	4.48	0.96	-111	0.80	1.70
MW081SA	7/20/2005	22.94	6.57	4.51	0.88	-327	0.60	2.25
MW081SA	8/25/2005	22.42	6.31	4.39	0.38	-232	3.80	0.00
MW081SA	9/21/2005	22.82	6.54	4.17	0.32	81	2.40	1.05
MW082SA	9/1/2004	21.76	4.86	14.52	0.35	-165	9.20	
MW082SA	9/24/2004	25.55	4.57	11.53	0.33	159	0.00	0.00

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Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW082SA	12/8/2004	19.19	4.46	8.32	0.28	-123	6.20	0.00
MW082SA	1/12/2005	20.71	5.52	4.91	12.90	-246	4.00	1.50
MW082SA	3/16/2005	10.50	5.65	9.46	1.12	10	6.40	1.50
MW082SA	3/24/2005	19.90	4.98	5.60	0.23	-148	2.40	0.55
MW082SA	4/27/2005	18.11	4.94	4.96	0.32	26	1.80	1.10
MW082SA	5/25/2005	81.80	5.11	8.43	0.41	-56	2.20	0.95
MW082SA	6/28/2005	24.48	8.23	6.37	0.21	-57	12.00	1.10
MW082SA	6/28/2005	24.48	8.23	6.37	0.21	-57	2.40	1.10
MW082SA	7/14/2005	22.23	8.05	6.28	0.22	-18	1.20	2.25
MW082SA	8/25/2005	21.80	5.26	6.22	1.36	-177	6.00	0.00
MW083SA	9/1/2004	23.42	4.73	13.26	0.37	-73	9.60	0.00
MW083SA	9/24/2004	25.42	4.83	12.89	0.20	-7	5.00	0.00
MW083SA	12/8/2004	19.52	4.28	7.47	0.38	-93	5.80	1.24
MW083SA	1/13/2005	19.30	5.10	5.67	10.40	-176	4.00	0.00
MW083SA	3/1/2005	17.10	5.64	8.09	2.82	11	6.20	1.20
MW083SA	3/24/2005	22.72	5.05	7.23	0.19	-131	2.60	0.45
MW083SA	4/27/2005	20.45	4.83	5.12	0.38	69	1.40	0.75
MW083SA	5/25/2005	20.46	4.76	6.01	2.65	24	7.40	0.70
MW083SA	6/28/2005	25.86	6.18	6.17	0.42	44	14.00	0.20
MW083SA	6/28/2005	25.86	6.18	6.17	0.42	44	2.80	0.20
MW083SA	7/14/2005	22.56	7.51	6.54	0.14	3	3.00	1.10
MW083SA	8/24/2005	22.90	4.63	6.09	0.87	-118	7.00	0.00
MW084SA	9/1/2004	21.85	6.97	9.53	1.56	50	0.30	0.00
MW084SA	9/27/2004	21.40	7.22	9.59	2.91	308	3.40	0.00
MW084SA	12/9/2004	17.83	6.86	6.67	2.19	123	0.00	0.00
MW084SA	1/13/2005	15.25	6.73	6.23	2.25	142.7	0.80	0.00
MW084SA	1/13/2005	15.25	6.73	6.24	2.25	143	0.80	0.00
MW084SA	3/2/2005	14.16	7.32	7.34	3.17	122	0.20	0.00
MW084SA	3/24/2005	20.02	7.06	5.77	6.71	0.71	0.04	0.00
MW084SA	4/27/2005	20.98	6.41	6.84	1.98	-52	0.00	0.00
MW084SA	5/24/2005	24.98	6.76	7.86	2.01	205	0.00	0.00
MW084SA	6/28/2005	31.10	2.21	7.18	1.09	302	0.00	0.00
MW084SA	6/28/2005	31.10	2.21	7.18	1.09	302	0.00	0.00
MW084SA	7/18/2005	20.35	5.33	7.07	0.33	148	0.00	0.00
MW084SA	8/24/2005	23.06	6.61	7.40	4.74	114	0.00	0.00
MW085SA	9/1/2004	22.54	6.97	7.21	1.62	-20	0.00	0.00
MW085SA	9/24/2004	22.32	7.24	7.35	1.63	321	1.00	0.00
MW085SA	12/9/2004	17.16	6.96	4.65	1.34	17	0.00	. 0.00
MW085SA	1/13/2005	13.89	6.63	5.00	2.60	208	0.20	0.00
MW085SA	1/13/2005	13.89	6.63	5.00	2.60	208	0.20	0.00
MW085SA	3/1/2005	18.33	6.84	5.73	1.64	150	1.00	0.00
MW085SA	3/24/2005	19.03	6.37	5.35	1.26	345	0.00	0.00
MW085SA	4/27/2005	22.62	6.09	4.73	0.67	290	0.00	0.00
MW085SA	5/24/2005	23.98	6.77	5.44	0.57	105	NM	NM
MW085SA	6/20/2005	26.17	6.72	5.72	1.88	215	0.00	0.00
MW085SA	6/20/2005	26.17	6.72	5.72	1.88	215	0.00	0.00
MW085SA	7/18/2005	21.35	5.43	5.36	0.19	125	0.00	0.00
MW085SA	8/24/2005	22.60	6.65	5.61	0.90	5	0.00	0.00
MW086SA	1/13/2005	19.88	6.49	6.30	13.30	-31	0.00	0.00

Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW086SA	6/2/2005	21.10	6.88	4.57	NM	NM	0.00	0.00
MW087A	11/9/2004	15.56	7.89	3.79	3.38	212	0.00	0.00
MW087A	12/16/2004	15.03	6.92	5.53	2.39	343	0.00	0.00
MW087A	1/13/2005	18.24	6.68	4.70	0.63	125	0.08	0.00
MW087A	2/8/2005	12.64	6.76	5.69	1.73	345	0.00	0.00
MW087A	3/8/2005	18.90	6.85	4.64	0.82	107	0.40	0.05
MW087A	5/11/2005	20.52	6.23	4.45	0.47	258	0.30	0.00
MW087A	6/7/2005	24.95	7.00	5.72	0.59	75	0.00	0.00
MW087A	7/6/2005	20.24	6.90	5.66	0.38	-143	0.00	0.00
MW087A	8/2/2005	36.16	6.79	4.17	1.24	-73	0.00	0.00
MW087A	9/7/2005	25.73	6.11	5.33	0.17	92	0.00	0.00
MW087A	9/28/2005	27.19	6.98	4.29	6.28	221	NM	NM
MW088M	11/10/2004	21.26	5.65	10.53	0.35	-14	9.60	0.00
MW088M	12/28/2004	19.89	5.71	16.50	0.24	7	9.40	0.00
MW088M	1/19/2005	19.41	5.69	11.85	0.43	188	42.00	0.00
MW088M	1/19/2005	19.78	5.69	11.89	0.60	185	8.40	0.00
MW088M	2/10/2005	10.48	5.54	10.47	0.92	201	3.40	0.00
MW088M	3/10/2005	20.17	5.81	12.62	0.28	18	1.80	0.50
MW088M	4/13/2005	11.84	5.64	11.84	0.24	117	2.00	0.30
MW880WM	5/17/2005	29.02	5.50	10.49	0.16	-29	3.20	0.00
MW880WM	5/31/2005	20.90	6.36	4.89	NM	NM	4.20	3.75
MW880WM	5/31/2005	20.90	6.36	4.89	NM	NM	4.20	0.75
MW880WM	7/12/2005	22.97	5.48	13.41	0.26	-276	7.00	0.75
MW088M	7/12/2005	22.97	5.48	13.41	0.26	-276	7.00	0.75
MW088M	8/9/2005	22.73	5.61	12.70	0.23	-297	3.00	0.00
MW088M	9/2/2005	25.15	5.51	12.28	0.17	99	5.00	0.00
MW088M	9/19/2005	23.32	5.48	12.25	0.24	165	2.40	0.56
MW088M	9/29/2005	20.21	5.34	13.66	0.20	135	NM	NM
Rowla0.0WW	1/13/2005	19.88	7.24	2.87	5.82	293	NM	NM
Rowla0.0WW	6/7/2005	22.80	7.15	2.73	NM	NM	0.80	0.00
RW002	9/16/2004	20.54	6.65	7.06	0.29	261	0.00	0.00
RW002	10/7/2004	20.34	6.58	7.00	0.42	23	0.00	0.00
RW002	11/17/2004	20.56	6.31	4.54	1.45	142	0.00	0.00
RW002	12/20/2004	19.94	6.14	6.95	0.94	215	0.00	0.00
RW002	12/29/2004	20.67	5.25	4.80	0.38	18	0.00	0.00
RW002	1/25/2005	20.13	6.18	4.70	1.53	189	4.00	0.00
RW002	2/9/2005	10.23	6.00	5.57	1.26	214	2.20	0.00
RW002	3/9/2005	19.89	6.47	4.67	2.19	70	0.80	0.00
RW002	4/12/2005	23.59	6.33	3.10	0.70	155	1.60	0.00
RW002	5/12/2005	26.28	5.49	4.22	0.84	131	1.80	0.95
RW002	6/8/2005	27.99	6.31	5.93	0.53	-45	2.00	2.05
RW002	6/8/2005	27.99	6.31	5.93	0.53	-45	2.00	2.05
RW002	7/7/2005	23.01	5.75	5.82	0.21	-311	3.00	1.75
RW002	8/8/2005	30.44	9.44	5.13	0.11	-246	3.00	0.00
RW002	9/1/2005	33.79	6.29	5.86	1.22	45	0.00	0.00
RW002	9/16/2005	20.75	6.01	5.63	0.47	69	3.60	1.95
RW002	9/29/2005	18.36	5.88	6.16	0.97	75	NM	NM
RW002L	10/6/2004	18.78	6.17	5.91	1.05	-55	0.00	0.00
RW002-L	8/11/2004	26.90	6.40	7.55	0.37	127	0.20	0.00

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Station Name	Date	Temp-C	pН	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
RW002-L	11/15/2004	14.95	6.36	4.60	0.94	257	0.00	0.00
RW003	9/9/2004	23.53	6.03	4.18	1.24	51	0.00	0.00
RW003	10/7/2004	22.44	5.77	3.43	0.77	-74	0.30	0.00
RW003	11/10/2004	22.54	6.23	3.21	1.27	149	0.00	0.00
RW003	12/28/2004	9.67	6.18	5.00	2.66	290	0.00	0.00
RW003	1/18/2005	18.80	6.10	4.10	1.09	100	6.20	0.22
RW003	1/18/2005	18.80	6.10	4.10	1.09	100	6.20	0.22
RW003	2/10/2005	13.76	6.30	3.59	1.65	6	3.20	0.30
RW003	3/10/2005	20.56	6.40	3.79	6.00	-46	1.20	1.80
RW003	4/13/2005	24.71	6.12	3.21	0.44	-61	1.20	1.20
RW003	5/18/2005	23.30	6.70	3.30	0.27	-162	1.20	0.32
RW003	6/14/2005	21.80	6.64	3.52	1.09	-144	0.00	1.10
RW003	6/14/2005	21.80	6.64	3.52	1.09	-144	0.00	1.10
RW003	8/10/2005	25.28	6.17	4.99	3.87	-364	1.50	1.00
RW003	9/2/2005	23.45	6.39	3.04	0.57	26	1.50	0.00
RW003	9/19/2005	22.93	6.34	3.34	0.53	135	1.60	1.60
RW003	9/29/2005	22.64	6.31	3.96	1.42	183	NM	NM
RW004A	9/16/2004	24.28	3.96	11.48	0.24	-30	6.80	0.00
RW004A	10/5/2004	20.57	3.58	14.59	1.53	431		
RW004A	11/9/2004	22.83	3.47	9.22	0.29	135	8.80	0.00
RW004A	12/20/2004	19.09	3.90	11.03	0.17	260	7.40	0.00
RW004A	1/18/2005	12.10	3.59	4.01	0.45	1.92	27.00	0.00
RW004A	1/18/2005	12.10	3.59	4.01	0.45	192	8.40	0.00
RW004A	2/14/2005	20.04	3.64	2.75	0.38	275	8.40	0.00
RW004A	3/8/2005	20.98	3.29	1.04	0.31	86	4.00	0.00
RW004A	4/11/2005	20.66	4.71	4.28	0.90	194	4.60	0.00
RW004A	5/12/2005	23.31	1.09	3.92	0.15	-3	9.00	0.00
RW004A	6/8/2005	21.19	3.62	3.95	0.35	230	8.00	0.00
RW004A	6/8/2005	21.19	3.62	3.95	0.35	230	1.60	0.00
RW004A	7/7/2005	24.25	3.01	4.07	0.19	-134	5.00	0.25
RW004A	8/4/2005	26.65	4.17	2.27	0.25	129	4.00	0.00
RW004A	9/15/2005	31.93	3.84	1.16	0.27	243	NM	NM
RW004A	9/28/2005	29.55	4.13	0.94	0.93	179	NM	NM
WoodellWW	12/21/2004	19.20	6.63	3.61	5.41	335	NM	NM
WoodellWW	5/25/2005	21.60	7.43	2.59	NM	NM	NM	NM

Notes:

Temp-C - Temperaure in degrees Celsius

SpC-mS/cm - Specific Conductance in Millisiemens per Centimeter

ORP-mV - Oxygen Reduction Potential in millivolts

Fe - Iron in mg/l

NM - Not Measured

DO - Dissolved Oxygen

Sulfide-mg/l

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Table 7
PSH Measurements
ChevronTexaco Eunice #2 (North) Gas Plant

Station Name	Date	Time (min)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	PSH Removed (gal)	Groundwater Removed (gal)
MW005	11/5/2004	626	0	46.64	0	0	0
	12/2/2004	1542	0	46.53	0	0	0
	2/18/2005	920	0	46.28	0	0	0
	3/10/2005	1300	0	46.17	0	0	0
	3/17/2005	1505	0	46.2	0	0	0
	5/13/2005	1035	0	46.12	0	0	0
	6/17/2005	1050	0	46.2	0	0	0
MW006	9/10/2004	1330	47.3	49.51	2.21	3.5	1.5
	9/14/2004	1500	47.33	48.66	1.33	2.25	2.75
	11/5/2004	942	46.98	47.64	99.0	_	1.5
	11/5/2004	1102	47.03	47.1	0.07	NR	NR
	12/2/2004	1557	46.89	47.14	0.25	0.02	0.42
	12/2/2004	1700	46.94	46.99	0.05	NR	A.N.
	12/13/2004	1030	46.93	47.16	0.23	0.2	2.8
	12/13/2004	1120	46.84	46.84	0.01	NR	A.N.
	12/30/2004	1030	46.95	47.13	0.18	0.5	1.5
	2/18/2005	910	46.6	46.78	0.18	0.25	0.75
	3/11/2005	1305	46.51	46.63	0.12	0.25	0.75
	3/17/2005	1508	46.55	46.65	0.1	0.25	0.75
	5/13/2005	1040	46.5	46.63	0.13	NR	N.
	5/13/2005	1100	46.55	46.56	0.01	0.25	1.5
i	6/17/2005	1105	45.59	45.68	60.0	0.5	2.0

Table 8

Analytical Methods, Hold Times, Sample Containers, and Preservatives ChevronTexaco Eunice #2 (North) Gas Plant Eunice, Lea County, New Mexico

Parameter	Analytical Method	Holding Times	Sample Containers and Preservative	
Field Parameters	TATOM O		A A ODGE T HEAT C	
Dissolved Oxygen	Field Probe	Immediate	NA	
Redox potential	Field Probe	Immediate	NA	
Н	Field Probe	Immediate	NA	
`emperature	Field Probe	Immediate	NA	
Specific Conductance	Field Probe	Immediate	NA	
ron, ferrous	HACH Kit	Immediate	NA	
Hydrogen Sulfide	HACH Kit	Immediate	NA NA	
Turbidity	Meter	Immediate	NA	
Organic Analyses	1.70.00		1111	
Benzene	SW-846 8021B	14 Days	40-ml vial; HCl	
Coluene	SW-846 8021B	14 Days	40-ml vial; HCl	
Ethylbenzene	SW-846 8021B	14 Days	40-ml vial; HCl	
Cotal Xylenes	SW-846 8021B	14 Days	40-ml vial, HCl	
TPH (GRO)	SW-846 8015B; TX1005	14 Days	40-ml vial, HCl	
	BW 040 0013B, 1711003	7 days from sample to extraction	40-mi viai, iici	
PH (DRO)	SW-846 8015B	28 days from extraction to analysis	Amber liter; Neat	
norganic Analyses				
Total/Dissolved Chromium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
lexavalent Chromium	SW-846 7197	Immediate	1-Liter; Neat	
Total Arsenic	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Γotal Barium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Fotal Cadmium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Гotal Lead	SW-846 6010B	6 Months	500-ml plastic, HNO3	
Гotal Mercury	SW-846_7470A	28 Days	500-ml plastic; HNO3	
Гotal Selenium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Γotal Silver	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Carbonate	SM2320B	14 Days	1-Liter; Neat	
Bicarbonate	SM2320B	14 Days	1-Liter; Neat	
Γotal Alkalinity	SM2320B	14 Days	1-Liter; Neat	
Total Dissolved Solids	EPA 160.1	7 Days	1-Liter; Neat	
Sulfate	EPA 300.0	28 days	1-Liter; Neat	
Vitrate	EPA 300.0	48 hours	1-Liter; Neat	
Chlorides	EPA 300.0	28 days	1-Liter, Neat	
Calcium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Sodium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Magnesium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Potassium	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Total Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3	
Dissolved Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3	

Appendix A

Bench Scale Design Study

Chevron Eunice #2 (North) Plant Bench Scale Design Study To Determine Parameters for Optimum Molasses Reagent Composition

Set Up and Operation of the Design Study

The purpose of this portion of this proposal is to outline a treatability study intended to evaluate the utilization of molasses both by itself and in the presence of a fatty acid (soy oil) from a bacterial consumption prospective. The study is designed to determine the rate at which molasses organic carbon is microbially processed both in the presence and absence of fatty acid. Specifically, this study will quantify the rate of organic carbon consumption over time with varying amounts of fatty acid present. The volume of gas produced over time will be utilized as a general indicator of biological activity. In addition to gas volume, the main analytical parameter of the study will be dissolved organic carbon (DOC). In the case of methanogenic activity the gases produced will be a blend of methane and carbon dioxide. Once the base degradation rate and the contribution of methanogenesis to that degradation rate has been established a select number of the microcosms will be spiked with iron and sulfate salts to evaluate the retained viability for iron and sulfate reduction in the fatty acid modified environment. In those cases the dominant gas that will be produced will be carbon dioxide.

Microcosms will be constructed in 5-liter media bottles. Approximately 500 grams of soil will be aseptically placed in the each media bottle. Site groundwater will be used to fill the media bottles to the 5-liter mark. Carbon amendments will be added and the headspace of each microcosm will be evacuated with argon gas. Each media bottle will be connected to a separate anaerobic gas collection system consisting of an 1/8" Teflon tube plumbed to a 1-liter tedlar bag. The integrity of each gas collection system will be confirmed by injecting ~ 100 mL of argon gas into each microcosm using a syringe and confirming that the attached tedlar begins to fill. The number of tedlar bags collected over the course of the study will be recorded as a way of means of tracking cumulative gas production. The goal of gas production tracking is understood to be qualitative and with precision more on a 500-mL of gas basis rather than a 1-mL basis. The five treatments created are summarized below:

10% molasses
10% high fructose corn syrup
10% molasses with 1.0% fatty acid
10% high fructose corn syrup with 1.0% fatty acid
10% molasses with 10.0% fatty acid
10% high fructose corn syrup with 10.0% fatty acid

These percentages are percent by volume of the molasses or high fructose corn syrup (HFCS), i.e. the 50% in the overall system would actually be 5% (50% of 10%) in the whole system. The ARCADIS Treatability Laboratory will consult David Vance in the Midland, Texas office for organic carbon loading calculations prior to establishing the microcosms.

Sampling events will take place at time zero, 15 days, 30 days, 60 days, 90 days, and 120 days.

Samples will be taken at 30 days and then the microcosms can be re-spiked with molasses or HFCS at the discretion of the ARCADIS project team to provide an opportunity to watch the potentially variable rate at which molasses is processed on a second injection. The budget contains funds to re-sample the microcosms after 30 day re-spiking if desired.

At the 60 day mark 2 of the microcosms that display adequate inhibition of methanogenesis will be further spiked with ferric sulfate, followed by two more sampling events to evaluate DOC and gas generation (at 30 and 60 days from salt addition, and 120 days of total system time line)

DOC Samples

Water samples from DOC will be collected after thoroughly shaking the microcosms and allowing the soil to settle. The water samples will be centrifuged to remove colloidal soil material and bacteria, preserved and shipped to an analytical lab yet to be selected for standard turnaround time (TAT).

Optional Gas Composition Samples

Gas composition samples can be collected and analyzed at the option of the Midland office. Specifically, carbon dioxide and methane are of interest. Both parameters can be analyzed in gas samples recovered from the tedlar bag collection systems by Microseeps. This optional component adds up to \$8,500 to the total study price if every microcosm is sampled at every specified sample interval. Pricing for gas composition analysis on a lesser number of intervals is available upon request.

The report for this project will include data analysis of the DOC values generated (and gas composition if generated). This project is priced on a lump sum basis at \$12,500 for the set up and DOC analysis, with the highly recommended monitoring of gas composition the cost is \$21,000. The ARCADIS Treatability Laboratory has assumed that the soil and groundwater used to set the study up will be non-hazardous. If regulated material is used to set the study up, the waste can be shipped back to the site and included in investigationally derived waste streams or an additional \$300 fee will be incurred for proper disposal thorough a hazardous waste disposal vender.

Initial Bench Scale Carbon Substrate Study Results Chevron Eunice #2 (North) Plant

	Media - soil cuttings from site monitor wells	te monito	r wells	
01 حاصحی	actor C	0.11.11.0	Baseline, 1/6/05	1/6/05
Sample ID	Uescription!		Reported TOC (mg/L) Total TOC (mg/L)	Total TOC (mg/L)
_	5% HFCS - No treatment	100	190	19,000
. 2	5% HFCS- Treatment with 2% fatty acid	100	180	18,000
3	5% Molasses - No treatment	100	190	19,000
4	5% Molasses - Treatment with 2% fatty acid	100	180	18,000
5	5% Molasses& 1000 mg/L sodium benzoate	100	8.6	860
9	5% Molasses - No treatment for the 1st 30 days	100	130	13,000

Sample ID	Dasonintion	Dili ifion	20 Day	ay
Calliple ID		רומנוסו	Reported TOC (mg/L)	Total TOC (mg/L)
1	5% HFCS - No treatment	100	180	18,000
2	5% HFCS- Treatment with 2% fatty acid	100	180	18,000
3	5% Molasses - No treatment	100	180	18,000
4	5% Molasses - Treatment with 2% fatty acid	100	160	16,000
5	5% Molasses& 1000 mg/L sodium benzoate	100	170	17,000
9	5% Molasses - No treatment for the 1st 30 days	100	120	12,000

Cample	acitairoseO	noi+i-li-C	48 Day	ay
Calliple IC		ומומוטו	Reported TOC (mg/L)	Total TOC (mg/L)
1	5% HFCS - No treatment	10	. 2500	25,000
2	5% HFCS- Treatment with 2% fatty acid	10	2500	25,000
3	5% Molasses - No treatment	10	2600	26,000
4	5% Molasses - Treatment with 2% fatty acid	10	2300	. 23,000
5	5% Molasses& 1000 mg/L sodium benzoate	10	2800	28,000
9	5% Molasses - No treatment for the 1st 30 days	10	1900	19,000

HFCS - high fructose com syrup TOC - total organic carbon

Appendix B

Well Logs



WELL NO.

IW018

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0016 MEAS. PT.: T.O.C. STATIC WATER LEVEL: DATE: TOTAL DEPTH: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" -97.01 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: SITE LOCATION: Eunice, New Mexico **DEPTHS GROUT TYPE:** Portland Cement -21.0' to Surface Lea County, New Mexico DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -26.0' to -21.0' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -96.0' to -26.0' SAMPLE METHOD: Screen CASING TYPE: 4" Diameter Sch. 40 PVC Blank -31.0' to Surface 9/29/05 DATE COMPLETED: 9/29/05 DATE BEGUN: DRILLER: R. Allen **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' R. Lang ELEVATION (T.O.C.): LOGGER: FILE NAME: IW018.dat 31-014-00765 UNIQUE NUMBER: PLUG BACK: Bentonite Chips -97.0' to -96.0' Sampling Method CLASS **OVM READING** WELL LITHOLOGY ANALYZED MOISTURE RECOVERY Ŋ. **DESCRIPTION** INSTALLATION SAMPLED ن Ś \supset 0 SAND 10R 5/8 red, SILT to medium grained, subrounded, poorly sorted, loose, argillaceous. Screen -5 Screen Screen -15 CALICHE 5YR 8/2 pinkish white, soft to hard, indurated. Screen -20 Screen -25 SAND 2.5YR light red, fine grained, subrounded, well sorted, loose, CALICHE nodules. Screen -30 Screen -35 Screen -40 Screen



Screen

Screen

Screen

Screen

-80

-85

-90

WELL LOG

WELL NO.

IW018 Page 2 of 2 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401 PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. TOTAL DEPTH: -97.01 LIENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **DEPTHS** GROUT TYPE: Portland Cement Lea County, New Mexico -21.0' to Surface DRILLING CO: White Drilling Co. **SEAL TYPE:** Bentonite Chips -26.0' to -21.0' DRILLING METHOD: Rotary/Water **SCREEN PACK:** 8/16 Sand -96.0' to -26.0' 4" Diameter Sch. 40 PVC Blank SAMPLE METHOD: Screen CASING TYPE: -31.0' to Surface DATE BEGUN: 9/29/05 DATE COMPLETED: 9/29/05 DRILLER: R. Allen **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' ELEVATION (T.O.C.): LOGGER: R. Lang FILE NAME: IW018.dat UNIQUE NUMBER: 31-014-00765 PLUG BACK: **Bentonite Chips** -97.0' to -96.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED MOISTURE RECOVERY s. DESCRIPTION INSTALLATION SAMPLED Ü DEPTH s. -50 Screen -55 Screen Screen -65 Screen -70 Screen -75 CLAY 2.5YR light red, soft, arenaceous, contains minor amount small GRAVEL to 3 mm.

GRAVEL multicolored CHERT and lithic GRAVEL to 5 mm, subrounded, poorly sorted, loose; CLAY

2.5YR 6/6 ligh red, soft, arenaceous as interbeds beginning at -90'.

CLAY 10R 5/8 red, firm, fat CLAY; CLAY GLEY 2 7/1 light greenish gray.



STATIC WATER LEVEL:

SURFACE COMPLETION:

GROUT TYPE:

SCREEN PACK:

SEAL TYPE:

PLUG BACK:

WELL NO.

IW019

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

DEPTHS

-21.0' to Surface

-26.0' to -21.0'

-96.0' to -26.0'

-31.0' to Surface

-97.0'

DATE:

TOTAL DEPTH:

JENT NAME: ROJECT NAME:

PROJECT NUMBER: MT000700.0016

Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" North Eunice Gas Plant - Medial IRZ Remediation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: White Drilling Co. DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Screen

DATE BEGUN: 9/29/05

DRILLER: R. Allen LOGGER: FILE NAME: IW019.dat

R. Lang

DATE COMPLETED:

ELEVATION (T.O.C.): UNIQUE NUMBER:

9/29/05 **ELEVATION (SURF.):**

31-014-00766

CASING TYPE:

WELL SCREEN:

Portland Cement Bentonite Chips

Bentonite Chips

8/16 Sand 4" Diameter Sch. 40 PVC Blank

4" Diameter Sch. 40 PVC, 0.020" slots

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

-96.0' to -31.0'

-97.0' to -96.0'

SAMPLING METHOD CLASS OVM READING LITHOLOGY ANALYZED MOISTURE RECOVERY Ś SAMPLED ن DEPTH Š. \supset

DESCRIPTION

WELL INSTALLATION

Screen -5 Screen -10

Screen

Screen

Screen

0

-15

-20

-25

-35

-45

CALICHE 5YR 8/3 pink, dry, soft to firm.

SAND 2.5YR 6/8 light red, fine to medium grained, well sorted.

SAND 5YR 7/4 pink, fine grained, subangular, well sorted, loose, CALICHE nodules below -55'.

Screen -30 Screen

Screen

Screen



9/29/05

WELL NO.

IW019

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

DATE:

-97.01

PROJECT NUMBER: MT000700.0016 IENT NAME:

Chevron North America Exploration & Production Co. North Eunice Gas Plant - Medial IRZ Remediation

OJECT NAME: SITE LOCATION:

Eunice, New Mexico

DRILLING CO:

Lea County, New Mexico White Drilling Co.

DRILLING METHOD: Rotary/Water SAMPLE METHOD: Screen

DATE BEGUN: 9/29/05

R. Allen DRILLER: LOGGER: R. Lang FILE NAME: IW019.dat DATE COMPLETED:

ELEVATION (T.O.C.): UNIQUE NUMBER:

ELEVATION (SURF.):

31-014-00766

WELL SCREEN:

STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8" SURFACE COMPLETION: MEAS. PT.: T.O.C.

TOTAL DEPTH:

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab **TYPES DEPTHS**

GROUT TYPE: Portland Cement SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand CASING TYPE: 4" Diameter Sch. 40 PVC Blank

4" Diameter Sch. 40 PVC, 0.020" slots

-31.0' to Surface -96.0' to -31.0'

-21.0' to Surface

-26.0' to -21.0'

-96.0' to -26.0'

PLUG BACK: Bentonite Chips -97.0' to -96.0'

SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED RECOVERY s. DESCRIPTION MOISTURE INSTALLATION SAMPLED ن DEPTH Ś \supset -50 Screen -55 Screen Screen -65 Screen -70 SANDSTONE 10R 4/8 red, very fine grained, well cemented, very hard, silica cement. CLAY 10R 8/4 pink, soft, contains some CHERT and lithic GRAVEL. Screen -75 Screen -80 Screen -85 GRAVEL multicolored CHERT and lithic GRAVEL to 5 mm, subrounded, poorly sorted, loose, Screen arenaceous; CLAY 2.5YR 7/8 light red as soft interbeds, some GRAVEL in CLAY. -90 Screen CLAY 10R 4/8 red, firm, fat CLAY.



-45

WELL LOG

WELL NO.

IW020

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

ROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: TOTAL DEPTH: -98.01 IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8' PROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **TYPES DEPTHS** -22.0' to Surface Lea County, New Mexico **GROUT TYPE:** Portland Cement DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -27.0' to -22.0' -97.0' to -27.0' DRILLING METHOD: Rotary/Water 8/16 Sand SCREEN PACK: SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -32.0' to Surface DATE BEGUN: 9/28/05 DATE COMPLETED: 9/28/05 R. Allen/J, White **ELEVATION (SURF.):** 4" Diameter Sch. 40 PVC, 0.020" slots DRILLER: WELL SCREEN: -97.0' to -32.0' LOGGER: ELEVATION (T.O.C.): R. Lang FILE NAME: IW020.dat UNIQUE NUMBER: 31-014-00767 PLUG BACK: Bentonite Chips -98.0' to -97.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED RECOVERY s. DESCRIPTION MOISTURE INSTALLATION SAMPLED Ü DEPTH Ś 0-SAND 2.5YR 6/8 light red, fine to medium grained, well sorted, loose, CALICHE interbeds or nodules. Split Spoon -5 CALICHE 7.5YR 8/3 pink, soft to firm, some arenaceous below -10'. Split Spoon -10 Shovel -15 Shovel -20 SAND 2.5YR 7/6 light red, medium to fine grained, subrounded, well sorted, loose, CALICHE nodules, rare fine CHERT fragments. Shovel -25 Shove -30 Shovel -35 Shovel -40 Shovel



WELL NO.

IW020

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PI SI D D Si D D	LIEN ROJE RILLI RILLI AMP ATE RILLI OGG	ICT I T NA ICT I OCA NG NG BEG BEG ER:	NUMBE AME: NAME: ATION: CO: METHO METHOI GUN: R. A	R: I	MT00070 Chevron North Eu Eunice, N Lea Cour White Dr Rotary/M Shovel/Sp 9/28/05 n/J. White	00.0016 North A nice Gas lew Mex nty, New illing Co /ater olit Spoo	merica Plant ico Mexico Mexico DATE VATICO	Explora - Medial	tion & Prod IRZ Remed TED: .):	SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Co TYPES GROUT TYPE: Portland Cement -2 SEAL TYPE: Bentonite Chips -2 SCREEN PACK: 8/16 Sand -9 CASING TYPE: 4" Diameter Sch. 40 PVC Blank -3 WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -9	DATE: DEPTH: -98.0' nc. Slab
	DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
	50 -		Shovel								
	50 -		Shovel								
	65 -		Shovel			. Accordingly	ようさんが、中心・自然の大・神・・				
	75		Shovel							CLAY 10D 6/0 light and not processed a satisfactory of a CUEDT and little ODA/CLA 2 are	
1	30 –		Shovel						0.0000000000000000000000000000000000000	CLAY 10R 6/8 light red, soft, arenaceous, contains very fine CHERT and lithic GRAVEL to 2 mm. GRAVEL multicolored CHERT and lithic GRAVEL, small GRAVEL to 3 mm, subrounded, loose,	
-	85 –	The second secon	Shovel							poorly sorted, coarsens toward base to 1 cm GRAVEL, CLAY interbeds, arenaceous.	
-9	90		Shovel						% 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	5 1111		Shovel		\ 			7		CLAY 10R 5/8 red, firm, fat CLAY nodule in CLAY; CLAY GLEY 1 7/2 pale green.	
İ	=	-	Shovel								<u> </u>



WELL NO.

IW021

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -98.01 ROJECT NAME: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: SITE LOCATION: Eunice, New Mexico **TYPES** DEPTHS. Lea County, New Mexico **GROUT TYPE:** Portland Cement -22.0' to Surface -27.0' to -22.0' DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -97.0' to -27.0' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -32.0' to Surface DATE BEGUN: 9/27/05 DATE COMPLETED: 9/27/05 DRILLER: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -97.0' to -32.0' LOGGER: R. Lang ELEVATION (T.O.C.): FILE NAME: IW021.dat UNIQUE NUMBER: 31-014-00768 PLUG BACK: Bentonite Chips -98.0' to -97.0'

' ''''	V/VIVI	L. 14V	021.0	iat	ON	IQUL I	NOIVIDLIN.	31-01	4-00708 FLOG BACK. Bentonite Chips .	-98.0° to -97.0°
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	гітногоду	DESCRIPTION	WELL INSTALLATION
-5-		Split Spoon		Activity					SAND 2.5YR 6/8 light red, fine to medium grained, well sorted, loose, CALICHE interbeds or nodules.	
-10 - -15 -		Split Spoon Split Spoon							CALICHE 5YR 8/2 pinkish white, hard, dry, indurated.	
-20 -		Split Spoon							SAND 5YR 7/4 pink, fine grained, subangular, well sorted, loose; CALICHE 5YR 8/2 pinkish white, nodular; SANDSTONE 5YR 6/6 light red, fine grained, hard at -70' as thin interbeds.	
-25 -		Shove!								[333333] [3333] [33333] [3
-30 -		Shovel								
-40 -		Shovel								
-45 -		Shovel Shovel	}		}					



WELL NO.

IW021

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

DATE:

ENT NAME:

PROJECT NUMBER: MT000700.0016 Chevron North America Exploration & Production Co.

STATIC WATER LEVEL: HOLE SIZE(S): 7 7/8" MEAS. PT.: T.O.C.

-98.01

ROJECT NAME:

North Eunice Gas Plant - Medial IRZ Remediation

SURFACE COMPLETION:

TOTAL DEPTH: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION:

Eunice, New Mexico Lea County, New Mexico

GROUT TYPE:

TYPES DEPTHS

DRILLING CO: DRILLING METHOD: Rotary/Water

White Drilling Co.

SEAL TYPE: SCREEN PACK: CASING TYPE:

Bentonite Chips -27.0' to -22.0' 8/16 Sand

SAMPLE METHOD: Shovel/Split Spoon DATE BEGUN: 9/27/05

9/27/05

31-014-00768

4" Diameter Sch. 40 PVC Blank

-97.0' to -27.0' -32.0' to Surface

-22.0' to Surface

DRILLER: R. Allen/J. White

DATE COMPLETED: **ELEVATION (SURF.):**

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

Portland Cement

Bentonite Chips

LOGGER: R. Lang FILE NAME: IW021.dat ELEVATION (T.O.C.): UNIQUE NUMBER:

PLUG BACK:

-97.0' to -32.0'

-98.0' to -97.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОĞҮ	DESCRIPTION	WELL INSTALLATION
-50 -										
-55 -		Shovel								
		Shovel								
-65 -		Shovel								
-70 -		Shovel							SANDSTONE 10R 4/8 red , very fine grained, poorly sorted, very hard, siliceous cement.	
	7.1	Shovel							CLAY 10R 7/6 light red, soft, arenaceous, very fine CHERT GRAVEL.	
-75 -	1	Shovel								
-80 -		Shovel			10 July 10 Jul				GRAVEL multicolored CHERT and lithic GRAVEL, GRAVEL 1 cm to fine sand, well rounded to subrounded, poorly sorted, loose; CLAY 10R 7/6 light red as interbeds.	
-90 -		Shovel						\$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20		
5 -		Shovel			į			\$20,000 \$20,00		
		Shovel						0.0000000000000000000000000000000000000	CLAY 10R 4/6 red, firm, fat CLAY.	



WELL NO.

IW022

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

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Page 1 of 2

PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: ENT NAME: TOTAL DEPTH: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" -98.01 ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **DEPTHS** -22.0' to Surface GROUT TYPE: Portland Cement Lea County, New Mexico DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -27.0' to -22.0' SCREEN PACK: -97.0' to -27.0' DRILLING METHOD: Rotary/Water 8/16 Sand -32.0' to Surface SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank DATE BEGUN: 9/28/05 DATE COMPLETED: 9/28/05 **DRILLER:** R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -97.0' to -32.0' LOGGER: R. Lang ELEVATION (T.O.C.): 31-014-00769 FILE NAME: IW022.dat **UNIQUE NUMBER:** PLUG BACK: Bentonite Chips -98.0' to -97.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED MOISTURE **DESCRIPTION** RECOVERY s. INSTALLATION SAMPLED ن s. \supset 0 SAND 10R 7/8 light red, subangular, fair sorting, soft, argillaceous. Split Spoon -5 Split Spoon -10 Split Spoon -15 CALICHE 2.5YR 8/4 pink, soft; SAND 2.5YR 7/6 light red, fine to medium grained, subrounded, well sorted, loose, becoming moist at -40'. Split Spoon -20 Split Spoon -25 Split Spoon -30 SAND 2.5YR 5/8 red, medium to fine grained, subrounded, well sorted, loose; CALICHE 2.5YR 8/4 pink, nodular. Split Spoon -35 Split Spoon Split Spoon



WELL NO.

IW022

DEPTHS

-22.0' to Surface

-27.0' to -22.0'

-97.0' to -27.0'

-32.0' to Surface

-98.0

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Portland Cement

Bentonite Chips

8/16 Sand

Page 2 of 2

DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700,0016

LIENT NAME: Chevron North America Exploration & Production Co. PROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation

SITE LOCATION:

DRILLER:

LOGGER:

Eunice, New Mexico

Lea County, New Mexico White Drilling Co.

DRILLING CO: DRILLING METHOD: Rotary/Water SAMPLE METHOD: Shovel/Split Spoon

DATE BEGUN:

9/28/05 R. Allen/J. White DATE COMPLETED:

ELEVATION (SURF.):

R. Lang FILE NAME: IW022.dat

UNIQUE NUMBER:

ELEVATION (T.O.C.):

31-014-00769

CASING TYPE:

9/28/05

GROUT TYPE:

SCREEN PACK:

SEAL TYPE:

WELL SCREEN:

STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION:

4" Diameter Sch. 40 PVC, 0.020" slots

4" Diameter Sch. 40 PVC Blank

-97.0' to -32.0'

PLUG BACK:

Bentonite Chips -98.0' to -97.0'

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

DEРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50 - -55 -		Shovel								
60 -		Shovel				***	:		SAND 2.5YR 4/6 red, fine grained, well rounded, well sorted.	
-65		Shovel								
-70 -		Shovel		ļ					SANDSTONE 10R 4/8 red, very fine grained, very hard, well cemented, siliceous cement.	
-75		Shovel							CLAY 2.5YR 7/8 light red, soft, arenaceous, some small GRAVEL.	
-80		Shovel			'd ti			0 20 20 20 20 20 20 20 20 20 20 20 20 20	GRAVEL multicolored, fine GRAVEL to 3 mm to fine SAND, subrounded, loose, soft CLAY as above as interbeds.	
-85	1	Shovel						0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
-90		Shovel						\$250,000,000,000,000,000,000,000,000,000,		
95		Shovel						0,000,000,000,000,000,000,000,000,000,		
		Shovel						<u>08080808080</u>	CLAY 10R 4/8 red, firm, fat CLAY.	



WELL NO.

IW023

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PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. IENT NAME: TOTAL DEPTH: -99.01 Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" North Eunice Gas Plant - Medial IRZ Remediation ROJECT NAME: SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: **DEPTHS** Eunice, New Mexico -24.0' to Surface Lea County, New Mexico **GROUT TYPE:** Portland Cement -29.0' to -24.0' DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -98.0' to -29.0' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -34.0' to Surface 9/27/05 DATE BEGUN: 9/27/05 DATE COMPLETED: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -98.0' to -34.0' DRILLER: ELEVATION (T.O.C.): LOGGER: R. Lang FILE NAME: IW023.dat **UNIQUE NUMBER:** 31-014-00770 PLUG BACK: Bentonite Chips -99.0' to -98.0' SAMPLING METHOD CLASS **OVM READING WELL** LITHOLOGY ANALYZED RECOVERY MOISTURE Ś **DESCRIPTION** INSTALLATION SAMPLED ن DEPTH s. \supset 0 SAND 10R 4/8 red, medium to fine grained, subangular, fair sorting, loose, argillaceous, CALICHE interbeds Split Spoon Note: 0' to -20' drilled with air in a 12-1/4" hole. -5 Split Spoon -10 Shovel -15 Shovel -20 Shovel -25 Shovel SAND 5YR 5/6 yellowish red, medium to fine grained, subrounded, well sorted, loose, argillaceous, -30 rare CALICHE nodules Shovel -35 Shovel -40 Shovel



WELL NO.

IW023

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PROJICE OF THE PROJECT OF THE PROJEC	IT NAM ECT NA OCATI ING CO ING ME PLE ME BEGUM ER:	MBER: E: ME: ON: C: THOD: FHOD: N: R. Alle R. Lan	North Eu Eunice, N Lea Coul White Di Rotary/M Shovel/S 9/27/05 en/J. Whit	North A unice Gas New Mex nty, New rilling Co Vater plit Spoo	merica s Plant vico Mexico on DATE VATIO VATIO	- Medial	IRZ Remed TED:): .):	### TYPES GROUT TYPE: Portland Cement -2 SEAL TYPE: Bentonite Chips -2 SCREEN PACK: 8/16 Sand -9 CASING TYPE: 4" Diameter Sch. 40 PVC Blank -3 9/27/05 WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -9	
DЕРТН	SAMPLED	SAMPLING METHOD	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50 -	Sr	novel							HATTANATANATANATAN
-65 -		ovel				3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
-70 -		novel		in the state of th	the thirty			SANDSTONE 10R 4/8 red, very fine grained, well sorted, very hard, well cemented with silica	
-80 -	Sh	novel						cement.	
-85 -	St	ovel					0%0%0%0%0%0	CLAY 10R 4/8 red, soft, arenaceous, contains multicolored GRAVEL to 1 mm.	
-90 -		novel					ૻૺ૱ઌૺૡૼૡૼઌઌઌઌઌઌઌઌઌઌઌઌઌ ૹૺૡૺ૱ૡૹૺૡૹૡૹૡૹૡૹૡૹૹ ૹૡૹૡૹઌઌઌઌૹૹૹ ૱૱૱૱૱૱૱૱૱૱૱૱૱૱૱	GRAVEL multicolored, very fine GRAVEL to 1 mm to fine SAND; CLAY 10R 4/8 red, as interbeds.	
	Sh	ovel					0 %0 %0 %0 %0 %0 0 %0 %0 %0 %0 %0 0 %0 %0 %0 %0 %0 0 %0 %0 %0 %0 %0	CLAY 10R 4/8 red, firm, fat CLAY.	



DRILLING CO:

WELL LOG

STATIC WATER LEVEL:

SURFACE COMPLETION:

WELL NO.

IW024

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PROJECT NUMBER: MT000700.0016 JENT NAME: OJECT NAME: SITE LOCATION: Eunice, New Mexico

Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" North Eunice Gas Plant - Medial IRZ Remediation

Lea County, New Mexico White Drilling Co. DRILLING METHOD: Rotary/Water SAMPLE METHOD: Shovel/Split Spoon

9/21/05 DATE BEGUN:

DRILLER: R. Allen/J. White R. Lang LOGGER: FILE NAME: IW024.dat

ELEVATION (SURF.): UNIQUE NUMBER:

DATE COMPLETED: ELEVATION (T.O.C.):

31-014-00771 PLUG BACK:

9/21/05

MEAS. PT.: T.O.C.

DATE:

-103.0' TOTAL DEPTH:

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

DEPTHS -31.0' to Surface

GROUT TYPE: Portland Cement Bentonite Chips -36.0' to -31.0' SEAL TYPE: SCREEN PACK: 8/16 Sand -101.0' to -36.0' 4" Diameter Sch. 40 PVC Blank CASING TYPE: -41.0' to Surface

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -101.0' to -41.0'

Bentonite Chips -103.0' to -101.0'

rice i	NAIVII	. 1000	J24.C	ial	UN	IQUE I	NOIVIDER.	31-01	4-00771 PLOG BACK. Bentonite Chips	103.0' to -101.0'
DEРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-5-		Split Spoon							SAND 10R 6/4 red, fine, subangular, well sorted, loose, argillaceous.	
-10 -		Split Spoon Shovel							CLAY 2.5YR 6/8 light red, firm, arenaceous. CALICHE 2.5YR 8/4 pink, soft, arenaceous.	
-20 -		Shovel							SANDSTONE 2.5YR 6/4 light reddish brown, medium to fine grained, well rounded, well sorted, very weakly cemented to loose.	
-30 -		Shovel Shovel							SAND 2.5YR 6/4 light reddish brown, medium to fine grained, well rounded, well sorted, loose.	
-40 -		Shovel								
-50 -		Shovel								



WELL NO.

IW024

DEPTHS

-31.0' to Surface

-36.0' to -31.0'

-101.0' to -36.0'

-103.0

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TYPES

Page 2 of 2

DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700.0016 LIENT NAME:

R. Lang

Chevron North America Exploration & Production Co. North Eunice Gas Plant - Medial IRZ Remediation

ROJECT NAME: SITE LOCATION:

Eunice, New Mexico Lea County, New Mexico

DRILLING CO:

White Drilling Co. DRILLING METHOD: Rotary/Water SAMPLE METHOD: Shovel/Split Spoon

DATE BEGUN: DRILLER: R. Allen/J. White

LOGGER:

9/21/05

DATE COMPLETED:

ELEVATION (SURF.):

ELEVATION (T.O.C.): FILE NAME: IW024.dat UNIQUE NUMBER:

CASING TYPE:

9/21/05

31-014-00771

SEAL TYPE: SCREEN PACK:

GROUT TYPE:

PLUG BACK:

STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION:

Portland Cement **Bentonite Chips** 8/16 Sand

Bentonite Chips

4" Diameter Sch. 40 PVC Blank

-41.0' to Surface

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -101.0' to -41.0'

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

-103.0' to -101.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОСУ	DESCRIPTION	WELL INSTALLATION
-55 -		Shovel								
-60		Shovel								
-65		Shovel				a de approprie				
-70		Shovel								
-75 -		Shovel							SANDSTONE 10R 4/6 red, very fine grained, well sorted, very hard, thinly bedded, siliceous cement.	
-80		Shovel							CLAY 5YR 6/4 light reddish brown, arenaceous, some very fine GRAVEL.	
-85 -		Shovel			- income					
-90		Shovel						200 200 200 200 200 200 200 200 200 200	GRAVEL multicolored CHERT and lithic GRAVEL, fine to 3 mm, subrounded, arenaceous, size increases to 7 mm with depth.	
-95		Shovel						5,000 000 000 000 000 000 000 000 000 00		
-100		Shovel						690909090909090909090909090909090909090		
		Shovel							CLAY 10R 4/8 red, firm, fat CLAY.	::: <u>1</u> :::



WELL NO.

IW025

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DEPTHS

-103.01

PROJECT NUMBER: MT000700.0016 YENT NAME: **KOJECT NAME:**

Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" North Eunice Gas Plant - Medial IRZ Remediation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico White Drilling Co.

DRILLING CO: DRILLING METHOD: Rotary/Water SAMPLE METHOD: Shovel/Split Spoon

DATE BEGUN: 9/21/05

R. Allen/J. White DRILLER: LOGGER:

R. Lang

DATE COMPLETED:

ELEVATION (SURF.): ELEVATION (T.O.C.):

FILE NAME: IW025.dat UNIQUE NUMBER: STATIC WATER LEVEL: SURFACE COMPLETION:

GROUT TYPE:

WELL SCREEN:

SEAL TYPE:

9/21/05

31-014-00772

MEAS. PT.: T.O.C.

DATE:

TOTAL DEPTH: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

Portland Cement -31.0' to Surface

SCREEN PACK: 8/16 Sand CASING TYPE:

Bentonite Chips

4" Diameter Sch. 40 PVC Blank

-41.0' to Surface

4" Diameter Sch. 40 PVC, 0.020" slots

-101.0' to -41.0'

-36.0' to -31.0'

-101.0' to -36.0'

PLUG BACK: -103.0' to -101.0'

ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0-	1									
-5-		Split Spoon							SAND 10R 6/4 red, fine, subangular, well sorted, loose, argillaceous.	
-10 -		Split Spoon								
-15 -		Shovel								
-20 -		Shovel							CALICHE 2.5YR 8/3 pink, soft.	
-25 -		Shovel			t one					
-30 -		Shovel								
-35 -		Shovel			0 0 0 0 0 0 0				SANDSTONE 10R 6/4 red, fine to medium grained, subrounded, well sorted, very friable, argillaceous.	
-40 -		Shovel								
45 -		Shovel							SAND 10R 6/4 red, medium to fine grained, loose, some layers weakly cemented.	
-50 -		Shovel			:					



WELL NO.

IW025

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4" Diameter Sch. 40 PVC Blank

4" Diameter Sch. 40 PVC, 0.020" slots

Portland Cement

Bentonite Chips

8/16 Sand

Page 2 of 2

ENT NAME: ROJECT NAME:

ROJECT NUMBER: MT000700.0016 Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8"

North Eunice Gas Plant - Medial IRZ Remediation

SITE LOCATION:

DRILLER: LOGGER: Eunice, New Mexico Lea County, New Mexico

DRILLING CO: DRILLING METHOD: Rotary/Water

White Drilling Co.

SAMPLE METHOD: Shovel/Split Spoon DATE BEGUN:

FILE NAME: IW025.dat

9/21/05

R. Allen/J. White

R. Lang

DATE COMPLETED:

ELEVATION (SURF.):

ELEVATION (T.O.C.): 31-014-00772 UNIQUE NUMBER:

9/21/05

WELL SCREEN:

PLUG BACK:

GROUT TYPE:

SCREEN PACK:

CASING TYPE:

SEAL TYPE:

STATIC WATER LEVEL:

SURFACE COMPLETION:

Sand

MEAS. PT.: T.O.C.

DATE:

TOTAL DEPTH: -103.0'

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

DEPTHS -31.0' to Surface

-36.0' to -31.0' -101.0' to -36.0'

-41.0' to Surface

-101.0' to -41.0' -103.0' to -101.0'

DEРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
-55 -		Shovel								
-60 -		Shovel								
-65 -		Shovel								
-70 -		Shovel	i i						CLAY 10R 5/6 red, soft, arenaceous, some fine to very fine GRAVEL, 2 mm in CLAY at -78'.	
-75 -		Shovel		1						
-80 -		Shovel		į						
-90 -		Shovel			į			02020202020 02020202020 02020202020 02020202020 02020202020 02020202020	GRAVEL multicolored CHERT and lithic GRAVEL to 3 mm to fine SAND, subrounded, loose, poorly sorted, soft CLAY interbeds at -95'.	
-95 -		Shovel		ļ						
100 -		Shovel		,				0 20 20 20 20 20 20 20 20 20 20 20 20 20	CLAY 10R 4/8 red, firm, fat CLAY.	
		Shovel							OBT. 101 TO TOU, IIIII, IBI OBT.	



WELL NO.

IW026

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

9/19/05

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DEPTHS

-27.0' to Surface

-37.0' to Surface

-32.0' to -27.0' -102.0' to -32.0'

-105.01

DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700.0016 CLIENT NAME:

Chevron North America Exploration & Production Co. North Eunice Gas Plant - Medial IRZ Remediation

PROJECT NAME: SITE LOCATION:

Eunice, New Mexico

DRILLING CO:

Lea County, New Mexico White Drilling Co.

DRILLING METHOD: Rotary/Water SAMPLE METHOD: Shovel/Split Spoon

R. Lang

DATE BEGUN:

DRILLER:

LOGGER:

9/19/05 R. Allen/J. White

DATE COMPLETED:

ELEVATION (SURF.):

UNIQUE NUMBER:

ELEVATION (T.O.C.):

31-014-00773

CASING TYPE: WELL SCREEN:

SCREEN PACK:

STATIC WATER LEVEL:

SURFACE COMPLETION:

7 7/8"

Portland Cement

Bentonite Chips

8/16 Sand

HOLE SIZE(S):

GROUT TYPE:

SEAL TYPE:

4" Diameter Sch. 40 PVC Blank

4" Diameter Sch. 40 PVC, 0.020" slots

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

-102.0' to -37.0'

FILE NAME: IW026.dat PLUG BACK: Bentonite Chips -105.0' to -102.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY C. S. ANALYZED RECOVERY DESCRIPTION MOISTURE INSTALLATION SAMPLED DEPTH Ś 0-SAND 10R 6/4 red, medium to fine grained, subrounded, well sorted, loose, argillaceous. Split Spoon Spoon -5 CALICHE 5YR 8/2 pinkish white, firm to soft. Shovel -10 SANDSTONE 5YR 8/4 pink, fine to very fine grained, well sorted, very soft; CALICHE 5YR 8/2 Shovel pinkish white, soft to firm, as interbeds -15 Shovel -20 Shovel -25 Shovel SAND 2.5YR 5/6 reddish brown, medium to fine grained, well rounded, well sorted, loose; -30 SANDSTONE 2.5YR 3/6 reddish brown, as interbeds, small CHERT grains rare, arenaceous, CLAY interbeds below -73'. Shovel -35 Shovel -40 Shovel -45 Shovel -50



WELL NO.

IW026

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Tel: 432/687-5400 Fax: 432/687-5401

Portland Cement

Bentonite Chips

8/16 Sand

Page 2 of 2

DEPTHS

-27.0' to Surface

-32.0' to -27.0'

-102.0' to -32.0'

-37.0' to Surface

-105.01

DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700.0016

CLIENT NAME: Chevron North America Exploration & Production Co. North Eunice Gas Plant - Medial IRZ Remediation PROJECT NAME:

SITE LOCATION:

Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: White Drilling Co. DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel/Split Spoon

DATE BEGUN: 9/19/05 DRILLER:

R. Allen/J. White R. Lang

DATE COMPLETED:

ELEVATION (SURF.): ELEVATION (T.O.C.):

WELL SCREEN:

GROUT TYPE:

SCREEN PACK:

CASING TYPE:

SEAL TYPE:

STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION:

4" Diameter Sch. 40 PVC Blank

4" Diameter Sch. 40 PVC, 0.020" slots

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

-102.0' to -37.0'

LOGGER: FILE NAME: IW026.dat UNIQUE NUMBER: 31-014-00773 PLUG BACK: **Bentonite Chips** -105.0' to -102.0'

9/19/05

ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОСУ	DESCRIPTION	WELL INSTALLATION
-55 -		Shovel								
-60		Shovel					. i			
-65		Shovel								
-70		Shovel		į						
-75		Shovel							SANDSTONE 10R 5/6 red, very fine grained, very hard, well cemented with siliceous cement.	
-80		Shovel							SAND 2.5YR 5/6 reddish brown, medium to fine grained, well rounded, well sorted, loose.	
-85	Parins Tarins	Shovel		***************************************				08080808080	CLAY 10R 6/8 light red, soft, arenaceous.	
-90		Shovel						0 20 20 20 20 20 20 20 20 20 20 20 20 20	GRAVEL various colors, CHERT and lithic GRAVEL to 5 mm, well rounded, loose.	
-95		Shovel						20000000000000000000000000000000000000		
00 -		Shovel					i	0,50,50,50,50,50,50,50,50,50,50,50,50,50		
-105		Shovel						ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္လ ဝိန္ 	CLAY 10R 4/8 red, firm, fat CLAY.	



WELL NO. **IW027**

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1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401 PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -103.0' ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SURFACE COMPLETION: SITE LOCATION: Eunice, New Mexico **DEPTHS** Lea County, New Mexico **GROUT TYPE:** Portland Cement -29.5' to Surface DRILLING CO: White Drilling Co. SEAL TYPE: **Bentonite Chips** -34.5' to -29.5' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -99.5' to -34.5' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -39.5' to Surface DATE BEGUN: 9/20/05 DATE COMPLETED: 9/20/05 DRILLER: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -99.5' to -39.5' ELEVATION (T.O.C.): LOGGER: R. Lang FILE NAME: IW027.dat UNIQUE NUMBER: 31-014-00774 PLUG BACK: Bentonite Chips -103.0' to -99.5' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED MOISTURE RECOVERY Ś **DESCRIPTION** INSTALLATION SAMPLED ن DEPTH Ś $\dot{}$ 0 SAND 10R 6/4 red, fine grained, subangular, well sorted, loose. Split -5 Shovel CALICHE 2.5YR 8/3 pink, soft, becoming interbedded with SANDSTONE 10R 4/6 red, fine grained, -10 subangular, well sorted, friable below -20'. Shovel -15 Shovel -20 Shovel -25 Shovel -30 Shovel -35 SAND 10R 4/6 red, fine to medium grained, subangular, well sorted, loose Shovel -40 Shovel



WELL NO.

IW027

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

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PROJECT NUMBER: MT000700.0016 MEAS. PT.: T.O.C. STATIC WATER LEVEL: DATE: ENT NAME: ROJECT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -103.0' North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **TYPES DEPTHS** Lea County, New Mexico **GROUT TYPE:** Portland Cement -29.5' to Surface DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -34.5' to -29.5' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -99.5' to -34.5' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -39.5' to Surface DATE BEGUN: 9/20/05 DATE COMPLETED: 9/20/05 DRILLER: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -99.5' to -39.5' LOGGER: R. Lang ELEVATION (T.O.C.):

FILE NAME: IW027.dat UNIQUE NUMBER: 31-014-00774 PLUG BACK: Bentonite Chips -103.0' to -99.5'

1									·	103.0 10-33.3
ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
-55 -		Shovel								
-60 -		Shovel								
-65 -		Shovel								
-70 -	200	Shovel								
-75 -		Shovel							CLAY 2.5YR 5/4 reddish brown, soft, arenaceous, rare fine GRAVEL to 2 mm.	
-80 -		Shovel						0%0%0%0%0%0 0%0%0%0%0%0%0	SANDSTONE 10R 5/8, fine grained, well sorted, very hard, siliceous cement. GRAVEL multicolored CHERT and lithic GRAVEL, subrounded to 1 cm; CLAY 10R 6/8 light red,	
-85 -	1 1	Shovel						0 20 20 20 20 20 20 20 20 20 20 20 20 20	arenaceous interbeds.	
-90		Shovel						တို့တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့တို့ တို့တို့တို့တို့တို့တို့		
-95		Shovel			**************************************			02020202020 02020202020 02020202020 02020202020 02020202020 02020202020		
9 ₀ -		Shovel						0.50.50.50.50.50 0.50.50.50.50 0.50.50.50.50 0.50.50.50 0.50.50.50 0.50.50.50 0.50.50	CLAY 10R 4/8 red, firm, fat CLAY.	
	 ,	Shovel								



WELL NO.

IW028

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DEPTHS

-29.5' to Surface

-107.0' to -105.0'

-35.0' to Surface

-33.0' to -29.0'

-107.0'

DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700.0016 ENT NAME:

Chevron North America Exploration & Production Co. HOLE SIZE(S):

North Eunice Gas Plant - Medial IRZ Remediation Eunice, New Mexico

ROJECT NAME: SITE LOCATION:

Lea County, New Mexico

DRILLING CO: White Drilling Co. DRILLING METHOD: Button Bit

SAMPLE METHOD: Tea Strainer DATE BEGUN: 3/15/05

R. Nanny

DRILLER: B. Atkins

LOGGER:

DATE COMPLETED:

ELEVATION (T.O.C.): UNIQUE NUMBER:

ELEVATION (SURF.):

3/15/05

CASING TYPE: WELL SCREEN:

GROUT TYPE:

SEAL TYPE:

STATIC WATER LEVEL:

SURFACE COMPLETION:

7 7/8"

Bentonite Pellets SCREEN PACK: 20/40 Sand

Portland Cement

TYPES

4" Diameter Sch. 40 PVC Blank

-105.0' to -35.0' 4" Diameter Sch. 40 PVC, 0.020" slots

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

MEAS. PT.: T.O.C.

FILE I			Nann 028.d				N (T.O.C NUMBER:		4-00775 PLUG BACK: Sand	107.0' to -105.0'
ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
0-										
		Shovel					SM		HYDRO BLAST no recovery.	
-5-		Shovel							CALICHE 7.5YR 8/2 pinkish white, 90%, turning to SAND 7.5YR 5/4 brown, very fine to fine grained, 10%, subrounded, sorted, loose.	
-10 -		Shovel							SANDSTONE 7.5YR 4/4 reddish brown, fine grained, 80%, subrounded, well sorted; SANDSTONE 7.5YR 6/4 light brown, fine grained, 20%, subrounded, well sorted, friable.	
-20 -		Shovel								
-25 ~		Shovel							SAND 7.5YR 5/4 reddish brown, fine grained, 80%, subrounded, well sorted, loose; SANDSTONE 7.5YR 6/4 light brown, fine grained, 20%, subrounded, well sorted, friable.	
-30 -		Shovel			}					
-35 -		Shovel								
-40 -		Shovel							SANDSTONE 7.5YR 5/6 strong brown, fine grained, 70%, subrounded, well sorted, loose to very	
5 -		Shovel							friable; SANDSTONE 7.5YR 6/4 light brown, fine grained, 30%, subrounded, well sorted, friable.	
-50 -		Shovel								



STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8"

GROUT TYPE:

SEAL TYPE:

SURFACE COMPLETION:

WELL NO.

IW028

DEPTHS

-29.5' to Surface -33.0' to -29.0'

-107.0' to -105.0'

-35.0' to Surface

-107.01

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

TYPES

Page 2 of 2 DATE:

TOTAL DEPTH:

PROJECT NUMBER: MT000700.0016 ENT NAME:

Chevron North America Exploration & Production Co. North Eunice Gas Plant - Medial IRZ Remediation

ROJECT NAME: SITE LOCATION:

Eunice, New Mexico Lea County, New Mexico

DRILLING CO: White Drilling Co. DRILLING METHOD: Button Bit

SAMPLE METHOD: Tea Strainer DATE BEGUN:

DRILLER: B. Atkins LOGGER: R. Nanny

DATE COMPLETED: 3/15/05

ELEVATION (SURF.): ELEVATION (T.O.C.):

3/15/05

WELL SCREEN:

SCREEN PACK: 20/40 Sand CASING TYPE: 4" Diameter Sch. 40 PVC Blank

Portland Cement

Bentonite Pellets

4" Diameter Sch. 40 PVC, 0.020" slots

MEAS. PT.: T.O.C.

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

-105.0' to -35.0'

FILE N	NAME:	IW028	8.dat	UN	IQUE N	NUMBER:	31-01	4-00775 PLUG BACK: Sand	107.0' to -105.0'
DEPTH	SAMPLED	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
	- I	vel							
-55 -	Sh	vel							
5-	Sh	vel							
-70 -	Sh	vel							
-75 -	Sh	vel			- Padeber de strategique par la company de l				
-80 -	Sho	vel						SANDSTONE 2.5YR 4/4 reddish brown, very fine grained, 80%, subrounded, well sorted, firm,	
-85 -	Sho	vel					03030303030	siliceous, indurated; SANDSTONE 7.5YR 6/4 light brown, fine grained, 20%, subrounded, well sorted, friable. GRAVEL multiple colored CHERT and QUARTZ pebbles from 0.03 cm to 1 cm with some	
-90 -	Sho	vel						SANDSTONE 7.5YR 5/6 reddish brown, fine grained, subrounded, well sorted, loose to very friable and little SANDSTONE 2.5YR 4/4 reddish brown, very fine grained, subrounded, well sorted, firm, siliceous, indurated.	
-95 -	Sho	vel			11. P. C.		GYGYGYGYGYG GYGYGYGYGYGYG GYGYGYGYGYGYG		
100 -	Sho	vel					08080808080	SILTY CLAY 2.5YR 5/6 red, plastic, non sticky, soft, with traces of GRAVEL multiple colors, CHERT and QUARTZ pebbles from 0.03 to 1 cm.	
-105 -	Sho	vel					アナアナナ	CLAY 2.5YR 4/6 red, plastic, sticky.	
1 :	Щ.			J	Ш				



Shovel

WELL LOG

WELL NO.

MW086SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0014 MEAS. PT.: T.O.C. STATIC WATER LEVEL: DATE: TOTAL DEPTH: ENT NAME: ChevronTexaco Exploration and Production Co. HOLE SIZE(S): 7 3/4" -92.0' ROJECT NAME: North Eunice Plant - IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Lea County, New Mexico **DEPTHS TYPES** Portland Cement -40.0' to Surface **GROUT TYPE:** DRILLING CO: White Drilling Company SEAL TYPE: Bentonite -45.0' to -40.0' DRILLING METHOD: Mud Rotary -90.0' to -45.0' SCREEN PACK: 8/16 Brady Sand -50.0' to Surface SAMPLE METHOD: Shovel CASING TYPE: 4" Diameter Sch. 40 PVC Blank DATE BEGUN: 9/9/04 DATE COMPLETED: 9/9/04 DRILLER: WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -90.0' to -50.0' **Bo Adkins ELEVATION (SURF.):** LOGGER: R. Nanny ELEVATION (T.O.C.): FILE NAME: MW086SA.dat 31-014-00699 PLUG BACK: 8/16 Brady Sand UNIQUE NUMBER: -92.0' to -90.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED Š DESCRIPTION MOISTURE RECOVERY INSTALLATION SAMPLED Ü Ś \supset 0 SAND 2.5 YR 4/6 red, fine grained, subrounded, loose, 80% SAND, 20% CALICHE, 10 YR 7/3 very SM pale brown, angular. Shovel -5 CALICHE 5 YR 7/3 pink, coarse grained, subrounded to subangular, friable, arenaceous, 90% CALICHE, 10 Y, SAND, 7.5 YR 7/6 reddish yellow, fine grained, well rounded, well sorted, loose. Shovel -10 Shovel -15 Shovel -20 SANDSTONE 7.5 YR 7/3 pink, fine grained, subrounded, well sorted, friable. Shovel -25 Shovel -30 SANDSTONE 7.5 YR 7/4 pink, fine grained, rounded, well sorted, hard to friable. Shovel -35 Shovel



WELL NO.

MW086SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0014 MEAS. PT.: T.O.C. STATIC WATER LEVEL: DATE: HOLE SIZE(S): 7 3/4" TOTAL DEPTH: -92.0' IENT NAME: ChevronTexaco Exploration and Production Co. OJECT NAME: North Eunice Plant - IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Lea County, New Mexico **TYPES DEPTHS** -40.0' to Surface GROUT TYPE: Portland Cement DRILLING CO: White Drilling Company SEAL TYPE: Bentonite -45.0' to -40.0' -90.0' to -45.0' DRILLING METHOD: Mud Rotary SCREEN PACK: 8/16 Brady Sand 4" Diameter Sch. 40 PVC Blank SAMPLE METHOD: Shovel -50.0' to Surface CASING TYPE: DATE BEGUN: 9/9/04 DATE COMPLETED: 9/9/04 DRILLER: Bo Adkins ELEVATION (SURF.): -WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -90.0' to -50.0' LOGGER: R. Nanny ELEVATION (T.O.C.): -FILE NAME: MW086SA.dat UNIQUE NUMBER: 31-014-00699 PLUG BACK: 8/16 Brady Sand -92.0' to -90.0' SAMPLING METHOD CLASS OVM READING **WELL** LITHOLOGY **ANALYZED** DESCRIPTION MOISTURE RECOVERY Š INSTALLATION SAMPLED ن s. \supset SANDSTONE 10 YR 5/6 red, very fine grained to SILT, rounded, well sorted, friable. Shovel -50 Shovel Shovel -60 Shovel -65 Shovel -70 Shovel -75 Shovel -80 GRAVEL to 3mm rounded, interbedded, with CLAY 2.5 YR 4/6 red, plastic. Shovel -85 Shovel -90 CLAY 2.5 YR 4/6 red, plastic. Shovel



WELL NO.

MW087A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0014

ChevronTexaco Exploration and Production Co.

STATIC WATER LEVEL: HOLE SIZE(S): 7 7/8" MEAS. PT.: T.O.C.

DATE: TOTAL DEPTH: -115.0'

VENT NAME: KOJECT NAME:

North Eunice Plant - IRZ Remediation

SURFACE COMPLETION:

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab **DEPTHS**

SITE LOCATION:

Lea County, New Mexico

GROUT TYPE:

TYPES -51.0' to Surface

DRILLING CO: DRILLING METHOD: Mud Rotary

White Drilling Company

SEAL TYPE: SCREEN PACK: **CASING TYPE:**

Bentonite 8/16 Brady Sand

-75.0' to -51.0' -110.0' to -75.0'

SAMPLE METHOD: Shovel DATE BEGUN: 9/9/04

DATE COMPLETED: 9/9/04 4" Diameter Sch. 40 PVC Blank

Portland Cement

-90.0' to Surface

DRILLER: Bo Adkins LOGGER:

ELEVATION (SURF.): --

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -110.0' to -90.0'

R. Nanny MW087A.dat

ELEVATION (T.O.C.): —
UNIQUE NUMBER:

FILE	GER: NAME:	R. N MW	lann /087	y 'A.dat	UN	Vatio Ique N	N (T.O.C NUMBER:	.): — 31-01	4-00700 PLUG BACK: 8/16 Brady Sand -1	15.0' to -110.0'
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
0-										
	St	iovel							SAND 7.5 YR 4/6 strong brown, very fine grained, rounded, well sorted, loose.	
5.	1	novel							CALICHE 7.5 YR 4/6 strong brown, very fine grained, well sorted, soft.	
-10	St	novel								
-15		iovel	33						SANDSTONE 7.5 YR 8/2 pinkish white, very fine grained to fine grained, well sorted, hard to friable.	
-20 -]	ovel							SANDSTONE 7.5 YR 5/4 brown, very fine grained, rounded, friable.	
-25		iovel								
-30	St	iovel								
-35 -					<u> </u>					



WELL NO.

MW087A

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Page 2 of 3

DATE:

-115.0'

PROJECT NUMBER: MT000700.0014 IENT NAME:

ChevronTexaco Exploration and Production Co. North Eunice Plant - IRZ Remediation

ROJECT NAME: SITE LOCATION:

Lea County, New Mexico

DRILLING CO: White Drilling Company DRILLING METHOD: Mud Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 9/9/04

FILE NAME: MW087A.dat

DRILLER: Bo Adkins R. Nanny LOGGER:

DATE COMPLETED: ELEVATION (SURF.): —

ELEVATION (T.O.C.): —

UNIQUE NUMBER: 31-014-00700

9/9/04

SURFACE COMPLETION:

STATIC WATER LEVEL:

HOLE SIZE(S): 7 7/8"

MEAS. PT.: T.O.C.

TOTAL DEPTH:

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

DEPTHS **TYPES GROUT TYPE:** Portland Cement -51.0' to Surface

-75.0' to -51.0' SEAL TYPE: Bentonite SCREEN PACK: 8/16 Brady Sand -110.0' to -75.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -90.0' to Surface

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -110.0' to -90.0'

PLUG BACK:

8/16 Brady Sand -115.0' to -110.0'

ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОĞҮ	DESCRIPTION	WELL INSTALLATION
-40 -		Shovel								
-45 -		Shovel								
-45										
-50		Shovel								
-55		Shovel								
-60		Shovel								
-		Shovel								
-65		Shovel							SANDSTONE 7.5 YR 5/4 brown, interbedded with black SANDSTONE, very fine grained, rounded, sorted, friable.	
-70		Shovel								
5		Shovel							SAND 5 YR 5/6 yellowish red, fine grained to very fine grained, rounded, well sorted, friable, interbedded with GRAVEL, small, angular to subangular, poorly sorted.	



WELL NO.

MW087A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0014 MEAS. PT.: T.O.C. DATE: -STATIC WATER LEVEL: TOTAL DEPTH: ENT NAME: ChevronTexaco Exploration and Production Co. HOLE SIZE(S): 7 7/8" -115.0' ROJECT NAME: North Eunice Plant - IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Lea County, New Mexico TYPES **DEPTHS GROUT TYPE:** Portland Cement -51.0' to Surface DRILLING CO: White Drilling Company SEAL TYPE: -75.0' to -51.0' Bentonite 8/16 Brady Sand DRILLING METHOD: Mud Rotary SCREEN PACK: -110.0' to -75.0' SAMPLE METHOD: Shovel CASING TYPE: 4" Diameter Sch. 40 PVC Blank -90.0' to Surface DATE BEGUN: 9/9/04 DATE COMPLETED: 9/9/04 DRILLER: 4" Diameter Sch. 40 PVC, 0.020" slots -110.0' to -90.0' Bo Adkins ELEVATION (SURF.): -WELL SCREEN: LOGGER: R. Nanny ELEVATION (T.O.C.): -FILE NAME: MW087A.dat UNIQUE NUMBER: 31-014-00700 PLUG BACK: 8/16 Brady Sand -115.0' to -110.0'

''''' '	4/~IVIL		, 400,	A.uat	OIV	IQUL	WOIVIDEN.	51-01	4-00700 TEOG BACK. OF TO Brady Sand	115.0' to -110.0'
ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80 -			İΪ							
-85		Shovel								
-90		Shovel								
-95 -		Shovel	L. C. C. C. C. C. C. C. C. C. C. C. C. C.			12-7-87-187-18				
-100 -		Shovel								
-105 -	1	Shovel						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		Shovel						\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GRAVEL small, subangular, poorly sorted.	
-110 - -115 -		Shovel							CLAY 2.5 YR 5/6 red, plastic, sticky.	



WELL NO.

MW880WM

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0014 STATIC WATER LEVEL: MEAS. PT.: T.O.C. IENT NAME: ChevronTexaco Exploration and Production Co. TOTAL DEPTH: -92.0' HOLE SIZE(S): 7 7/8" North Eunice Plant - IRZ Remediation ROJECT NAME: SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Lea County, New Mexico **DEPTHS** -40.0' to Surface **GROUT TYPE:** Portland Cement DRILLING CO: White Drilling Company SEAL TYPE: -45.0' to -40.0' Bentonite DRILLING METHOD: Mud Rotary SCREEN PACK: 8/16 Brady Sand -90.0' to -45.0' -50.0' to Surface SAMPLE METHOD: Shovel CASING TYPE: 4" Diameter Sch. 40 PVC Blank DATE BEGUN: 9/10/04 DATE COMPLETED: 9/10/04 DRILLER: Bo Adkins **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -90.0' to -50.0' LOGGER: R. Nanny ELEVATION (T.O.C.): — -100.0' to -100.0' FILE NAME: MW088.dat 8/16 Brady Sand UNIQUE NUMBER: 31-014-00701 PLUG BACK: -92.0' to -90.0' SAMPLING METHOD **CLASS OVM READING** WELL LITHOLOGY ANALYZED MOISTURE RECOVERY Ś **DESCRIPTION** INSTALLATION SAMPLED ن S. \supset 0. SAND 2.5 YR 4/6 red, very fine grained, rounded, well sorted, interbedded with CALICHE, 7.5 YR 8/2 pinkish white, subangular, friable. Shovel Shovel -10 CALICHE 7.5 YR 8/2 pinkish white, subangular, friable. Shovel -15 Shovel -20 SANDSTONE 7.5 YR 7/4 pink, fine grained, rounded, well sorted, hard to friable. Shovel Shovel



Shovel

Shovel

-55

-60

WELL LOG

WELL NO.

MW088M Page 2 of 3 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401 MEAS. PT.: T.O.C. PROJECT NUMBER: MT000700.0014 STATIC WATER LEVEL: DATE: ChevronTexaco Exploration and Production Co. HOLE SIZE(S): TOTAL DEPTH: -92.0' IENT NAME: 7 7/8' ROJECT NAME: North Eunice Plant - IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab Lea County, New Mexico <u>DEPTHS</u> SITE LOCATION: **TYPES GROUT TYPE:** Portland Cement -40.0' to Surface White Drilling Company DRILLING CO: -45.0' to -40.0' SEAL TYPE: Bentonite DRILLING METHOD: Mud Rotary SCREEN PACK: 8/16 Brady Sand -90.0' to -45.0' SAMPLE METHOD: Shovel CASING TYPE: 4" Diameter Sch. 40 PVC Blank -50.0' to Surface 9/10/04 DATE COMPLETED: 9/10/04 DATE BEGUN: DRILLER: Bo Adkins **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -90.0' to -50.0' ELEVATION (T.O.C.): LOGGER: R. Nanny -100.0' to -100.0' FILE NAME: MW088,dat UNIQUE NUMBER: 31-014-00701 PLUG BACK: 8/16 Brady Sand -92.0' to -90.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY **ANALYZED** MOISTURE RECOVERY Š DESCRIPTION INSTALLATION SAMPLED ن DEPTH Š. -30 SANDSTONE 7.5 YR 7/6 reddish yellow, fine grained, rounded, well sorted, friable. Shovel -35 Shovel -40 Shovel -45 Shovel -50

SAND 7.5 YR 5/6 strong brown, fine grained to very fine grained, rounded, well sorted, interbedded with SANDSTONE, 7.5 YR 7/6 reddish yellow, fine grained, rounded, well sorted, friable.



WELL NO.

M880WM

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0014 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: IENT NAME: TOTAL DEPTH: ChevronTexaco Exploration and Production Co. HOLE SIZE(S): 7 7/8" -92.0' ROJECT NAME: North Eunice Plant - IRZ Remediation 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SURFACE COMPLETION: SITE LOCATION: Lea County, New Mexico **DEPTHS** -40.0' to Surface **GROUT TYPE:** Portland Cement DRILLING CO: White Drilling Company -45.0' to -40.0' SEAL TYPE: Bentonite DRILLING METHOD: Mud Rotary SCREEN PACK: 8/16 Brady Sand -90.0' to -45.0' 4" Diameter Sch. 40 PVC Blank -50.0' to Surface SAMPLE METHOD: Shovel CASING TYPE: DATE BEGUN: 9/10/04 DATE COMPLETED: 9/10/04 DRILLER: Bo Adkins ELEVATION (SURF.): --WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -90.0' to -50.0' R. Nanny ELEVATION (T.O.C.): -LOGGER: -100.0' to -100.0' FILE NAME: MW088.dat UNIQUE NUMBER: 31-014-00701 PLUG BACK: 8/16 Brady Sand -92.0' to -90.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED RECOVERY MOISTURE S. DESCRIPTION INSTALLATION SAMPLED ij DEPTH Š. \supset Shovel -65 Shovel SANDSTONE 7.5 YR 7/6 reddish vellow, fine grained, rounded, well sorted, friable. Shovel -75 Shovel -80 Shovel -85 SANDSTONE 7.5 YR 5/6 strong brown, fine grained, rounded, well sorted, hard, interbedded with SANDY CLAY, fine grained to very fine grained, soft. Shovel -90 SANDSTONE 2.5 YR 5/6 red, fine grained, rounded, well sorted, hard.



WELL NO.

MW089SA

RCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

DRILL SAM DATE DRILL LOGG	NT NA ECT LOCA LING LING PLE M E BEG LER: GER:	AME: NAME: ATION: CO: METHOD: METHOD: F. AI R. La	North Eu Eunice, N Lea Coul White Dr Rotary/M Shovel/S 9/15/05 len/J. White	North A Inice Gas New Mex Inty, New Is Post Vater Plit Spoot ELE	America s Plant kico / Mexico). on DATE EVATIO	- Medial	IRZ Remed	SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" C TYPES GROUT TYPE: Portland Cement SEAL TYPE: Bentonite Chips SCREEN PACK: 8/16 Sand CASING TYPE: 4" Diameter Sch. 40 PVC Blank 9/15/05 WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots	DATE: L DEPTH: -104.0' onc. Slab DEPTHS -29.0' to Surface -34.0' to -29.0' -99.0' to -34.0' -39.0' to Surface -99.0' to -39.0'
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
-5- -10 - -15 - -20 -		Split Spoon Split Spoon Shovel						TOPSOIL CLAY 5YR 3/4 dark reddish brown, rich, arenaceous. CALICHE 2.5YR soft to firm, arenaceous. SANDSTONE 10R 7/4 pale red, medium to fine grained, subangular, well sorted, very friable, rare CALICHE nodules.	
-30 - -35 - -40 -		Shovel Shovel Shovel						SAND 10R 7/4 pale red, medium to fine grained, subrounded, well sorted, loose, rare indurated nodules CALICHE 5YR 8/3 pink below -45°; interbeds of SANDSTONE 5YR 4/4 reddish brown, medium to fine grained, well rounded to subrounded, fair sorting, firm below -55°.	



Shovel

Shovel

Shovel

Shovel

-90

-95

WELL LOG

WELL NO.

MW089SA Page 2 of 2 Tel: 432/687-5400 Fax: 432/687-5401 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS, PT.: T.O.C. DATE: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -104.0' ROJECT NAME: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: SITE LOCATION: Eunice, New Mexico **TYPES DEPTHS** -29.0' to Surface Lea County, New Mexico **GROUT TYPE:** Portland Cement Bentonite Chips DRILLING CO: White Drilling Co. SEAL TYPE: -34.0' to -29.0' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -99.0' to -34.0' SAMPLE METHOD: Shovel/Split Spoon 4" Diameter Sch. 40 PVC Blank -39.0' to Surface CASING TYPE: DATE BEGUN: 9/15/05 DATE COMPLETED: 9/15/05 DRILLER: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -99.0' to -39.0' LOGGER: ELEVATION (T.O.C.): R. Lang FILE NAME: MW089SA.dat UNIQUE NUMBER: 31-014-00764 PLUG BACK: Clay -104.0' to -99.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY MOISTURE RECOVERY DESCRIPTION v. INSTALLATION SAMPLED ن DEPTH Š \supseteq Shovel -55 Shovel -60 Shovel Shovel -70 Shovel -75 Shove -80 Shovel SAND as above; CLAY 10R 5/8 soft as interbeds. -85 GRAVEL multicolored CHERT, fine GRAVEL to 5 mm, well rounded; CLAY 10R 8/4 pink, soft as

interbeds.

CLAY 10R 4/8 red, firm, fat CLAY.



WELL NO.

MW090SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

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PROJECT NUMBER: MT000700.0016

DRILLING METHOD: Rotary/Water

Chevron North America Exploration & Production Co.

STATIC WATER LEVEL:

MEAS. PT.: T.O.C.

DATE: -103.0

DEPTHS

ENT NAME: ROJECT NAME:

North Eunice Gas Plant - Medial IRZ Remediation

HOLE SIZE(S): 7 7/8" SURFACE COMPLETION: TOTAL DEPTH:

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION:

Eunice, New Mexico

Lea County, New Mexico White Drilling Co.

GROUT TYPE: SEAL TYPE:

Portland Cement Bentonite Chips

-36.0' to Surface -31.0' to -26.0'

DRILLING CO:

SAMPLE METHOD: Shovel/Split Spoon

SCREEN PACK: CASING TYPE:

8/16 Sand 4" Diameter Sch. 40 PVC Blank

TYPES

-101.0' to -31.0' -36.0' to Surface

DATE BEGUN:

9/16/05

DATE COMPLETED: 9/16/05

4" Diameter Sch. 40 PVC, 0.020" slots

-101.0' to -36.0'

DRILLER: LOGGER:

R. Allen/J. White R. Lang

ELEVATION (SURF.): ELEVATION (T.O.C.): WELL SCREEN:

FILE N		R. Lan MW0:	ig 90SA.dat	UN	IQUE N	N (T.O.C NUMBER:	.): 31-01	4-00776 PLUG BACK: Bentonite Chips	-103.0' to -101.0'
ОЕРТН	SAMPLED	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ПТНОГОБУ	DESCRIPTION	WELL INSTALLATION
0-									
-5-	Sp Spc	lit on						SAND 2.5YR 4/6 red, fine to medium grained, subangular, well sorted, loose.	
-10	Sho	vel		***************************************				CALICHE 7.5YR 8/2 pinkish white, soft.	
-15	Sho	vel			- Control of the Cont				
-20	Sho	vel				1			
-25	Sho	vel						SANDSTONE 10R 4/4 weak red, medium to fine grained, subrounded to subangular, well sorted, friable, rare CALICHE nodules and CALICHE CLAY nodules 10R 8/4 pink, soft.	
-30	Sho	vel						The Book of the Control of the Contr	<u> </u>
-35	Sho	vel							
-40	Sho	vel							
5	Sho	/el							
-50	Sho	/el							



WELL NO.

MW090SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0016 IENT NAME:

Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8"

STATIC WATER LEVEL:

MEAS. PT.: T.O.C. DATE:

ROJECT NAME:

North Eunice Gas Plant - Medial IRZ Remediation

SURFACE COMPLETION:

TOTAL DEPTH:

Eunice, New Mexico

8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION:

Lea County, New Mexico

GROUT TYPE:

DEPTHS

DRILLING CO:

White Drilling Co.

SEAL TYPE:

Portland Cement **Bentonite Chips**

-36.0' to Surface -31.0' to -26.0'

-103.01

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel/Split Spoon

SCREEN PACK: CASING TYPE:

8/16 Sand

-101.0' to -31.0'

DATE BEGUN:

9/16/05

9/16/05

31-014-00776

4" Diameter Sch. 40 PVC Blank

-36.0' to Surface

DRILLER:

DATE COMPLETED:

4" Diameter Sch. 40 PVC, 0.020" slots WELL SCREEN:

-101.0' to -36.0'

LOGGER: FILE NAME: MW090SA.dat

R. Allen/J. White R. Lang

ELEVATION (SURF.): ELEVATION (T.O.C.): UNIQUE NUMBER:

PLUG BACK:

Bentonite Chips

-103.0' to -101.0'

I ILL I	•/ (10	TE. IVIV	*050	J/ 1.dat	0.1	IIQUL I	NUIVIBER.	3101	4-00776 PLOG BACK. Bentoffile Chips -1	03.0' to -101.0'
ОЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-55 -		Shovel								
-60 -		Shovel							SAND 10R 4/4 weak red, fine grained, subangular, loose, rare CALICHE nodules 10R 8/4 pink, soft, CLAY interbeds below -75'.	
05 -	***************************************	Shovel								
-70 -		Shovel								
-75 -		Shovel								
-80 -		Shovel							CLAY 10R 5/6 red, soft to firm, arenaceous.	
-85 -		Shovel								
-90 -		Shovel						\$25,000 \$25,00	GRAVEL CHERT and lithic GRAVEL to 5 mm, well rounded, loose; CLAY 10R 7/4 pale red, firm as interbeds, arenaceous.	
-95 -		Shovel						n in in in in in in in in in in in in in		
<u> </u>	*****	Shovel						02.02.02.02.02.02.02.02.02.02.02.02.02.0		
		Shovel							CLAY 10R 4/6 red, firm, fat CLAY.	



Shovel

WELL LOG

WELL NO.

MW091SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: JENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -97.51 North Eunice Gas Plant - Medial IRZ Remediation ROJECT NAME: SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **DEPTHS** -21.0' to Surface Lea County, New Mexico **GROUT TYPE:** Portland Cement -26.0' to -21.0' DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -96.0' to -26.0' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -31.0' to Surface 9/22/05 DATE COMPLETED: 9/22/05 DATE BEGUN: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' DRILLER: LOGGER: ELEVATION (T.O.C.): R. Lang FILE NAME: MW091SA.dat UNIQUE NUMBER: 31-014-00777 PLUG BACK: **Bentonite Chips** -97.5' to -96.0' SAMPLING METHOD CLASS **OVM READING** WELL JTHOLOGY. ANALYZED s. MOISTURE RECOVERY **DESCRIPTION** INSTALLATION SAMPLED ن Ś 0 SAND 10R 4/8 red, medium to fine grained, subangular, fair sorting, loose, argillaceous. Spoon -5 CALICHE 5YR 8/2 pinkish white, soft, arenaceous. Split Split -15 Shovel -20 Shovel SANDSTONE 5YR 6/6 reddish yellow, medium to fine grained, subrounded, well sorted, very soft -25 CALICHE nodules. Shovel -30 Shovel SAND 5YR 5/6 yellowish red, medium to fine grained, subrounded, loose CALICHE nodules or -35 interbeds below -40', rare CHERT fragments. Shovel -40 Shovel



WELL NO.

MW091SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -97.51 OJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **TYPES** DEPTHS Portland Cement Lea County, New Mexico **GROUT TYPE:** -21.0' to Surface DRILLING CO: White Drilling Co. SEAL TYPE: **Bentonite Chips** -26.0' to -21.0' -96.0' to -26.0' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand SAMPLE METHOD: Shovel/Split Spoon -31.0' to Surface CASING TYPE: 4" Diameter Sch. 40 PVC Blank DATE BEGUN: 9/22/05 DATE COMPLETED: 9/22/05 DRILLER: ELEVATION (SURF.): 4" Diameter Sch. 40 PVC, 0.020" slots R. Allen/J. White WELL SCREEN: -96.0' to -31.0' LOGGER: R. Lang ELEVATION (T.O.C.): FILE NAME: MW091SA.dat UNIQUE NUMBER: 31-014-00777 PLUG BACK: Bentonite Chips -97.5' to -96.0' SAMPLING METHOD CLASS **DVM READING WELL** LITHOLOGY ANALYZED S. DESCRIPTION MOISTURE RECOVERY INSTALLATION SAMPLED ن ن DEPTH S. \supset Shovel -55 Shovel -60 Shovel Shovel SANDSTONE 10R 4/6 red, very fine grained, well sorted, very hard, siliceous cement. -70 SAND 10R 7/8 light red, medium to fine grained, well sorted, loose, Shovel -75 CLAY 5YR 6/6 reddish yellow, soft, arenaceous. Shovel -80 Shovel GRAVEL multicolored CHERT and lithic GRAVEL, fine GRAVEL to 3 mm. -85 Shovel -90 Shovel -95

CLAY 10R 4/6 red, firm, fat CLAY.



WELL NO.

MW092SA

Page 1 of 2 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401 PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: TOTAL DEPTH: LIENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" -97.0' ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **DEPTHS** -23.0' to Surface Lea County, New Mexico **GROUT TYPE:** Portland Cement DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -26.0' to -23.0' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -96.0' to -26.0' SAMPLE METHOD: Screen CASING TYPE: 4" Diameter Sch. 40 PVC Blank -31.0' to Surface DATE BEGUN: 9/23/05 DATE COMPLETED: 9/23/05 R. Allen/J. White WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots DRILLER: **ELEVATION (SURF.):** -96.0' to -31.0' LOGGER: R. Lang ELEVATION (T.O.C.): FILE NAME: MW092SA.dat UNIQUE NUMBER: 31-014-00778 PLUG BACK: Bentonite Chips -97.0' to -96.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED Ś **DESCRIPTION** MOISTURE RECOVERY INSTALLATION SAMPLED ن Ś \supset 0. SAND 5YR 5/4 dark reddish brown. Screen CALICHE 2.5YR firm, sandy -5 Screen SAND SAND/CALICHE 10R 7/4 pale red, fine to medium grained, subangular, well sorted, some CALICHE. Screen -15 CALICHE/SAND Screen -20 SAND 10R 7/4 pale red, very fine to fine grained, subrounded to rounded grains, loose, well sorted. Screen -25 Screen -30 SAND 5YR 4/4 reddish brown, very fine grained to some medium grains, well rounded, some subrounded, fair sorting, Screen -35 Screen -40 Screen



WELL NO.

MW092SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: LIENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -97.0 ROJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab **DEPTHS** SITE LOCATION: Eunice, New Mexico **TYPES GROUT TYPE:** Portland Cement -23.0' to Surface Lea County, New Mexico Bentonite Chips DRILLING CO: White Drilling Co. SEAL TYPE: -26.0' to -23.0' SCREEN PACK: -96.0' to -26.0' DRILLING METHOD: Rotary/Water 8/16 Sand SAMPLE METHOD: Screen CASING TYPE: 4" Diameter Sch. 40 PVC Blank -31.0' to Surface DATE BEGUN: 9/23/05 DATE COMPLETED: 9/23/05 DRILLER: R. Allen/J. White **ELEVATION (SURF.):** WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' ELEVATION (T.O.C.): LOGGER: R. Lang UNIQUE NUMBER: 31-014-00778 FILE NAME: MW092SA.dat PLUG BACK: Bentonite Chips -97.0' to -96.0' SAMPLING METHOD CLASS **OVM READING** WELL LITHOLOGY ANALYZED ς. DESCRIPTION MOISTURE RECOVERY INSTALLATION SAMPLED ن Š \supset Screen -55 SAND 5YR 4/4 reddish brown, very fine to medium grained, fair sorting, subrounded to rounded, some CALICHE nodules. Screen -60 Screen 65 Screen -70 SANDY CLAY 5YR 4/4 reddish brown, slightly plastic, firm. Screen -75 SANDY CLAY 5YR 4/4 reddish brown, 100% GRAVEL CHERT, small GRAVEL. Screen -80 Screen GRAVEL multicolored, CHERT, some SANDY CLAY, slightly plastic. -85 SANDY CLAY 10R 8/4 pink, very fine grained, well sorted, some SANDY CLAY 5YR 4/4 reddish Screen -90 Screen -95

CLAY dark red brown, "red beds", fine, plastic.



WELL NO.

MW093SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. DATE: IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): TOTAL DEPTH: -97.0' 7 7/8" North Eunice Gas Plant - Medial IRZ Remediation OJECT NAME: SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SITE LOCATION: Eunice, New Mexico **DEPTHS** TYPES Lea County, New Mexico **GROUT TYPE:** Portland Cement -21.0' to Surface White Drilling Co. -26.0' to -21.0' DRILLING CO: SEAL TYPE: Bentonite Chips DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -96.0' to -26.0' SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank -31.0' to Surface 9/26/05 DATE BEGUN: DATE COMPLETED: 9/26/05 **ELEVATION (SURF.):** DRILLER: R. Allen/J. White WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' R. Lang ELEVATION (T.O.C.): LOGGER: FILE NAME: MW093SA.dat UNIQUE NUMBER: 31-014-00779 PLUG BACK: Bentonite Chips -97.0' to -96.0' SAMPLING METHOD S. CLASS **OVM READING WELL** LITHOLOGY ANALYZED MOISTURE RECOVERY DESCRIPTION INSTALLATION SAMPLED ن DEPTH Ś \supset 0. SAND 10R 4/8 red, medium to fine grained, subangular, good sorting, loose. Spoon -5 CALICHE 2.5YR 8/3 pink, soft, SAND 5YR 6/6 light red, fine to medium grained, well rounded, well sorted as interbeds. Split Split -15 Shovel -20 Shovel -25 Shovel -30 SAND 2.5YR 5/6 red, medium to fine grained, well rounded to subrounded, well sorted, loose, rare Shovel CALICHE (probably nodules). -35 Shovel -40 Shovel Shovel



-95

WELL LOG

WELL NO.

MW093SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383

Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0016 STATIC WATER LEVEL: MEAS. PT.: T.O.C. IENT NAME: Chevron North America Exploration & Production Co. HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -97.0" OJECT NAME: North Eunice Gas Plant - Medial IRZ Remediation 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab SURFACE COMPLETION: SITE LOCATION: Eunice, New Mexico **DEPTHS** -21.0' to Surface Portland Cement Lea County, New Mexico **GROUT TYPE:** DRILLING CO: White Drilling Co. SEAL TYPE: Bentonite Chips -26.0' to -21.0' -96.0' to -26.0' DRILLING METHOD: Rotary/Water SCREEN PACK: 8/16 Sand -31.0' to Surface SAMPLE METHOD: Shovel/Split Spoon CASING TYPE: 4" Diameter Sch. 40 PVC Blank DATE BEGUN: 9/26/05 DATE COMPLETED: 9/26/05 WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -96.0' to -31.0' DRILLER: R. Allen/J. White **ELEVATION (SURF.):** LOGGER: R. Lang ELEVATION (T.O.C.): UNIQUE NUMBER: 31-014-00779 PLUG BACK: FILE NAME: MW093SA.dat Bentonite Chips -97.0' to -96.0' SAMPLING METHOD CLASS **OVM READING** WELL ANALYZED LITHOLOGY RECOVERY s. **DESCRIPTION** MOISTURE INSTALLATION SAMPLED ن DEPTH S. \supset Shovel -55 Shovel -60 Shovel Shovel -70 Shovel -75 CLAY 10R 6/8 light red, soft, arenaceous, rare fine GRAVEL. Shovel -80 Shovel GRAVEL multicolored CHERT and lithic GRAVEL to 3 mm, well rounded to angular, CLAY -85 interbeds Shovel -90 Shovel

CLAY 10R 4/8 red, firm, fat CLAY.

ARCADIS

Appendix C

Laboratory Reports CD

STL Laboratory Reports CD

To be provided by

STL

And

Microseeps Laboratory Reports CD

To be provided by

ARCADIS