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STAGE 1 & 2 REPORTS

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FINAL SITE INVESTIGATION REPORT FOR THE FORMER BRICKLAND REFINERY STAGE 1 ABATEMENT PLAN

VOLUME 1

Prepared for:

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June 20, 1996

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Table 3

Background Concentrations of Metals in Soil

Sample Location	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
BG-1 (GCL 1996)	42	102	9.2	11	292	0.12	ND	ND
BG-2 (GCL 1996)	14	102	1.8	8	103	ND	ND	ND
NMEID (Lab SLD)	NA	77	NA	9	150	ND	NA	ND
NMEID (Lab AT)	71	NA	4.2	3	182	0.05	NA	1.2
NMEID (Lab IT)	NA	NA	NA	4.3	160	NA	0.8	NA
USGS Western US	<.01 - 97	NR	NR	3 - 2000	<10 - 700	<.01 - 4.6	NR	NR
Eder	<1.4	NA	0.9 - 5.5	7.5 - 23	6 - 270	<0.02 - 0.11	<1.3	<0.25 - 1.2

All Units are mg/Kg
NA = Not Analyzed
NR = Not Recorded
ND = Not Detected
N = Matrix spike out of acceptable range
* = Digested duplicate out of 20% RPD (relative percent difference)
S = Performed by method of standard additons (MSA)
NMEID background data from **NMEID Listing Site Inspection, January 16, 1990.**
USGS Western US background data from **Shaklette, H.T. et. al, 1971**

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1.0 Executive Summary

The Brickland Refinery site is currently owned by Rexene Corporation (Rexene) and consists of 35 acres located in Sunland Park, Doña Ana County, New Mexico. The former petroleum refinery operated from 1933 to 1958 and was subsequently dismantled. Petroleum hydrocarbons have been detected in soils and groundwater at the site.

Two environmental investigations have evaluated groundwater chemistry and regional and local hydrogeologic conditions that influence the fate and transport of compounds in subsurface soils and the underlying shallow aquifer. These investigations were also conducted to establish baseline conditions prior to determining an appropriate response to the observed petroleum hydrocarbons.

Data obtained from site investigations conducted by Geoscience Consultants, Ltd. (GCL, 1994) and Eder and Associates, Inc. (Eder, 1990) indicate petroleum hydrocarbons in on-site soils are restricted to the southern two-thirds of the facility. Hydrocarbon constituents detected in groundwater monitor wells show a spatial correlation with areas of impacted soil and suggest migration of hydrocarbons from soil to groundwater. Free-phase hydrocarbons are observed in several wells and well points in the southern portion of the site, with a maximum thickness of several feet in MW-10 and WP-26S. GCL studies indicate the areal extent of phase-separated hydrocarbons is much less than originally projected by Eder (1990).

Our evaluation of regional and local geologic and hydrologic conditions indicate the heterogeneous clays and silts in subsurface soils have acted to restrict migration of constituents of concern. The observed petroleum hydrocarbons are confined to the property itself and the narrow strip of land between the site and the Rio Grande. The gates on the three culverts located on the southern half of the site have been closed. Stormwater runoff from the southern portion of the site, where constituents of concern are present in soils, can not occur since the three southern drainage culverts are now closed. There are no known off-site receptors of the observed constituents.

No obvious evidence suggests the site poses a significant threat to human health or the environment. Site conditions make this site a favorable candidate for restoration of soil and groundwater through intrinsic remediation (attenuation and natural biodegradation). A Stage II Abatement Plan will be submitted to address environmental concerns at the site.

2.0 Site History

Located in Sunland Park, New Mexico, the Brickland Refinery site consists of approximately 35 acres situated next to the Rio Grande (Figure 1). From 1933 to 1958, the site was operated as a petroleum refinery. Rexene currently owns the site and operated the refinery from 1955 to 1958, and a quality control laboratory until 1964. Processing equipment and buildings associated with refinery activities have been dismantled and removed. All that remains on site are concrete foundations and rubble. Between 1964 and 1989, the site was leased to various parties to garage and service trucks, graze livestock, and store used bricks (Eder, 1990). Releases of petroleum hydrocarbons during the operational life of the facility resulted in varying impacts to soil and groundwater at the site. The nature and extent of releases were initially investigated by Eder and further quantified by GCL (GCL, 1994).

In 1989, the predecessor of the New Mexico Environment Department, the New Mexico Environmental Improvement Division (NMEID), conducted a Screening Site Inspection (SSI) (NMEID, 1989). The findings of the SSI were submitted to the Environmental Protection Agency (EPA) Region VI for review and possible inclusion on the Superfund National Priority List (NPL). The site is not, nor has it ever been, listed on the NPL. Because all releases of constituents of concern were directly related to petroleum hydrocarbon releases, jurisdiction of the site resides within the regulatory authority of the New Mexico Water Quality Control Commission (WQCC). Because a refinery formerly occupied the site, WQCC jurisdiction is administered by the New Mexico Oil Conservation Division (NMOCD).

2.1 Activities

From 1933 to 1958, the Brickland Refinery processed crude oil into consumer-oriented petroleum products. Typical refinery operations identified at the site in the 1950s included:

- "Petreco" de-salting to remove salt and water from crude oil feed stock
- Single-column crude oil distillation
- Thermal cracking of "heavy" (high boiling point) distillation ends

- Polymerization of "light" (low boiling point) distillation ends into gasoline range fractions
- Platformer reforming of naphtha range fractions into higher octane products (added in early 1950s)
- Clay tower filtration of some petroleum fractions
- Gasoline and kerosene treatment
- Tetra ethyl lead blending

Finished products were stored in tanks on the site (Eder, 1990).

The Eder investigation divided the site into seven distinct areas based on refinery operations, as described below and shown in Figure 2.

Area A: Bulk Petroleum Storage

Area A consisted of aboveground storage tanks (ASTs) and pressure tanks. This area was never used as a production area. Two product storage tanks and two horizontal pressure cylinders were removed after the refinery was shut down. The area is presently covered with construction debris, primarily broken concrete.

Area B: Bulk Petroleum Storage

Product transfer piping crossed this area. Pipeline runs crossed to the storage tanks in Area A. This area is currently covered with debris such as broken stone, concrete, and bricks. Construction/demolition debris does not include drums or other containers that could contain contaminants.

Area C: Former Residences (4)

This area consisted of former pipelines between the main refinery and storage tanks in Area A. Historical photographs also show company housing. Piles of demolition debris are scattered throughout.

Area D: Refinery Transportation Center

This area was used for loading and unloading, vehicle maintenance, warehousing administration, indoor and outdoor storage, and laboratory facilities. A gasoline pump to fuel vehicles was also located in this area.

Area E: Drum and Tank Storage Area

This area was used for petroleum storage, truck loading/unloading racks, drum storage, and truck maintenance facilities.

Area F: Refinery Process Facilities

This was the production area with cracking towers, cooling towers, and other refinery process equipment. There was also a cooling water holding pond.

Area G: Cooling Water Lagoons and Slop Oil Lagoons

Historical information shows this area consisted of a number of surface impoundments and tanks. Aerial photographs show the area was covered by sand dredged from the Rio Grande by the U.S. Army Corps of Engineers.

In 1958, the Brickland Refinery processed approximately 4,000 barrels of crude oil feed stock each day. By comparison, a typical refinery processes 168,000 barrels each day of crude oil feed stock in 1958 (Eder, 1990); therefore the Brickland Refinery was relatively small.

2.2 Nature of Releases

During the refinery's operation, hydrocarbon releases apparently originated from spills and leaks in storage tanks and underground piping between refinery units. Leaking pipes and tanks were either repaired or replaced, as necessary. The refinery recovered released hydrocarbons by excavating small pits and removing the accumulated material with a vacuum pump. The recovered hydrocarbon was reprocessed or returned to storage, depending on its condition. Rexene has attempted to locate spill records and documentation, but thus far, these appear not to exist. Therefore, further discussion of the nature of specific releases at this site would be conjectural.

2.3 General Site Conditions

The site is adjacent to the Rio Grande, and presently vacant except for foundations from former refinery structures. Some construction and demolition debris is present on the site, including concrete from the refinery structures and rubble from road construction. Native vegetation grows over most of the site, but is more concentrated at the northern portion of the property.

The area in the vicinity of the site is composed primarily of residential, mixed residential/commercial, and commercial/industrial property. Figure 3 shows the status of land usage within a mile of the site. A list of property owners is included in Appendix A. The site adjoins several private and government land parcels that are described below:

- A private residence, owned by Evangelina Canales, is located adjacent to the northern property boundary.
- Property along the eastern site boundary, on either side of the Rio Grande, is owned by the International Boundary and Water Commission (IBWC).
- Private property, owned by Joseph J. Werthman, et. al, is located just south of the site; however, a narrow strip of IBWC land occurs between it and the site.
- Land south of the Werthman property and directly to the west of the site is owned by the American Eagle Brick Company and includes right-of-ways granted to the Southern Pacific Railroad. The levee road along the west side of the site is apparently located on this railroad right-of-way.

Land usage in the area of the site was determined from information gathered from County Assessors offices in Doña Ana County, New Mexico and El Paso County, Texas.

Climate in the lower Mesilla Valley is characterized as arid continental with wide temperature ranges, low humidity, high evaporation, and low precipitation. Precipitation occurs mostly as rain; about one-half of the total annual precipitation occurs from July to September. Rainfall during these three months is usually from brief, intense thunderstorms (Eder, 1990). Annual precipitation at the site averages

10 inches per year. Pan evaporation is in excess of 90 inches per year, and therefore much of the precipitation evaporates.

2.4 Previous Site Investigations

In response to a neighbor's complaint about the death of shade trees on his property located just north of the site, the NMEID conducted a SSI (NMEID, 1989). The NMEID concluded constituents of concern were present in site soils and had migrated to groundwater. The NMEID did not observe releases to surface water. In addition, no groundwater users were identified within 3 miles of the site. Releases of hydrocarbons do not extend into the northern portion of the site. In addition, groundwater flow from beneath the site is to the south or southeast. Therefore, hydrocarbon releases at the site can be eliminated as a cause for the death of the shade trees.

In 1990, Rexene selected Eder and Associates, Inc. to conduct an expanded Phase I investigation of the site (Eder, 1990). The investigation focused on determining the nature and extent of hydrocarbon releases to subsurface soils and groundwater beneath the site. The field program included 15 monitoring wells, 24 soil borings, 91 backhoe test pits, and the collection of 20 surface soil, hand auger, river, and stream-bank samples (Figure 4). Some general conclusions of this report were:

- "Ambient groundwater chemistry would be characterized as saline and would not meet drinking water standards without regard to the petroleum-related contaminants found beneath the former refinery."

- "A review of the available data and reports for the 3-mile radius from the site did not reveal any drinking water wells that could intercept groundwater from the site. Surface water samples collected from the Rio Grande at points upstream, adjacent to, and downstream of the site were essentially indistinguishable in chemical quality."

- "There does not appear to be significant human or environmental exposure to this contamination. Heavy metals found in the soil appear to be chemically bound to the soil and are not readily leaching into the groundwater. Groundwater does contain dissolved volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), which relate to petroleum, however, no halogenated or solvent-related VOCs were found."

The results of this investigation are summarized in Section 3.0. A detailed description can be found in the Phase I Investigation Report by Eder (1990).

GCL conducted a remedial investigation at the site in June and July of 1994 (GCL, 1994). The objectives of this investigation were to better characterize the chemical, physical, and biological properties of site soils to determine the influence these factors might have on natural degradation, dispersion, and attenuation of hydrocarbon constituents, and to evaluate potential remedial actions appropriate for site conditions.

As part of the investigation, GCL completed 14 soil borings, excavated six test trenches, and installed four monitoring wells and numerous well points. The screened intervals of all monitoring wells and well points at the site are listed on Table 1. Over 100 soil samples were collected as part of the investigation. These samples were used to characterize the geological, chemical, physical, and biological subsurface conditions. The results also provided an estimate of the vertical and horizontal extent of hydrocarbons occurring in the subsurface. The results of this investigation are summarized in Section 3.0. Detailed descriptions can be found in the Remedial Investigation Report for the Former Brickland Refinery (GCL, 1994).

3.0 Site Characterization

3.1 Environmental Setting

3.1.1 Regional Hydrogeology

The Brickland Refinery site is located at the southern portion of the Mesilla Valley near the United States and Mexico border on the western flood plain of the Rio Grande, northeast of the Cerro de Cristo Rey uplift (Figure 1). The southern portion of the Mesilla Valley is bounded by the Franklin Mountains on the east and the Cerro de Cristo Rey uplift on the west.

Surficial unconsolidated material in the valley consists of the Quaternary Rio Grande alluvium. This alluvium is estimated to be about 70 to 80 feet thick in the central portions of the valley, becoming very thin near the bedrock highs at valley margins. Below the alluvium is the folded Muleros formation comprised of shaley limestones and siltstones.

Groundwater occurs within the alluvium, with a regional groundwater flow direction toward the southeast. Sources of groundwater are from upgradient throughflow, upland runoff, direct infiltration of precipitation, and recharge from the Rio Grande when, during high-flow times, it is a losing stream. Groundwater discharges in the valley are primarily pumpage, evapotranspiration, downgradient throughflow, and discharge to the river at low-flow times, when the river is a gaining stream. Surface water is dominated by the Rio Grande whose flow is predominantly controlled by upstream Elephant Butte and Caballo reservoirs (Lovejoy, 1976).

3.1.2 Site Hydrogeology

The site is situated on Quaternary alluvial deposits of the Rio Grande. According to soil borings, trenching, and monitoring well lithologic logs, the sediments at the site can be placed into two general categories: a near-surface zone (0 feet to 15 feet) of shallow, thin-interbedded heterogeneous clastic sediments and a deeper unit of relatively homogeneous sand, as shown in Appendices B, C, and geologic cross-sections (Plates A, B, C). The deeper lithology is observed in the deepest borehole at about 30 to 35 feet below ground surface (bgs).

The upper lithologic zone consists of thin-bedded, fine-grained sand, silt, and silty clays. The deeper lithology consists of fine-grained sand characterized by well-sorted, subrounded sand grains that appear to coarsen with depth.

Groundwater beneath the site occurs under confined and unconfined conditions. Much of the shallow groundwater occurs in thin lenses of silt and fine sand interbedded with clay-rich sediments that do not readily transmit water. The depth to water measured in monitoring wells ranges from about 1.7 to 11.4 feet bgs; water level elevations are listed in Table 2. The water table elevation varies up to about 3.5 feet with levels typically highest in summer and lowest in winter, correlating with irrigation and changes in flow in the Rio Grande. Plots of water levels versus time for individual monitoring wells are included in Appendix D.

Groundwater flows primarily from northwest to southeast under a relatively flat hydraulic gradient of about 0.0005 to 0.0008 feet/foot across the site. Groundwater elevation contour maps for four consecutive quarters from September 1994 through June 1995 are shown in Figures 5 through 8. The direction of groundwater flow maintained an overall southerly trend, parallel to the Rio Grande. Based on water level differences in monitoring well clusters MW-3S, MW-3D, MW-6S, and MW-6D (deep and shallow), small vertically downward and upward hydraulic gradients of up to 0.1 foot have been observed.

Rio Grande discharge rates between 1990 and 1995 average approximately 700 cubic feet per second (cfs). During high flow times of the year, the river will recharge the shallow aquifer, and, during low-flow times, the aquifer will recharge the river. As shown in Figures 5 through 8, the direction of groundwater flow remains relatively constant, however.

Slug test results show an average hydraulic conductivity of 14 feet per day for the shallow interbedded sands, silts, and clays (Section 3.5). The slug test data and results are in Section 3.5. An overall porosity of 25 percent is assumed to be representative of such materials (McWhorter and Sunada, 1977). Groundwater flow velocity within the shallow materials is therefore estimated at about 14 to 20 feet per year.

Variations in water levels appear related to the flow in the Rio Grande. For example, in December 1994 (Figure 6), water levels are the lowest compared to the other quarters (see Figures 5, 7, and 8). Flow in the Rio Grande in December 1994 was also much lower than in the other quarters (IBWC, 1996).

3.2 Unsaturated Zone

Two phases of unsaturated zone soil investigations have been completed at the site. A Phase I Investigation conducted by Eder in March 1990 included 24 soil borings, 91 backhoe test pits, and 20 surface soil, hand-auger, river and stream-bank samples (Eder, 1990). Sample locations are provided in Figure 4 and results of this investigation are provided in Tables 3 through 10 herein. In June and July of 1994, GCL conducted further soil sampling at the Brickland Refinery site that was reported in GCL's Remedial Investigation Report (GCL, 1994). Sample locations and results from GCL's investigation are shown in Figures 9 through 12 herein. Fourteen boreholes were drilled and six trenches were excavated. Lithologic logs were compiled for each sampling during field operations. Over 70 soil samples were collected for chemical analysis to further characterize hydrocarbon releases and locate potential source areas contributing to groundwater impacts. Selected soil samples were analyzed for physical and biological properties. The results are briefly summarized in this section. Supporting boring logs and trench diagrams from GCL (1994) are provided in Appendix C and Plates A, B, and C.

To characterize the nature and extent of hydrocarbon releases associated with past petroleum refining operations, soil samples were analyzed for total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene, and xylenes (BTEX); and polycyclic aromatic hydrocarbons (PAHs). In addition, soil samples were collected from several areas of the site to identify potential source areas. These samples were analyzed for metals, including arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium.

Although both Texas, New Mexico and other states have guidelines established for many types of petroleum hydrocarbon release sites, neither guidelines nor standards have been established for metals such as lead. Therefore, throughout the text, we will be comparing the concentrations of constituents of concern to both natural background values and EPA guidelines.

3.2.1 Background Studies - Metals

Studies conducted by the El Paso City-County Health Department and the Texas Air Control Board (Appendix E) have indicated that background surface soil metal concentrations are very likely related to airborne deposition from stack emissions at the nearby Asarco smelter. Background concentration levels in areas near the

refinery have ranged from 400 to 600 parts per million (ppm) for lead and 20 to 1,100 ppm for arsenic. NMEID collected background samples for metals at the site. In addition, GCL collected two background samples for metals in soil, one north and hydraulically upgradient from the site, and the other south and hydraulically downgradient from the site. The results of the NMEID and GCL sampling are presented in Table 3 and indicate the following:

- Background lead concentrations from GCL sampling range from 103 ppm north of the site and 292 ppm south. NMEID background concentration for lead ranges from 150 to 182 ppm.

- Background arsenic concentrations from GCL sampling range from 14 ppm to the north of the site to 42 ppm to the south. NMEID background concentration for arsenic is 71 ppm.

- Background chromium concentrations from GCL sampling range from 8 ppm to the north of the site to 11 ppm to the south. NMEID background concentrations range from 3 to 9 ppm.

- Background barium concentrations from GCL sampling are 102 ppm both north and south of the site. NMEID background concentration for barium is 77 ppm.

- Background cadmium concentrations from GCL sampling range from 1.8 ppm north of the site to 9.2 ppm to the south. NMEID background concentration for cadmium is 4.2 ppm.

- Background concentrations for the other metals sampled by GCL were non-detect north and south of the site, with the exception of mercury, which was 0.12 ppm to the south of the site. Other NMEID background metal concentrations were 0.05 ppm for mercury, 0.8 ppm for selenium, and 1.2 ppm for silver.

GCL and NMEID background sampling results are in agreement. The relatively small variation in some metals concentrations may be the result of normal variable distributions of metals in the soil and/or from irregular or intermittent dispersement of metals from the nearby Asarco smelter.

3.2.2 Soil Sampling

A summary of the soils data is provided below (see Figure 4).

Area A - Bulk Petroleum Storage

The Eder investigation for Area A included seven test pits and one hand auger boring. No additional soil sampling was conducted by GCL. The results of the soil sampling are discussed below:

- Photoionization detector (PID) screening did not detect VOCs in six of the seven test pits. Therefore, those six test pits were not sampled for TPH, BTEX, or PAHs.

- One test pit, A-TP-65, was sampled and found to contain 500 micrograms per kilogram (μg/kg) of xylenes from a 4-inch thick layer of stained soil (Table 4a).

- Two samples were composited from soil collected from each of the seven test pits and one hand auger boring for screening purposes (Eder, 1993). One uncomposited sample was collected from test pit A-TP-65. Table 4b shows the results of metals analyses for these samples, which were within the range of background concentrations shown in Table 3.

Area B - Bulk Petroleum Storage

Four test pits and four hand auger borings were completed by Eder in Area B. No additional soil samples were collected by GCL. The results of the soil sampling are discussed below:

- PID screening did not detect VOCs and oil and grease samples were below screening criteria in all the test pits and hand auger borings. Therefore, they were not sampled for TPH, BTEX, or PAHs.

- Soil samples from the four hand auger borings were analyzed for metals (Table 5a). High concentrations of copper (1370 milligrams per kilogram [mg/kg]), chromium (860 mg/kg), and lead (2830 mg/kg) were detected in hand auger boring B-HA-4, located in the northeastern corner of Area B. Hand auger boring B-HA-1, located in

the southeastern corner of Area B, had slightly elevated concentrations of copper (390 mg/kg) and lead (427 mg/kg).

Area C - Former Residences

Eder collected 10 samples from eight test pits and GCL completed one hollow-stem auger boring in Area C. The results of the soil sampling are discussed below:

- PID screening triggered BTEX sampling for three of the 10 Eder test pits, C-TP-1-2, C-TP-2-2, and C-TP-4. Of the three, only soil from test pit C-TP-4, located in the southwestern corner of Area C, contained BTEX constituents with 14,700 µg/kg benzene; 75,500 µg/kg ethylbenzene; and 125,800 µg/kg xylenes (Table 6a).

- TPH was detected at a concentration of 97 mg/kg in a soil sample collected from hollow-stem auger boring B-01 (GCL), located in the western portion of Area C, from a depth of 4 to 6 feet below ground surface (Figure 9). No BTEX constituents were detected in this sample (Figure 10).

- PAHs were detected in test pit C-TP-8 (Eder), located in the northeast corner of Area C within an area of hydrocarbon-stained soil (Table 6b). PAHs were not detected in hollow-stem auger boring B-01.

- Eight soil samples were collected from test pits, and two were collected from hollow-stem auger boring B-01 and analyzed for metals. Metals were detected in all the samples at below or near background concentrations, with the exception of C-TP-5 which contained lead at a concentration of 683 mg/kg (Table 6c and Figure 11b).

Area D - Refinery Transportation Center

Twenty-seven hollow-stem auger borings (24 by Eder and three by GCL), and seven test pits (six by Eder and one by GCL) were completed in Area D. In addition, one soil sample was collected from monitoring well MW-4. The results of the soil sampling are discussed below:

- TPH was detected in hollow-stem auger borings B-02, B-03, and B-04 and test pit TR-2 in concentrations ranging from 165 mg/kg in TR-2 to 1240 mg/kg in B-02 (Figure 9).

- BTEX samples were collected from the test pits and detected the following ranges of BTEX constituents:

  — Benzene concentrations ranged from 2,300 μg/mg in D-TP-52 to 17,900 in D-TP-54, both of which are located in the western portion of Area D (Table 7a and Figure 10).

  — Toluene was detected only in test pit TR-2, located in the southwest corner of Area D, at a concentration of 3,800 μg/kg (Figure 10).

  — Ethylbenzene concentrations ranged from 1,300 μg/kg in D-TP-53 and D-TP-72 to 44,600 μg/kg in D-TP-32 (Table 7a and Figure 10).

  — Xylene concentrations ranged from non-detect in D-TP-2, D-TP-52 and D-TP-53 to 25,000 μg/kg in D-TP-51 (Table 7a and Figure 10).

  One sample collected from B-02 was analyzed by toxicity characteristic leaching potential (TCLP) and detected benzene at 260 μg/L, below the regulatory level of 500 μg/L (Figure 10).

- Results of soil samples obtained by Eder showed the highest PAH concentration in pits adjacent to the crude unloading racks and adjacent to the north most storage warehouse (Table 7b).

- Soil samples obtained by GCL from test pit TR-2 showed presence of 1-methyl naphthalene (12,000 μg/kg) and 2-methyl naphthalene (12,000 μg/kg) from TR-02 at 4 feet to 6 feet (Figure 12). These results correlate with the soil samples obtained by Eder for B-22 for 2-methyl naphthalene (18,500 μg/kg) (Table 7b).

- Cadmium, copper, zinc, and arsenic were found in one or more samples collected by Eder from hollow-stem auger borings across this area (Table 7c).

- Soil samples obtained by GCL from 6 to 8 feet from B-02 showed low metal concentrations and all TCLP metals below the maximum concentration limits (Figure 11a).

Area E - Drum and Tank Storage

Twenty-five test pits (20 by Eder and one by GCL) were excavated, along with two hollow-stem auger borings (GCL), and two surface soil samples (Eder) collected within Area E. Results of the soil sampling are discussed below:

- TPH concentrations ranged from 1,230 mg/kg at the 2- to 4-foot interval to 4,670 mg/kg at the 0- to 2-foot interval in hollow-stem boring B-07 (GCL). Analytical results are shown on Figure 9. No TPH samples were collected in Area E during Eder's phase of the investigation.

- BTEX samples were collected from nine test pits (eight Eder and one GCL) and two hollow-stem auger borings (GCL). VOC analyses by Eder showed widespread BTEX constituents in the southern part of the area. A soil sample (E-TP-32) collected adjacent to the former truck parking area contained 292,000 μg/kg total BTEX (Table 8a). Only one sample obtained by GCL was analyzed for BTEX (total BTEX 71,700 μg/kg). Results obtained are similar to those obtained by Eder for E-TP-20 (total BTEX 53,200 μg/kg) in the vicinity of TR-1.

- Total PAH samples obtained by Eder ranged across the area from nondetect in E-TP-68 mg/kg to 227 mg/kg in E-TP-21 (Table 8b). Soil samples obtained by GCL from TR-1 at 2 feet to 4 feet and analyzed for PAH detected 1-methyl naphthalene, 2-methyl naphthalene, and naphthalene (Figure 12).

- Lead was the only metal found by Eder in Area E significantly above background values. The areas where lead was found in samples were limited to the southernmost transects, with the highest concentration of lead, 139 mg/kg in E-TP-26, found adjacent to the truck loading area (Table 8c). Lead concentrations from samples obtained by GCL from TR-01 at 0 feet to 2 feet (53 mg/kg) and 2 feet to 4 feet (9-10 mg/kg) were low, confirming Eder results obtained from E-TP-29 (88.4 mg/kg; Figure 11a).

Area F - Refinery Process Facilities

Twenty-nine test pits (27 by Eder and two by GCL) were excavated in Area F. In addition, six hollow-stem auger borings (four by Eder and two by GCL) were completed along with four surface samples collected by Eder during the 1990 investigation. The results of the soil sampling are discussed below:

- TPH was detected in all four GCL hollow-stem auger borings (Figure 9). The highest concentrations were 1,790 µg/kg in boring B-08 from 6 feet to 8 feet bgs. No other TPH samples were collected in this area.

- BTEX concentrations were widespread in soil within Area F (Table 9a and Figure 10). Benzene was found in soil sampled from test pit TR-3 at a concentration of 219,000 µg/kg at a depth of 3 feet bgs. One sample collected for TCLP benzene detected 1,100 micrograms per liter (µg/L), which is above the 500 µg/L regulatory level.

- PAHs were detected in soil sampled from test pits (Eder and GCL) and hollow-stem auger borings (GCL) (Table 9b and Figure 12).

- Three metals were distributed in soil samples obtained by Eder across Area F at concentrations significantly over background: copper, lead, and zinc. Lead concentrations in soil generally ranged from 0.008 mg/kg in F-TP-44 to 377 mg/kg in F-TP-34 (Table 9c). One TCLP lead sample obtained from B-08 by GCL at 4 feet to 6 feet was 82 mg/kg, which is above the 5 mg/kg regulatory level for TCLP lead (Figure 11). However, groundwater monitoring wells MW-7 (located nearby), MW-17, and MW-6S (located downgradient from B-08) did not detect any lead, nor has lead been detected in any other monitoring wells.

Area G - Cooling Water Lagoons and Slop Oil Lagoons

Area G is the southernmost and furthest downgradient area of the site and contained a number of surface impoundments and storage tanks. Nineteen test pits (17 by Eder and two by GCL), four hollow-stem auger borings (GCL), and three surface soil samples (Eder) were completed in Area G. The results of the soil sampling are discussed below:

- Although free-phase product occurs sporadically around the site as a sheen or extremely thin layers, one well in Area G, MW-10, contained a substantial thickness of free-phase product (up to 5 feet). Eder (1990, Plate 5), has previously projected free-phase product to occur as either a visible sheen or in measurable thicknesses extensively throughout the southern two-thirds of the site. However, further investigation by GCL determined that free-phase product occurs locally, trapped in discontinuous layers of silt and fine sand (Figure 13).

- TPH concentrations were detected in all the GCL test pits and hollow-stem auger borings (Figure 9). The highest concentration was 6,150 mg/kg from 10 to 12 feet bgs in boring B-13, located at the southern end of the site. No other samples were collected for TPH analysis.

- BTEX constituents are present in soil throughout Area G in varying concentrations. The highest concentration of total BTEX obtained was from test pit G-TP-12-2 at 253 mg/kg (Table 10a). One sample collected from hollow-stem auger boring B-12 (GCL) for TCLP analysis of benzene was non-detect (Figure 10a).

- The highest PAH concentrations were found on the north side of Area G and near the southeastern corner (Table 10b). The remainder of the area which has low PAH concentrations may reflect the previous locations of the four cooling water ponds that did not have any major source of hydrocarbons. 1-methyl naphthalene, 2-methyl naphthalene, naphthalene, phenanthrene, and pyrene were the only PAHs detected in samples obtained by GCL (Figure 12). Highest concentration of 2-methyl naphthalene detected by GCL was 160,000 μg/kg from B-11 at 8 to 10 feet.

- Elevated concentrations of copper and lead were detected in the central part of Area G and near the eastern fence line in several test pits and surface soil samples excavated by Eder in the 1990 investigation (Table 10c). Soil samples from GCL's test pits and hollow-stem auger borings did not detect metals above background concentrations (Figure 11).

3.2.3 Comparative Studies of Metals in Soil

The purpose of the comparative analysis is to determine the validity of anomalously high concentrations of some metals, primarily lead, that were identified in the Eder 1990 investigation. These anomalously high concentrations are considered suspect and may provide misleading input to the overall remedy selected for the site. In April 1996, GCL collected duplicate samples from as near as possible to selected Eder samples to confirm the level of metals concentrations. The GCL sample locations were selected to meet the following objectives:

- Provide a present-day comparison with previous representative metals concentrations from soil borings (B-1), hand-auger borings (B-HA-4), test pits (E-TP-26, F-TP-3), and surface samples (E-SS-4, and G-SS-8).

- Provide a comparison of the highest, moderate, and lowest concentrations of surface and subsurface metals from the earlier results obtained from Areas E, F, and G (E-SS-4, E-TP-26, F-SS-6, F-TP-34, G-SS-8, and G-TP-70), which are the areas previously indicating the highest metals impact.

- Provide a comparison with moderate to low metals concentrations from areas A, B, C, and D, where the occurrence of metals in soil is less prevalent (B-1 and B-HA-4).

The results of the sampling are summarized below. GCL results are compared with the Eder investigation, followed by a brief discussion of any variance in the data. Table 11 includes data collected from selected locations by Eder in 1990, and by GCL in April 1996. For each location, data from each investigation are presented for comparison by each selected element. The elements selected are the eight Resource Conservation and Recovery Act (RCRA) metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. All analyte concentrations are in mg/kg (ppm). Table 11 also presents background metals concentrations that were obtained by GCL. An explanation summarizing differences is presented at the end of this section.

Area B

- Location: B-HA-4
- Type of sample: shallow subsurface soil

- Sample depth: approximately 24 inches
- Sample method: hand auger
- Soil description: moist sand with no apparent odor or discoloration down to a depth of approximately 15 inches, below which the soil was black, petroleum saturated, with a strong petroleum odor

Eder detected 5.98 ppm arsenic at this location, while GCL's sample results for arsenic are 10 ppm. These results are within an order of magnitude and are comparable. Laboratory documentation for the Eder sample reported the analysis of the matrix spike for this sample was out of the acceptance range and the digested duplicate for this sample exceeded the 20 percent relative difference considered acceptable.

The Eder sample identified 860 ppm chromium, while GCL's sampling resulted in 9 ppm. The GCL result is two orders of magnitude lower than the Eder result.

The Eder sample found 2,830 ppm lead, while GCL detected 75 ppm at this location. The GCL result is one and two orders of magnitude lower than the Eder result. Laboratory results for the Eder sample reported that the analysis of the matrix spike for this sample was out of the acceptance range.

The irregularities noted for Eder laboratory results are indicative of non-homogeneities or other anomalies in the sample matrix. The GCL samples are considered more accurate representations of actual subsurface conditions.

Area E

- Location: E-TP-26
- Type of sample: shallow subsurface soil
- Sample depth: approximately 20 inches
- Sample method: hand auger
- Soil description: moist sand with no apparent odor or discoloration. Buried debris (brick, pipe, and rock) made obtaining sample difficult.

Eder detected 32.2 ppm arsenic at this location, while GCL's sample results for arsenic are 31 ppm.

The Eder investigation did not analyze for chromium, while GCL's sampling resulted in 12 ppm.

The Eder investigation found 139,000 ppm lead, while GCL detected 18,300 ppm at this location. The GCL result is approximately one order of magnitude lower than the Eder result. The laboratory results for the Eder sample did report the analysis of the matrix spike for this sample was out of the acceptance range.

Area E

- Location: E-SS-4
- Type of sample: surface soil
- Sample depth: approximately 6 inches
- Sample method: hand trowel
- Soil description: lightly moist sand with no apparent odor or discoloration

Eder did not sample for arsenic at this location. GCL's sample result for arsenic is 30 ppm.

The Eder investigation identified 75 ppm chromium, while GCL's sampling resulted in 14 ppm. The GCL result is nearly one order of magnitude lower than the Eder result.

The Eder investigation found 1,000 ppm lead, while GCL detected 1,100 ppm at this location. These results are essentially the same.

Area F

- Location: F-TP-34
- Type of sample: shallow subsurface soil
- Sample depth: approximately 20 inches
- Sample method: hand auger
- Soil description: black, petroleum-saturated clay. Encountered buried red brick at 15 inches deep.

Eder did not sample for arsenic at this location. GCL's sample result for arsenic is 15 ppm.

The Eder investigation did not analyze for chromium at this location, while GCL's sampling resulted in 13 ppm.

The Eder investigation found 377,000 ppm lead, while GCL detected 83 ppm at this location. The GCL result is four orders of magnitude lower than the Eder result. Laboratory documentation for the Eder sample reported that the digested duplicate for this sample was out of the 20 percent relative percent difference acceptance range. This indicates irregularities and/or non-homogeneity in the sample matrix. GCL believes the Eder result to be anomalously high. Order of magnitude variations would not be unexpected, but four orders of magnitude, as is the case for this comparative analysis, is excessive. The GCL sample is considered more reliable and representative of actual conditions.

Area F

- Location: F-SS-6
- Type of sample: surface soil
- Sample depth: approximately 6 inches
- Sample method: hand trowel
- Soil description: discolored, reddish brown 4 inches deep

Eder did not sample for arsenic at this location. GCL's sample result for arsenic is 58 ppm.

The Eder investigation detected 8 ppm for chromium at this location, while GCL's sampling resulted in 13 ppm. These values are slightly different, but are within the same order of magnitude.

The Eder investigation found 260 ppm lead while GCL detected 1,500 ppm at this location. The GCL result is one order of magnitude greater than the Eder result.

Area G

- Location: G-SS-8
- Type of sample: surface soil
- Sample depth: approximately 8 inches
- Sample method: hand trowel
- Soil description: moist sand with no apparent odor or discoloration

Eder did not sample for arsenic at this location. GCL's sample result for arsenic is 13 ppm.

The Eder investigation identified 7 ppm chromium, while GCL's sampling resulted in 9 ppm. These results are essentially identical.

The Eder investigation found 24,000 ppm lead while GCL detected 36 ppm at this location. The GCL result is three orders of magnitude lower than the Eder result.

The only other results that can be compared are for mercury, which Eder reported 0.15 ppm in 1990 and GCL reports as non-detect.

Area G

- Location: G-TP-70
- Type of sample: deep subsurface soil
- Sample depth: approximately 85 inches
- Sample method: hand auger
- Soil description: moist sand with no apparent odor or discoloration down to a depth of approximately 72 inches, below which the soil was black, petroleum saturated, with a strong petroleum odor

Eder did not sample for arsenic at this location. GCL's sample result for arsenic is 65 ppm.

The Eder investigation identified 97 ppm chromium, while GCL's sampling resulted in 104 ppm. These results are essentially the same.

The Eder investigation found 34,900 ppm lead, while GCL detected 7,200 ppm at this location. The GCL result is one order of magnitude lower than the Eder result. Laboratory documentation for the Eder sample reported that the analysis of the matrix spike for this sample was out of the acceptance range.

Conclusion

While much of the comparative sampling resulted in similar concentrations of metals in the soil, sufficient variations occurred to raise concern that anomalously high concentrations of metals (especially lead) reported by Eder (1990) are not representative of true site conditions. Irregularities identified for some of the Eder (1990) analyses indicate nonhomogeneity of the sample matrix, and therefore introduce some doubt as to accuracy and reproducibility of the results. Where single order of magnitude variances have been identified by comparative analysis,

these are considered to reflect the normal range of concentrations in sampling a soil matrix. However, where three and four orders of magnitude variances occur together with irregularities in Eder (1990) analytical results in samples with unusually high concentrations, the Eder results are considered suspect. Comparative analysis of sample results for location F-TP-34 is an example; we believe the 83 ppm concentration for lead determined by GCL to be more reliable than the 337,000 ppm Eder result.

3.3 Groundwater

To document and determine trends in groundwater chemistry, groundwater samples were collected and free-phase hydrocarbon thicknesses have been measured on a quarterly basis from 1993 to 1995. These samples are briefly summarized below and more extensive discussions can be found in the Remedial Investigation Report (GCL, 1994).

3.3.1 Free-Phase Hydrocarbon

Based on the results of the 1990 investigation conducted by Eder, free-phase floating product was predicted to occur in the southern two-thirds of the site as a visible sheen or a measurable thickness (Eder, 1990, Plate 5). Since then, additional investigations by GCL have determined the actual extent of free-phase floating product to be discontinuous.

Free-phase hydrocarbon thickness has been measured on a quarterly basis since December 1993. A map showing the extent of free-phase hydrocarbons is shown on Figure 13. The occurrence of free-phase hydrocarbons and variations thicknesses over time are shown in Table 12 for monitoring wells and well points.

Free-phase hydrocarbon occurs locally and appears to be associated primarily with lenses of silt and fine sand. These lenses are discontinuous throughout the site, and, although somewhat conductive horizontally, have not been found to contain significant volumes of free-phase hydrocarbons. Hydrocarbons occurring in the subsurface in this manner are therefore effectively trapped in place.

The difference between GCL's current interpretation and Eder's initial projection of wider-spread free-phase is attributable to GCL's more detailed understanding of the site stratigraphy as described previously. Although free-phase product can be

detected in various locations on the site, it is not valid to project it continuously. Table 12 shows results of product thickness measurements and clearly confirms the discontinuous nature of its occurrence in the subsurface.

3.3.2 Benzene, Toluene, Ethylbenzene, and Xylene Concentrations

Quarterly analytical results for BTEX constituents are listed in Table 13; total BTEX concentrations versus time plots are shown in Appendix F; and benzene concentration contour maps can be found in Figure 14. Toluene, ethylbenzene, and xylenes were generally below WQCC action levels, therefore contour maps were not generated for these constituents. High and low seasonal trends of BTEX are variable at the site. However, MW-6S has shown several cycles with high concentrations in the summer months.

Well locations with high BTEX concentrations coincide with areas of known hydrocarbon occurrences in soil. They are associated with historic site operations in the former refinery areas near the west-central portion of the facility and the sludge pond area near the southern boundary of the site.

Monitoring well MW-6S is an off-site groundwater monitoring well located east of the southeastern portion of the site. This well is the only off-site well adjacent to the river that has fairly consistently shown the presence of benzene. The benzene found in MW-6S does not appear to have had an impact on sediments and surface water because benzene has not been observed in sediment and surface water samples (Tables 14 and 15).

GCL collected surface water samples from the Rio Grande adjacent to the site to determine if benzene from the site is impacting the Rio Grande (Table 14). Since sampling of the Rio Grande water has failed to detect benzene, direct sampling of soils immediately adjacent to MW-6S and from the nearby river bed was completed.

Samples from sediments near MW-6S could contain benzene due to sorption onto clay and silt size fractions within the sediment, if a pathway exists from the groundwater at MW-6S. The analytical results of 20 sediment samples indicate only one analyte, total xylenes, is present at the detection limit (ppb) in the sediments adjacent to the Rio Grande (Table 15). However, at this low level, xylenes are not a threat to human health or the environment.

3.3.3 Polycyclic Aromatic Hydrocarbons, Phenols, Water Quality Control Commission Metals/Major Cations and Anions

Samples collected during quarterly sampling events have also been analyzed for PAHs, phenols, WQCC metals, and major cations and anions.

Polycyclic Aromatic Hydrocarbons

PAHs have been detected in MW-5, MW-8, MW-11, and MW-15 and well points located in the interior of the site; results are summarized in Appendix F. PAH results for March 1995 are shown in Figure 15. Concentrations have ranged as high as 5,600 ppb at interior locations. Only one off-site well (MW-6S) has shown the presence of any PAHs, which was detected in only one sampling event (June 1995). Therefore, off-site migration of these heavier molecular weight compounds does not appear to have occurred. Quarterly results for individual wells and detected PAH analytes can be found in Appendix G. Concentration versus time plots can be found in Appendix H.

Phenols

Phenols were detected in 10 on-site monitoring wells at concentrations as high as 6,000 ppb during the investigation. Phenols have not been detected in off-site wells. Quarterly results for individual wells and analytes can be found in Appendix I.

Metals

Various WQCC metals have been detected in monitoring wells during the investigation. The most significant finding from the metals analyses was that even though there was one TCLP exceedance for lead in soil, lead was totally absent from any monitoring well on or off site. Among detected metals, arsenic, barium, cadmium, chromium, iron, manganese, mercury, and selenium in groundwater reached or exceeded WQCC groundwater standards, and aluminum, cobalt, copper, molybdenum, nickel, silver and zinc were below WQCC groundwater standards. Quarterly results are shown by monitoring well (Table 16).

Arsenic concentrations in groundwater exceeding WQCC groundwater standards were found in MW4, MW-5, MW-6S, MW-7, MW-8, MW-11, MW-14, MW-15 and MW-17, primarily in September 1994. MW-5 and MW-8 were the only two monitoring wells in which arsenic concentrations were found exceeding WQCC

groundwater standards in most recent sampling event. The highest arsenic concentration was 0.48 milligrams per liter in MW-6S in September 1994 sampling event.

Barium concentrations in groundwater exceeding WQCC groundwater standards were observed in MW-6S, MW-11, and MW-17. Barium concentrations in those three monitoring wells all show some degree of a decreasing trend. No barium was detected above WQCC groundwater standards in most recent sampling event in those three monitoring wells or in groundwater exceeding WQCC groundwater standards in any monitoring well in most recent sampling event.

Cadmium concentrations were observed exceeding WQCC groundwater standards in MW-6D and MW-9S in the sampling event of December 1993, but were all below WQCC groundwater standards in most recent sampling event.

Chromium concentrations were found equal to WQCC groundwater standards only in MW-12 from the September 1994 sampling event.

Iron and manganese concentrations exceeded the WQCC groundwater standards in all monitoring wells except MW-5. Based on available data, a decreasing trend was found for iron in MW-1, MW-3D, MW-3S, MW-6D, MW-6S, MW-7, MW-8, MW-9S, and MW-11, and only MW-6S, MW-8, and MW-9S were found to exceed WQCC groundwater standards in most recent sampling event. An increasing trend was observed in MW-15 for iron. The highest concentration of iron was 13.1 milligrams per liter in MW-14 in September 1994 sampling event.

A decreasing trend for manganese was found in MW-1 MW-3D, MW-3S, MW-4, MW-6D, MW-6S, and MW-9S. However, only MW-3S, MW-5, and MW-8 were found to be below WQCC groundwater standards in the most recent sampling event.

Mercury was found exceeding WQCC groundwater standards only once in MW-14, in the December 1994 sampling event.

Selenium was found to exceed WQCC groundwater standards once in MW-1, MW-3D, MW-3S, MW-5, MW-6S, and MW-8, and twice in MW-12. No selenium was detected in the most recent sampling event in December 1994.

Since groundwater is not used as the source of drinking water, those elevated metal concentrations in groundwater do not appear to pose a human health risk.

The metals detected in site soils appear to be tightly bound or complexed within the naturally-occurring clayey/silty soils.

Results from the other metals follow a similar pattern. Therefore, following approval of NMOCD, this analytical suite was dropped from the quarterly monitoring program and replaced by an annual surveillance sampling event. Quarterly results for individual wells and WQCC metals can be found in Appendix J.

Anions/Cations

All major anions and cations have been observed in wells at the site with the exception of nitrate. Chloride and sulfate are above WQCC groundwater standards. However, some of the highest observed concentrations of chloride and sulfate are observed in the upgradient well MW-12. Based on these observations, these parameters were dropped from the quarterly sampling. Quarterly results for individual wells and major ions can be found in Appendix J.

Summary

Observed groundwater PAH and phenol detections coincide spatially with BTEX values and areas of known hydrocarbon occurrences in the soil. Off-site migration has been minimal and the age of the site (approximately 37 years) indicates that future impacts will be minimal. Metals do not pose a threat to groundwater and are tightly bound within the site soils. The shallow groundwater upgradient of the site is saline and sulfate-rich, suggesting that the shallow groundwater is not suitable as a drinking water source.

3.4 Analyses of Slug Tests at the Site

3.4.1 Introduction

Aquifer slug tests were performed by GCL at the former Brickland Refinery site in July 1995 to determine the hydraulic conductivity of the saturated zone. The results of these slug tests were used to characterize groundwater flow and contaminant transport at the site, and help design a hydraulic model to test the potential off-site impacts that might occur due to the migration of contaminated groundwater.

3.4.2 Local Hydrogeological Conditions

The shallow geology at the site is composed of Quaternary (Holocene) alluvium deposited by the Rio Grande. The sediments can be divided into two lithologies: a shallow, thin-bedded heterogeneous clastics lithology, and a deep, relatively homogeneous sand lithology. The shallow lithology extends from ground surface to about 10 to 15 feet bgs and consists of silty clay, sand, silty sand, and gravelly sand. The deep lithology consists of a thick, homogeneous, well-sorted, subrounded sand that appears to coarsen with depth. The shallow aquifer occurs under confined and unconfined conditions.

3.4.3 General Well Information

Twenty monitoring wells have been installed on and off site. Three of them (MW-3D, MW-6D, and MW-9D) located nearest to the Rio Grande were completed to approximately 35 feet bgs in the deep sand unit, while the other wells were completed to 15 to 20 feet bgs. The screen intervals of these wells are located either fully within the shallow unit, partially within the shallow unit, or fully within the deep unit. All boreholes were drilled with a 12-inch hollow-stem auger, and monitoring wells were constructed using a 4-inch diameter PVC casing with 10 feet of screen. The annuli around screen sections of all wells were packed with #1C Lonestar sand that has an assumed porosity of 27 percent.

Slug tests were performed in monitoring wells MW-1, MW-3S, MW-3D, MW-5, MW-6S, MW-6D, MW-8, MW-9S, and MW-11. Wells MW-3D, MW-6D, and MW-9D are completed in gravelly sand or sandy gravel. Well MW-6S is completed within sand, and well MW-8 in silty clay. The other wells (MW-1, MW-3S, MW-5, and MW-11) are completed in silty clay, silty sand, and/or sand. These nine wells were selected to provide testing of a wide range of aquifer materials encountered all over the site.

3.4.4 Slug Test Theory

A slug test is comprised of observing the response of the water level in a monitor well over time after an induced perturbation. This involves quickly raising or lowering the static water level in a monitor well and recording the subsequent falling or rising water levels over time. The water level in a well is quickly raised by inserting a solid slug below the water table. The subsequent falling of water

level versus time constitutes a falling-head slug test. Once the static conditions are achieved, the solid slug is quickly removed from the well. The subsequent rising of water level versus time constitutes a rising-head slug test.

The Bouwer and Rice analytical solution (Bouwer and Rice, 1976; Bouwer, 1989) was used to estimate hydraulic conductivity. The computer program AQTESOLV (Duffield, 1995) was used to perform the necessary calculations.

3.4.5 Slug Test Instrumentation and Procedures

An in situ Hermit 1000 data logger was used to record water level versus time during all slug tests. For all tests, the time was set to minutes and water level to feet of water. Prior to each test, the static water level and the well depth were measured using a water level probe, and the height of the static water column in the well was calculated. An in situ 30-psig pressure transducer was set approximately 2 feet above the well bottom and connected to the data logger. All recorded water levels were the difference between the static water level and the instantaneous water level at a specific time during the test. Once the data logger and transducer were ready for testing, a stainless steel slug about 4-feet long and 2 inches in diameter was quickly submerged below the static water level coincident with starting the data logger. After a few minutes, the static water level difference was manually read from the data logger and recorded in the fieldbook. The test was stopped when the water level difference approached zero, showed fluctuation, or had a very small decrease (<0.01 feet/2 minutes). Finally, the data logger was disconnected from the transducer and connected to a printer, and the results were printed.

3.4.6 Slug Test Results

The following basic data are needed to analyze a slug test:

- Casing radius, r_c
- Screen length (L)
- Wellbore radius, r_w
- Static height of water in well (H = well depth minus water level in well)
- Porosity of gravel pack around the casing screen (n)
- Saturated thickness of aquifer (b)

- Ratio of vertical to horizontal hydraulic conductivity (Kz/Kr), as determined by local hydrogeological conditions (for homogeneous and isotropic aquifer, Kz/Kr=1)
- Initial water level (Ho)

Table 17 summarizes these data for all the slug tests performed at the former Brickland Refinery site.

With these data, the computer program AQTESOLV was used to analyze the slug test data. During the analyses, the raw field data were imported into the program and the basic data were provided. A visual matching method was then used to locate the straight line section of the test data and calculate the hydraulic conductivity (Table 17). Finally, the plot of each test was printed (Appendix K).

Two distinct types of materials were slug tested at the site: relatively high conductivity materials (sand/silt/clay mixture) and relatively low conductivity materials (primarily tight clay/silt mixtures). For the former materials, the water level response in many instances comprised a rapid early-time filter pack response (most noticeable in rising head tests) followed by later time longer-duration aquifer-characteristic response. The more conductive wells tested did not produce this early time filter pack response because the filter pack K is similar to the aquifer K.

On the other hand, with increasingly lower aquifer K compared to filter pack K (as in the latter clayey materials), this initial rapid filter pack response becomes significantly more pronounced, and is nonlinear, and longer in duration. These early time nonlinear data are representative of the filter pack response but impeded due to the very low aquifer K. The data following this filter pack response become linear at long times, and represent the aquifer response. The pronounced early time filter pack response is due to the inability of the clayey materials to accept water quickly. Therefore, more time is required for wellbore water to reach a steady-state inflow rate into the aquifer.

An aquifer thickness was used in the analyses to take into consideration the partial penetration effect of wells. However, the results are not very sensitive to this additional parameter in the slug test analyses. As a result, quite a large range of aquifer thickness values may be used without influencing the final derived K values. Therefore, the method used to estimate aquifer K is of sufficient rigor since slug tests provide only approximate K aquifer values.

Table 17 shows that both falling- and rising-head test results for wells completed in the gravelly sand or sandy gravel formation (MW-3D, MW-6D, and MW-9S) have high conductivities (0.04-0.07 ft/min). The well completed fully in the silty clay formation (MW-8) has the lowest conductivity (0.00008 ft/min). Wells completed partially in silty clay or silty sand (MW-1, MW-3S, MW-5 and MW-11) have intermediate conductivities (0.0001-0.0015 ft/min). The only exception is well MW-6S, which was completed 100 percent in sand, but has a conductivity of 0.0009 ft/min. This is lower than the conductivity determined for MW-3S which is completed 10 percent in silty sand (0.0015 ft/min). The inconstancy, however, is relatively minor. It is possible that the sand grains at well MW-6S is finer than in the vicinity of MW-3S. Table 17 shows both falling- and rising-head tests in the same well yields similar conductivity values.

3.4.7 Summary

Slug tests were performed in nine monitoring wells at the former Brickland Refinery site. Results showed that wells completed partially in sandy gravel or gravelly sand (e.g., MW-3D, MW-6D, and MW-9S) have high conductivities (0.04-0.07 ft/min); wells completed partially in silty clay, silty sand, or in fine sand (e.g., MW-1, MW-3S, MW-5, MW-11, and MW-6S) have intermediate conductivities (0.0001-0.0015 ft/min); and the well completed fully in silty clay (e.g., MW-8) has the lowest conductivity (0.00008 ft/min). These results indicate the conductivities determined by the slug tests are consistent with the hydrogeological settings.

3.5 Transport Modeling

3.5.1 Introduction

The concentration of benzene in the Rio Grande downstream of the site was determined using a two-step process. First, the benzene concentration in shallow groundwater that enters the river was determined. Second, shallow groundwater that enters the river was assumed to mix with upstream river water to determine a final downstream benzene concentration in the river. Because the amount of water flowing in the river affects the final downstream benzene concentration, high, low, and average flow conditions were used to estimate a range and an average for the final downstream benzene concentration in the river.

The benzene concentration entering the river was determined for the following current and future source conditions:

Current Source Conditions: For current source conditions, the benzene concentration observed in MW-06S, located adjacent to the river, is assumed to be the concentration in groundwater that enters the river.

Future Source Conditions: Future source conditions assume no remediation occurs, and that benzene enters the shallow groundwater in either of two scenarios. Representing a *worst case* scenario, the observed benzene concentrations in the free-phase hydrocarbons of MW-10, are assumed to represent the benzene concentration in groundwater that enters the river.

Representing a *realistic scenario*, the highest observed benzene concentrations in groundwater, primarily in the western portion of the site, are assumed to remain as a continuous source for the next 30 years. The concentration of benzene in groundwater that enters the river is calculated using an analytical model.

3.5.2 Conceptual Site Hydrogeologic Model

Prior to evaluating these scenarios, a conceptual site hydrogeologic model was formulated. A conceptual model is a simplified "picture" of the hydrogeology of a site using average values, or a range of values, for aquifer properties such as hydraulic conductivity, porosity, aquifer thickness, and hydraulic gradient. Also, the portion of aquifer through which impacted groundwater flows is quantified.

Based on the last four quarters of water level elevations, groundwater flows to the southeast under an average hydraulic gradient of about 0.0010 feet/foot (ft/ft). Groundwater is assumed to flow horizontally within the shallow aquifer. Since the shallow materials are interbedded clays, silts, and sands in this region, groundwater is observed to occur under confined to unconfined conditions.

Based on the results of slug tests performed in both shallow and deep monitor wells at the site (presented in Appendix K) the average hydraulic conductivity of the upper aquifer material is about 14 feet per day (ft/day). For clayey to sandy materials, this is a reasonable value. An average effective porosity of 25 percent is assumed to be representative of such materials.

Hydrocarbons occur primarily within the upper, fine-grained materials, with concentrations greatest in the shallow monitor wells completed within the upper 15 feet of the aquifer. Hydrocarbons are not detected in deep monitor wells screened within the upper 15 to 35 feet of the aquifer. Consequently, hydrocarbons are assumed to occur within the upper 15 feet of the aquifer.

The following hydrogeologic model was used as a basis for evaluating the various aquifer-to-river pathway scenarios:

- Groundwater beneath the site flows to the southeast toward the Rio Grande under confined to unconfined conditions with a hydraulic gradient of 0.001 ft/ft at a velocity of about 20 feet per year. Dissolved-phase hydrocarbons occur within the upper 15 feet of the aquifer and migrate at the velocity of groundwater.

3.5.3 Current Source Conditions

The current source conditions scenario assumes that the current benzene concentration in MW-6S (220 ppb, June 1995) is the concentration in groundwater that enters the river. An assumed "worst case" lenght of groundwater containing benzene that potentially impacts the river bank is approximately 450 feet long. This recharge section is centered at MW-6S and lies between MW-08 and MW-09.

To estimate a range of downstream benzene concentrations in the river, the mixing cell equations shown on Figure 16 were used. A groundwater flow rate (Q) of 0.0011 cubic feet per second (cfs) was calculated using the mixing cell equation No. 2 (Q = KiA) and the following parameters:

- Hydraulic conductivity (K) = 14 ft/day
- Hydraulic gradient (i) = 0.001 ft/ft
- Groundwater flow area (A) = 15 feet deep by 450 feet wide

The hydraulic conductivity and hydraulic gradient values discussed in the previous section were used to calculate the groundwater flow rate. The depth of 15 feet for the groundwater flow area corresponds to the upper 15 feet of the water table where hydrocarbons are detected. The width of 450 feet for the groundwater flow area is a "worst case" assumption of the length of potential impact to the river bank based on the current benzene concentration map. The downstream benzene concentrations for high, low and average river flow conditions, are calculated using the mixing cell equation No. 1 with the following parameters:

- Groundwater concentration (C_a) = 220 ppb
- Groundwater flow rate (Q_a) = 0.0011 cfs
- High upstream river flow rate (Q_r) = 2,400 cfs
- Low upstream river flow rate (Q_r) = 68 cfs
- Average upstream river flow rate (Q_r) = 630 cfs

The high, low, and average upstream river flow rates are based on the maximum, minimum, and average streamflow rates for 20 years of record (1975 through 1995) at the Courchesne Bridge gaging station located approximately 2,000 feet upstream of the site (IBWC, 1996).

Assuming complete mixing, the calculated downstream benzene concentrations in the river for high, low and average river flow conditions are 0.0001, 0.0036 and 0.0004 ppb, respectively. These values are several orders of magnitude below the state of New Mexico Drinking Water Standard of 5 ppb.

3.5.4 Future Source Conditions - Realistic Case Scenario

The realistic case scenario for future source conditions assumes that the highest benzene concentrations observed in monitor wells MW-4, MW-5, MW-8, and MW-14 represent continuous benzene sources for groundwater. Groundwater concentrations are then predicted 30 years into the future. The resulting benzene concentration in groundwater that enters the river is used in the mixing equation to estimate the downstream benzene concentrations in the river at high, low and average flow conditions.

Based on the conceptual model for the site, a simple two-dimensional analytical solution to the problem of continuous sources injected into a relatively thin aquifer can be used. The analytical solution can be determined by the computer program PLUME2D (Beljin, 1989).

Input requirements for the program include source injection rates, groundwater flow velocity, lateral and longitudinal dispersivity, aquifer thickness, and porosity. For this scenario, the following input parameters were used:

Parameter	Value	Units	Reference
Injection rates	MW-4: .002	lbs/d	calculation
	MW-5: .009	lbs/d	calculation
	MW-8: .017	lbs/d	calculation
	MW-14: .025	lbs/d	calculation
Porosity	25	percent	assumption (McWhorter/Sunada, 1977)
Groundwater Velocity	0.055	ft/d	calculation
Aquifer Thickness	15	feet	observation
Duration	30	years	assumption
Longitudinal Dispersivity	100	feet	assumption (Neuman, 1990)
Transverse Dispersivity	10	feet	assumption (Neuman, 1990)
Retardation Factor	1	-	assumption
Decay	0	-	assumption

The injection rates were selected so that the observed benzene concentration at each well was recreated in the model. Retardation and decay are assumed negligible and are not used in the model. Therefore the model is conservative with respect to the final concentrations in groundwater that enter the river. Copies of the model input and output are included in Appendix L.

Based on the modeling results, an assumed "worst case" total benzene concentration in groundwater that enters the river bank equals 31,780 ppb (the individual model cell concentrations range from 30 ppb to 4,700 ppb) and an assumed "worst case" length of groundwater containing benzene that potentially impacts the river bank is 850 feet long.

To estimate a range of downstream benzene concentrations in the river, the mixing cell equations shown on Figure 16 are used. A groundwater flow rate (Q) of 0.0021 cfs is calculated using the mixing cell equation No. 2 (Q = KiA) and the following parameters:

- Hydraulic conductivity (K) = 14 ft/day
- Hydraulic gradient (i) = 0.001 ft/ft
- Groundwater flow area (A) = 15 feet deep by 850 feet wide

The hydraulic conductivity and hydraulic gradient values discussed in Section 3.5.2 were used to calculate the groundwater flow rate. The depth of 15 feet for the groundwater flow area corresponds to the upper 15 feet of the water table where hydrocarbons are detected. The width of 850 feet for the groundwater flow area is a "worst case" assumption of the length of potential impact to the river bank, which is based on the modeling results.

The downstream benzene concentrations, for high, low and average river flow conditions, are calculated using the mixing cell equation No. 1 with the following parameters:

- Groundwater concentration (C_a) = 31,780 ppb
- Groundwater flow rate (Q_a) = 0.0021 cfs
- High upstream river flow rate (Q_r) = 2,400 cfs
- Low upstream river flow rate (Q_r) = 68 cfs
- Average upstream river flow rate (Q_r) = 630 cfs

Using the high, low and average river flow rates, the downstream benzene concentrations in the river are 0.028, 0.981 and 0.106 ppb. These calculated downstream benzene concentrations are at least one order of magnitude below the state of New Mexico Drinking Water Standard of 5 ppb.

3.5.5 Future Source Conditions - Worst Case Scenario

The worst case scenario for future source conditions assumes that the free phase hydrocarbons observed in monitor wells in the southern portion of the site supply benzene directly to the river. The free-phase hydrocarbons in MW-10 was analyzed for BTEX compounds in August 1995. Benzene was not detected above the detection limits of 125,000 µg/kg (125,000 ppb). Therefore, the benzene concentration of 125,000 ppb in MW-10 is assumed to be the "worst possible" concentration in groundwater that enters the river.

The same approach used in the current source conditions scenario is used for this scenario, except that the value used for the benzene concentration is 125,000 ppb. The final downstream benzene concentration in the river are 0.057, 2.02 and 0.218

ppb at high, low and average river flow conditions, respectively. Even in the worst case scenario under low flow river conditions, the downstream benzene concentration in the river is below the state of New Mexico Drinking Water Standard of 5 ppb. The input parameters and calculated downstream benzene concentrations for the current and future source conditions are summarized in Table 18.

3.6 Surface Water

Chemical analyses of on-site soils document concentrations of metals and petroleum hydrocarbons in concentrations that exceed the recommended human health-based limits. Although New Mexico does not have specific standards for soils, EPA has published guidelines for screening lead in soil for residential load use. Based upon these criteria, on-site soils represent a potential threat to human health and the environment.

Because the site is secured by locked fences, the threat to human health and the environment from ingestion or dermal contact of site soils is extremely limited. The inhalation pathway is also limited because the impacted soil often is mixed with petroleum hydrocarbons, creating a surface that minimizes the formation of dust. Our study has concluded that stormwater runoff and groundwater flow from this site are the most likely routes of impact to the environment. Evaluation of the groundwater pathway is discussed in Sections 3.3, 3.5, and 3.6 of this report. Further evaluation of the surface water pathway is presented below.

The flow of surface water onto the site from upslope drainages is essentially uncontrolled. Cultural features such as the railroad and county road create a modification of natural flowpaths, but do not effectively divert flow toward or away from the site. Historically, flow from the site was controlled by four culverts to the Rio Grande. The northernmost culvert, Cul-4, is located just north of Area A. Cul-3 and Cul-2 are both in Area F, and Cul-1 drains Area G. Figure 18 shows the location of these culverts, the areas where impacts to soils are documented and our estimate of the drainage basins' boundaries at the site.

Table 19 presents off-site soils data obtained from the culverts and "background" locations up and downgradient of the site. Two soil samples were taken from Cul-3 and one from Cul-4. There is no record of any culvert samples from Cul-1 or Cul-2, nor are hydrocarbon analyses from these locations found in existing documents. Upgradient background samples are BG-2, MW-12, and NMEID.

4.0 Conclusions

This site characterization at the Brickland Refinery site has determined the current extent and nature of hydrocarbon releases that occurred from approximately 1931 to 1959 and the metals concentrations that may be due to a combination of site activities and off-site metals refining operations. Constituents of concern have been confined to the site with the exception of low concentrations of BTEX in groundwater at MW-6S. The results of soil and groundwater sampling demonstrate that hydrocarbon releases from this site have not impacted water quality in the Rio Grande. Furthermore, contaminant transport modeling demonstrates that on-site hydrocarbon releases will not impact the Rio Grande in the future. The impact of periodic discharges of constituents of concern to the Rio Grande via a stormwater pathway has not been fully determined because there has not been enough runoff to accumulate water in the samplers placed in the culverts to provide a sample. However, this will not pose a problem as long as stormwater is contained on site.

Of the constituents of concern that have been detected to date, the following presented the greatest concerns and were critically examined in subsequent evaluations. GCL has critically evaluated the following constituents of concern that were detected on site:

Soil

- TPH is not regulated specifically, and the regulated constituents of TPH are addressed on a compound-specific basis.
- BTEX has been detected to varying degrees in soils.
- Soil samples collected at the site were analyzed for arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Measured concentrations of arsenic, barium, chromium, and lead are above background ranges. However, TCLP testing and groundwater monitoring data demonstrate these elements have limited leaching potential and are highly unlikely to migrate to groundwater.
- The slight increase in background concentrations of some of the metals from the north to south of the site is probably due to the proximity of the Asarco smelter to the southern end of the site.

- In general, lead and arsenic concentrations detected at the Brickland Refinery site are believed to have resulted at least in part from smelter operations.

- PAHs and phenols have been detected in soils at the site. None have been detected in off-site monitoring wells since the quarterly sampling program was initiated in December 1993.

- Hydrocarbon releases in on-site soils and groundwater are restricted to the southern two-thirds of the facility.

- Site security effectively breaks the pathway between the constituents of concern and receptors.

Groundwater

- Hydrocarbons have been observed off site only in MW-6S. However, the absence of hydrocarbon constituents in all other off-site wells and river samples, with the exception of a single sample of total xylenes at the detection limit, indicate on-site hydrocarbon compound migration is attenuated on site by the interbedded silty/clayey sediments, the relatively flat, shallow water table, and/or natural biodegradation/dispersion. The minor amount of hydrocarbon migration that occurs is attenuated by biodegradation and dispersion.

- Benzene has been detected in groundwater at concentrations greater than health-based standards at only one off-site location (MW-6S). The other BTEX compounds have either not been detected or have been below WQCC standards in off-site monitoring wells.

- Free-phase hydrocarbon has been observed in monitoring well MW-10 and several well points in the immediate vicinity. The recent investigation determined that this free-phase hydrocarbon occurs locally in discontinuous pockets associated with thin, discontinuous, sand lenses. No free-phase hydrocarbons have been observed in off-site wells.

- PAHs and phenols have been detected in the shallow aquifer at the site. None have been detected in off-site monitoring wells since the quarterly sampling program was initiated in December 1993.

- Intrinsic remediation of the constituents of concern and current land use effectively breaks the pathway between the constituents of concern and receptors.

Surface Water

- No BTEX compounds have been detected in water samples collected from the Rio Grande at locations upgradient and downgradient from the site. Furthermore contaminant transport modeling has shown no significant risk of benzene entering the Rio Grande in the future.

- A monitoring program is required to determine if the surface water route completes a pathway between on-site constituents of concern and receptors.

- The gates to the three southernmost culverts are closed. There is no runoff in this area.

5.0 References

Agency for Toxic Substances and Disease Registry (ATSDR). Specific volumes for each substance.

American Petroleum Institute Risk/Exposure Assessment Decision Support System (DSS). Developed by the American Petroleum Institute and prepared under contract by DuPont Environmental Remediation Services Woodward-Clyde Consultants (Version 1.0, May 1994).

Beljin, M.S., 1989. Solute, Analytical Solute Transport Models, IGWMC, Indianapolis, Indiana.

Book I; Scientific and Technical Standards for Hazardous Waste Sites, Volume I: Site Characterization; Chapter 2 (Standards for Data Validation). California Department of Health Services, Toxics Substance Control Program, August 1990.

Burmaster and K.E. von Stackerberg. Using Monte Carlo Simulation in Public Health Risk Assessments: Estimating and Presenting Full Distribution of Risk. Journal of Exposure Analysis and Environmental Epidemiology, Volume 1, No. 4 (1991).

Calabrese and P.T. Kostecki. Petroleum contaminated Soils, Volume 2. Lewis Publishers, Chelsea, Michigan (1989).

Cowherd, G.E. Muleski, P.J. Englehart, and D.A. Gillette. Rapid Assessment of Exposure to Particulate Emissions from Surface Contamination Sites. EPA/600/8-85-002: PB85-192219 (1985).

Daugherty, S.J. Regulatory Approaches to Hydrocarbon Contaminants from Underground Storage Tanks, Hydrocarbon Contaminated Soils and Groundwater, Chapter 2. Editors: Kostechi, P.J. and Calbrese, E.J. Lew Publications, Ann Arbor, Michigan, 1991.

Dragun. The Soil Chemistry of Hazardous Materials. Hazardous Materials Control Research Institute, Silver Spring Maryland (1988).

Eder Associates Consulting Engineers, P.C., 1990. Phase I Site Investigation, Field Investigation Report for Old Brickland Refinery Site, Sunland Park, New Mexico (draft).

EPA Dermal Exposure Assessment: Principles and Applications. EPA/600/8-91/011B (1992).

EPA Exposure Factors Handbook. EPA/600/8-89/043 (1989).

EPA Guidance for Data and Usability in Risk Assessment (Part A). Publication 9285.7-09A, PB92-963356 (1992).

EPA Guidance for Data and Usability in Risk Assessment (Part B). Publication 9285.7-09B, PB92-963362 (1992).

EPA Guidance for Data Usability in Risk Assessment. EPA/540/G-90/008 (1990).

EPA Guidelines for Carcinogenic Risk Assessment. Federal Register, Volume 51:33992-34003 (1986).

EPA Guidelines for Exposure Assessment; Notice. Federal Register, Volume 57, No. 104 (May 29, 1992).

EPA Health Effects Assessment Summary Tables, Annual Update. OHEA ECAO-CIN-821 (1992).

EPA Integrated Risk Information System (IRIS). Specific computer printouts for each substance.

EPA Risk Assessment Guidance for Superfund: Volume I, Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals). Publication 9285.7-01B (1991).

EPA Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual, Supplemental Guidance, "Standard Default Exposure Factors". OSWER Directive: 9285.6-03 (1991).

EPA Superfund Public Health Evaluation Manual. Office of Solid Waste and Emergency Response, EPA/540/1-86/060 (1986).

EPA Superfund Exposure Assessment Manual. EPA/540/1-88/001 (1988).

Farino, P. Spawn, M. Jasinsky, and B. Murphy. Evaluation and Selection of Models for Estimating Air Emissions from Hazardous Waste Treatment and Disposal Facilities. EPA (1983).

GCL, 1994, Remedial Investigation Report for the Former Brickland Refinery, Document No. REX89.DOC.

Gherini, K.V. Summers, R.K. Munson, and W.B. Mills. Chemical Data for Predicting the Fate of Organic Compounds In Water, Volume 1: Technical Basis. Electric Power Research Institute, EA-5818 (1989).

Gherini, K.V. Summers, R.K. Munson, and W.B. Mills. Chemical Data for Predicting the Fate of Organic Compounds In Water, Volume 2: Database. Electric Power Research Institute, EA-5818 (1988).

Gilbert, R.O. Statistical Methods for Environmental Pollution Monitoring, Van Moystrand Reinhold, New York (1987). ISBN 0-442-23050-8.

Gosselin, R.P. Smith, H.C. Hodge, and J.E. Braddock. Clinical Toxicology of Commercial Product, 5th edition, Williams & Wilkins, Baltimore (1981).

Howard. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume 1. Lewis Publishers, Chelsea, Michigan (1989).

Howard. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume 2. Lewis Publishers, Chelsea, Michigan (1990).

Hubbard. Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure. direct Communication, California Water control Resources Board (1992).

International Boundary Water Commission (IBWC). April 17, 1996 and May 8, 1996. Personal communication via telephone and mail between Jim Robinson (IBWC) and Natalyn Ala (GCL).

Lovejoy, Earl M.P., 1976. Geology of Cerro de Cristo Rey Uplift, Chihuahua and New Mexico, New Mexico Bureau of Mines & Minerals Resources, Memoir 31.

Lyman, W.F. Reehl, and D.H. Rosenblatt. Handbook of Chemical Property Estimation Methods, Environmental Behavior of Organic Compounds. American Chemical Society, Washington, District of Columbia (1990).

McWhorter and Sunada, 1977. Groundwater Hydrology and Hydraulics.

Neuman, S.P., 1990. Universal Scaling of Hydraulic Conductivities and Dispersivities in Geologic Media, Journal of Water Resources, V26, No. 8.

New Mexico Environmental Improvement Division, 1989. Screening Site Inspection of El Paso Products (EPA ID NMD980522757, TDD #F-6-8205-43).

Paustenbach, D.M. Meyer, P.J. Sheehan, and V. Lau. An Assessment and Quantitative Uncertainty Analysis of the Health Risks to Workers Exposed to Chromium Contaminated Soils. Toxicology and Industrial Health, Volume 7, No. 3 (1991).

Phillips, S.N. Hamlin, and E.B. Yates. Geohydrology, Water Quality, and Estimation of Ground-Water Recharge in San Francisco, California, 1987-1992. U.S. Geological Survey and the San Francisco Water Department, Water-Resources Investigations Report 93-4019, Sacramento, California (1993).

Sax and R.J. Lewis, Jr. Dangerous Properties of Industrial Materials. Van Nostrand Reinhold, 7th edition, New York, Volumes 1-3 (1989).

Shen. Estimating Hazardous Air Emissions from disposal Sites. Pollution Engineering, Volume 13, No. 8 (1981).

U.S. Geological Survey, 1991. Simulation of Groundwater Flow in the Mesilla Basin, Dona Ana County, New Mexico, and El Paso County, Texas, Water-Resources Investigations Report 91-4155.

Wixson and B.E. Davies. Guidelines for Lead in Soil. Environmental Science and Technology, Volume 28, No. 1 (1994).

Table 1

Monitoring Well and Well Point Elevation Data

(feet amsl)

Well ID	Ground Surface	Top of Casing	Top of Screen	Bottom of Screen
Monitor Wells:				
MW-1	3728.87	3730.57	3723.92	3712.17
MW-2	NA	3730.49	NA	NA
MW-3S	3727.81	3730.00	3723.50	3711.43
MW-3D	3727.93	3730.00	3707.00	3695.10
MW-4	3727.50	3728.86	3722.76	3711.76
MW-5	3728.29	3729.70	3725.20	3714.20
MW-6S	3728.46	3730.65	3724.05	3713.05
MW-6D	3728.59	3730.62	3703.12	3690.12
MW-7	3727.75	3728.96	3723.16	3711.50
MW-8	3727.72	3729.22	3724.52	3713.48
MW-9S	3728.24	3730.01	3724.31	3713.31
MW-9D	3728.59	3730.08	NA	NA
MW-10	3731.12	3732.54	3723.54	3712.54
MW-11	3729.84	3731.40	3721.60	3709.10
MW-12	3728.88	3730.35	3713.45	3701.45
MW-13	3729.53	3732.36	NA	NA
MW-14	3727.91	3730.46	3725.46	3709.86
MW-15	NA	3738.62	3724.92	3708.92
MW-16	3734.35	3736.78	3726.78	3710.78
MW-17	3731.98	3731.98	3726.58	3711.88
Well Points:				
WP-1	3730.15	3733.40	3726.99	3721.39
WP-2	3730.40	3731.65	3718.64	3713.04
WP-3	3728.50	3731.17	3726.77	3720.57
WP-4	3727.74	3731.85	3726.84	3721.14
WP-5	3727.58	3731.99	3726.92	3721.22
WP-6	3728.35	3731.70	3727.26	3721.56
WP-7	3730.70	3733.12	3720.71	3715.01
WP-8	3727.00	3729.67	3726.77	3722.07
WP-9	3727.24	3730.89	3725.87	3721.07
WP-10	3727.30	3731.37	3726.51	3722.81
WP-11	3727.49	3731.50	3726.61	3722.91
WP-12	3727.40	3731.35	3726.59	3722.89

Table 1 (Cont'd)

Monitoring Well and Well Point Elevation Data

(feet amsl)

Well ID	Ground Surface	Top of Casing	Top of Screen	Bottom of Screen
Well Points (Cont'd):				
WP-13	3726.72	3730.82	3725.39	3721.69
WP-14	3727.38	3730.50	3726.42	3722.72
WP-15	3729.57	3732.97	3726.31	3722.61
WP-16	3728.60	3730.25	3726.20	3722.50
WP-17	3727.93	3731.28	3726.21	3722.51
WP-18	3727.34	3728.56	3718.34	3714.64
WP-19	3728.29	3729.65	3724.59	3720.87
WP-20	3727.60	3731.46	3726.57	3722.87
WP-21	3727.38	3730.38	3725.90	3722.20
WP-22	3727.50	3728.85	3718.70	3715.00
WP-23	3728.00	3729.11	3724.03	3720.33
WP-24	3727.40	3731.75	3726.77	3721.07
WP-25	3730.48	3733.54	3721.69	3715.99
WP-26S	3730.40	3732.44	3727.15	3721.65
WP-26D	3730.30	3733.28	3717.90	3714.40
WP-27S	3732.77	3736.82	3726.47	3720.97
WP-27D	3732.77	3736.86	3725.46	3721.96
WP-28	3727.39	3731.62	3726.39	3722.79
WP-29	3726.97	3731.19	3725.97	3722.37
WP-30	3729.60	3733.41	3725.20	3719.50
WP-31	3734.47	3737.21	3726.57	3720.97
WP-32	3735.30	3736.80	3726.30	3722.70
WP-33	3729.00	3732.74	3722.65	3716.95
WP-34	3727.20	3731.53	3726.34	3720.74
WP-35	3727.08	3728.71	3723.64	3720.04
WP-36	3726.87	3729.52	3724.50	3720.90
WP-37	3727.70	3730.13	3725.05	3721.45

Notes:

NA = Data not available.

amsl = Above mean sea level.

Table 2
Water Level Elevations in Monitoring Wells

(feet amsl)

Well ID	Jul. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Jun. 95	Sept. 95
MW-1	3725.78	3724.30	3725.27	3726.54	3725.37	3724.35	NM	3726.66	NM
MW-2	NM	NM	3726.39	3726.54	3725.89	3723.97	NM	3726.81	NM
MW-3S	3725.29	3723.27	3725.20	3725.87	3724.50	3723.44	3725.35	3725.68	3724.98
MW-3D	3725.22	3723.30	3725.10	3725.78	3724.42	3723.35	3725.26	3725.75	3724.97
MW-4	3725.21	3723.59	3725.36	3725.56	3724.68	3723.64	3725.56	3725.66	3725.40
MW-5	3725.11	3723.59	3725.30	3725.88	3724.70	3723.65	3725.40	3725.86	3725.39
MW-6S	3725.08	3723.78	3724.85	3725.55	3724.20	3723.03	3725.05	3725.53	3724.63
MW-6D	3725.00	3723.75	3724.82	3725.57	3724.22	3723.00	3725.02	3725.48	3724.57
MW-7	3725.16	3723.72	3725.16	3725.89	3724.46	3723.16	3725.36	3725.32	3725.23
MW-8	3725.10	3723.42	3725.12	3725.77	3724.49	3723.45	3725.42	3725.74	3724.33
MW-9S	3724.84	3723.52	3724.56	3725.29	3723.91	3722.81	3724.81	3725.21	3725.52
MW-10	P	P	P	P	P	P	P	P	NM
MW-11	3724.91	3722.90	3725.10	3725.75	P	3723.40	3725.35	3725.86	3724.98
MW-12	3726.09	3724.91	3726.45	3727.05	3725.70	3723.65	NM	3727.15	3726.39
MW-13	3725.22	NM	NM	3725.82	3724.71	3724.44	NM	3726.05	NM
MW-14	-	-	NM	3726.03	3724.61	3723.58	3725.56	3726.01	3725.31
MW-15	-	-	NM	3725.62	3724.28	3723.19	3724.97	3725.58	3724.87
MW-16	-	-	NM	3725.43	3724.06	3722.93	3724.88	3725.44	3724.54
MW-17	-	-	NM	3725.90	3724.46	3723.36	3725.38	3726.82	3726.05

Notes:

NM = Not measured.
amsl = Above mean sea level.
P = Product observed.
- = Well was not yet drilled.

Table 3

Background Concentrations of Metals in Soil

Sample Location	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
BG-1 (GCL 1996)	42	102	9.2	11	292	0.12	ND	ND
BG-2 (GCL 1996)	14	102	1.8	8	103	ND	ND	ND
NMEID (Lab SLD)	NA	77	NA	9	150	ND	NA	ND
NMEID (Lab AT)	71	NA	4.2	3	182	0.05	NA	1.2
NMEID (Lab IT)	NA	NA	NA	4.3	160	NA	0.8	NA
USGS Western US	<.01 - 97	NR	NR	3 - 2000	<10 - 700	<.01 - 4.6	NR	NR
Eder	<1.4	NA	0.9 - 5.5	7.5 - 23	6 - 270	<0.02 - 0.11	<1.3	<0.25 - 1.2

All Units are mg/Kg
NA = Not Analyzed
NR = Not Recorded
ND = Not Detected
N = Matrix spike out of acceptable range
* = Digested duplicate out of 20% RPD (relative percent difference)
S = Performed by method of standard additons (MSA)
NMEID background data from **NMEID Listing Site Inspection, January 16, 1990.**
USGS Western US background data from **Shaklette, H.T. et. al, 1971**

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 4a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES
AREA A - UNITS (UG/KG)

Compound	A-TP-65
Benzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	500
Non-Target Total BTEX Compounds	500
Total	51,000

NOTES:

ND - Not Detected
J - Estimated concentration
B - Detected in associated lab blank

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 4b

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "A"

Parameter	A-TP-63	A-TP-64	A-TP-65	A-TP-87	A-TP-88	A-TP-89	A-TP-90	A-HA-5
Mercury	NA	NA	0.06UN	NA	NA	NA	NA	NA
Silver	NA	NA	0.6U	NA	NA	NA	NA	NA
Cadmium	NA	NA	2.9	NA	NA	NA	NA	NA
Chromium	NA	NA	13.5	NA	NA	NA	NA	NA
Copper	169N	151N	112N	96.9N	74.5N	58.3N	107N	5.9N
Nickel	NA	NA	10.2	NA	NA	NA	NA	NA
Zinc	NA	NA	101	NA	NA	NA	NA	NA
Arsenic	NA	NA	19.8*NS	NA	NA	NA	NA	NA
Lead	284	270	139	NA	NA	NA	NA	15.4

NOTES:

NA - Not analyzed
U - Undetected at <Instrument Detection Limit (IDL)
W - Analytical spike recovery out of range
B - Undetected, <Contract Required Quantification Limit (CRQL) but > Instrument Detection Limit (IDL)
E - Matrix interference
N - Matrix spike out of acceptable range
S - Performed by Method of Standard Additions (MSA)
+ - MSA correlation coefficient <.995
* - Digested duplicate out of 20% Relative Percent Difference (RPD)
Units - (mg/kg) for all analytes

Range of site background metals levels (mg/kg)

Mercury	<0.02-0.11
Silver	<0.25-1.2
Cadmium	0.9-5.5
Chromium	7.5-23
Copper	6-140
Nickel	5-10
Zinc	21-180
Arsenic	<1.4
Lead	6-270

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 5a

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "B"

Parameter	B-TP-83	B-TP-84	B-TP-85	B-TP-86	B-HA-1	B-HA-2	B-HA-2	B-HA-4
Mercury	NA	NA	NA	NA	NA	NA	NA	0.41N
Silver	NA	NA	NA	NA	1.4	177	1.8	4.9
Cadmium	NA	NA	NA	NA	NA	NA	NA	4.7*N
Chromium	NA	NA	NA	NA	NA	NA	NA	860
Copper	NA	NA	NA	NA	390*N	35.5*N	37.2*N	1370*N
Nickel	NA	NA	NA	NA	NA	NA	NA	5.4
Zinc	NA	NA	NA	NA	251N	32.3N	30.9N	178N
Arsenic	NA	NA	NA	NA	NA	NA	NA	5.98*NS
Lead	NA	NA	NA	NA	427N	60N	77N	2530N

NOTES:

NA - Not analyzed
U - Undetected at <IDL
W - Analytical spike recovery out of range
B - Undetected, <CRQL but >IDL
E - Matrix interference
N - Matrix spike out of acceptable range
S - Performed by MSA
\+ - MSA correlation coefficient <.995
* - Digested duplicate out of 20% RPD
Units - (mg/kg) for all analytes

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 6a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES
AREA C - UNITS (UG/KG)

Compound	C-TP-1-2	C-TP-2-2	C-TP-4
Benzene	ND	ND	14,700
Ethylbenzene	ND	ND	75,500
Toluene	ND	ND	ND
Xylenes	ND	ND	125,800
Non-Target Total BTEX Compounds	ND	ND	216,000
Total	ND	ND	410,900

NOTES:

ND - Not detected
J - Estimated concentration
B - Detected in associated lab blank

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 6b

SEMIVOLATILE ORGANICS IN SOIL SAMPLES - AREA "C"
(ug/kg)

SEMIVOLATILE ORGANICS	C-TP-8-S	C-TP-1-2 (1)	C-TP-2-2
TARGET COMPOUNDS			
Naphthalene	2900	87 J (3)	ND
2-Methylnaphthalene	25300	48 J	ND
Phenanthrene	19800	81 J	ND
Anthracene	6100	ND	ND
Dibenzofuran	5200	45 J	ND
Fluorene	6700	87 J	ND
2,4-Dinitrotoluene	11200	ND	ND
Pyrene	18800	ND	ND
4-Nitrophenol	ND (2)	ND	ND
Acenaphthene	3200	34 J	ND
Chrysene	5500	ND	ND
Benzo(a)anthracene	4400	ND	ND
Acenaphthylene	ND	ND	ND
4-Chloroaniline	1400	ND	ND
O-Nitrotoluene	ND	ND	ND
M-Nitrotoluene	ND	ND	ND
Nitrobenzene	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Fluoranthene	2500	ND	ND
Benzo(a)pyrene	1600	ND	ND
2-Chloronaphthalene	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND
Isophorone	ND	ND	ND
4,6-Dinitro-2-methylphenol	1700	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Total	116300	382 J	ND
NON-TARGET COMPOUNDS			
Total	1117700	42380	12520

NOTES:

(1) - samples suffixed with "-2" collected in July 1990.

(2) - not detected.

(3) - value is estimated because compound is present < CRQL.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 6c

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "C"

Parameter	C-TP-1	C-TP-2	C-TP-3	C-TP-4	C-TP-5	C-TP-6	C-TP-7	C-TP-8
Mercury	NA	NA	NA	NA	NA	NA	NA	0.06UN
Silver	NA	NA	NA	NA	NA	NA	NA	2.9
Cadmium	2.0	1.3	9.0	0.6	16.5	3.7	19.0	0.2B
Chromium	NA	NA	NA	NA	NA	NA	NA	7.5
Copper	25.5	28.0	184	21.3	280	142	197	4.8
Nickel	NA	NA	NA	NA	NA	NA	NA	10.2
Zinc	51.9	39.8	159	65.4	367	120	221	17.1
Arsenic	19.7	14.7	43.3	25.8*N+	129	14.7	50.9	5.0B*N+
Lead	121	98.1	278	22.7	683	166	328	5.0

NOTES:

NA - Not analyzed
U - Undetected at <IDL
W - Analytical spike recovery out of range
B - Undetected, <CRQL but >IDL
E - Matrix interference
N - Matrix spike out of acceptable range
S - Performed by MSA
+ - MSA correlation coefficient <.995
* - Digested duplicate out of 20% RPD
Units - (mg/kg) for all analytes

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 7a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES - AREA "D"
(ug/kg)

COMPOUND	D-TP-3-2	D-TP-7-2	D-TP-51	D-TP-52	D-TP-53	D-TP-54
Benzene	900 JB	2000 B	2,300	5,100	13,700	17,900
Ethylbenzene	44,600	1,300	28,800	16,700	1,300	3,400
Toluene	ND	ND	ND	ND	ND	ND
Xylenes	9,200	ND	25,000	ND	ND	3,000
Total BTEX	54,700	3,300	56,100	21,800	15,000	24,300
NON-TARGET COMPOUNDS						
Total	44,500	15,900	282,200	205,100	338,600	278,000

NOTES:
ND - not detected in sample.
J - Estimated concentration.
B - Detected in associated lab blank.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 7b

SEMIVOLATILE ORGANICS IN SOIL SAMPLES - AREA "D"
(ug/kg)

SEMIVOLATILE ORGANICS	B-5	B-9	B-13	B-22	D-TP-51	D-TP-3-2 (1)	D-TP-7-2	MW-5-SS-04
TARGET COMPOUNDS								
Naphthalene	3000	1800	1270	13800	33000	16000 J (3)	21000	4300
2-Methylnaphthalene	8400	4200	2850	18500	96000	ND	91000	21600
Phenanthrene	200	1100	150	400	2000	2000 J	ND	ND
Anthracene	200	1100	150	400	2000	ND	ND	ND
Dibenzofuran	200	300	160	300	3300	3300 J	ND	ND
Fluorene	200	400	150	400	2200	ND	ND	ND
2,4-Dinitrotoluene	300	400	120	500	ND	ND	ND	ND
Pyrene	ND (2)	900	ND	200	ND	ND	ND	ND
4-Nitrophenol	200	500	100	200	ND	ND	ND	2500
Acenaphthene	ND	ND	50	ND	ND	ND	ND	ND
Chrysene	ND	400	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	400	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	100	ND	ND	ND	ND	ND	ND
4-Chloroaniline	400	100	ND	500	3400	ND	ND	ND
O-Nitrotoluene	600	ND	30	ND	ND	ND	ND	4100
M-Nitrotoluene	400	100	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	100	130	ND	4400	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	60	200	ND	ND	ND	ND
Fluoranthene	ND	100	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	600	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	2000	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	1980	ND	1300	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	60	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	100	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
Total	14100	12700	7260	35400	149600	21300 J	112000	32500
NON-TARGET COMPOUNDS								
Total	223000	72500	50280	228300	2275000	1211600	1707000	619100

NOTES:

(1) - samples suffixed with "-2" collected in July 1990.

(2) - not detected.

(3) - value is estimated because compound is present < CRQL.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 7c

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "D"

Parameter	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	44.4*N	13.8*N	4.6*N	8.7*N	0.2U*N	8.2*N	6.4*N	1.8U
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	951*N	422*N	79.6*N	202*N	1.28*N	251*N	72*N	68.8
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	887N	683N	68.3N	168N	11.1N	236N	97.9N	45.7
Arsenic	169	95.5	13.6	51.0	4.4	58.4	21.7	24.9*NS
Lead	1500N	913N	54.9N	287N	6.0N	65.9N	202N	62.2

Parameter	B-9	B-10	B-11	B-12	B-13	B-14	B-15	B-16
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.56U	6.3U	1.3B	0.7U	5.1U	0.6U	10.3	1.2
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2.1B	119	122	22.6	216	81.1	7.18	71.8
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	11.2B*NS	22.0	21.7	11.1	55.6	14.1*NS	10.3B*NS	13.8
Lead	5.9	201	190	34.8	516	100	134	132

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 8a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES - AREA "E"
(ug/kg)

COMPOUND	E-TP-4-2	E-TP-5-2	E-TP-6-2	E-TP-8-2	E-TP-20
Benzene	3,100	1,400	1,500 B	ND	19,600
Ethylbenzene	4,800	8,300	4,100	ND	33,600
Toluene	100	ND	ND	ND	ND
Xylenes	1,700	5,500	3,100	ND	ND
Total BTEX	9,700	15,200	8,700	ND	53,200
NON-TARGET COMPOUNDS					
Total	37,200	43,000	67,910	8,793	1,952,700

COMPOUND	E-TP-22	E-TP-27	E-TP-32
Benzene	15,700	11,900	36,800
Ethylbenzene	30,100	18,300	45,800
Toluene	ND	ND	13,400
Xylenes	119,900	15,200	196,000
Total BTEX	165,700	45,400	292,000
NON-TARGET COMPOUNDS			
Total	1,253,300	722,600	670,100

NOTES:
ND - not detected in sample.
J - Estimated concentration.
B - Detected in associated lab blank.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 8b

SEMIVOLATILE ORGANICS IN SOIL SAMPLES - AREA "E"
(ug/kg)

SEMIVOLATILE ORGANICS	E-TP-9	E-TP-15	E-TP-21	E-TP-22	E-TP-25	E-TP-29	E-TP-31	E-TP-4-2 (1)	E-TP-5-2	E-TP-6-2	E-TP-8-2
TARGET COMPOUNDS											
Naphthalene	5900	32000	46000	ND	13000	2000	3400	41000	ND	14000	8000
2-Methylnaphthalene	29500	154000	150000	22000	41000	19000	10200	153000	ND	54000	32000
Phenanthrene	9600	ND	3000	12000	5000	27000	ND	ND	ND	ND	ND
Anthracene	ND (2)	ND	3000	2000	1000	5000	ND	ND	ND	ND	ND
Dibenzofuran	2400	ND	2000	1000	4000	1000	300	ND	ND	ND	ND
Fluorene	3700	ND	3000	2000	3000	5000	200	ND	ND	ND	ND
2,4-Dinitrotoluene	2000	ND	3000	3000	7000	ND	500	ND	ND	ND	ND
Pyrene	3900	ND	ND	11000	2000	18000	ND	ND	ND	ND	ND
4-Nitrophenol	4500	ND	ND	ND	1000	ND	500	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	1000	1000	1000	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	4000	ND	1000	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	3000	ND	1000	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	1000	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	3100	8000	ND	ND	3000	ND	400	ND	ND	ND	ND
O-Nitrotoluene	2700	ND	ND	ND	ND	ND	900	ND	ND	ND	ND
M-Nitrotoluene	ND	4000	6000	ND	ND	ND	400	ND	ND	ND	ND
Nitrobenzene	ND	15000	11000	ND	1000	ND	900	ND	ND	ND	ND
N-Nitrosodiphenylamine	3800	ND	ND	ND	2000	4000	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	2000	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	1000	2000	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	3000	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	5000	ND	ND	ND	ND	4200	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	1000	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	1000	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total	73400	218000	227000	65000	85000	93000	21900	194000	ND	68000	40000
NON-TARGET COMPOUNDS											
Total	1016100	1375000	7592000	2293000	932000	962000	217700	2492000	17260	924000	1086000

NOTES:

(1) - samples suffixed with "-2" collected in July 1990.

(2) - not detected.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 8c

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "E"

Parameter	E-TP-9	E-TP-10	E-TP-11	E-TP-12	E-TP-13	E-TP-14	E-TP-15	E-TP-16
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	13.2	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	17.3	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	23.0*NS	33.8*NS	14.0	20.6*NS	10.6B*NW	5.6B*NW	7.7B*NW	9.6B*NS
Lead	NA	NA	NA	NA	NA	NA	NA	NA

Parameter	E-TP-17	E-TP-18	E-TP-19	E-TP-20	E-TP-21	E-TP-21	E-TP-22	E-TP-23
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	4.2	NA	NA	NA
Cadmium	NA	NA	NA	NA	0.2U	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA

Parameter	E-TP-25	E-TP-26	E-TP-27	E-TP-28	E-TP-29	E-TP-30	E-TP-31	E-TP-32
Mercury	0.15N	0.16N	0.76N	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	5.2	NA	NA	NA
Copper	39.1	218	26.9	141*N	53.9*N	71.5*N	9.6B*N	123*N
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	69.8	50.6	48.4	NA	NA	NA	NA	NA
Arsenic	9.0B*NS	33.2*NS	5.4B*N	NA	NA	NA	NA	NA
Lead	93.5	139000	71.5	160*	88.4*	184*	29.5*	686

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 9a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES - AREA "F"
(ug/kg)

COMPOUND	F-TP-9-2	F-TP-10-2	F-TP-34	F-TP-38	F-TP-42
Benzene	35,600	18,700	6,500	498,600	1,600
Ethylbenzene	111,400	92,700	18,100	3,800	5,600
Toluene	ND	ND	1,900	5,200	400
Xylenes	2,600	120,200	20,100	ND	7,000
Total BTEX	149,600	231,600	46,600	507,600	14,600
NON-TARGET COMPOUNDS					
Total	1,080,000	167,500	150,100	1,665,000	81,600

COMPOUND	F-TP-45	F-TP-48	F-TP-61	F-TP-91
Benzene	26,700	76,900	16,000	ND
Ethylbenzene	159,900	157,800	2,500	ND
Toluene	300	174,900	ND	ND
Xylenes	16,300	944,000	1,800	ND
Total BTEX	203,200	410,900	20,300	ND
NON-TARGET COMPOUNDS				
Total	260,700	5,438,600	416,300	ND

NOTES:
ND - Not detected in sample.
J - Estimated concentration.
B - Detected in associated lab blank.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 9b

SEMIVOLATILE ORGANICS IN SOIL SAMPLES - AREA "F"
(ug/kg)

SEMIVOLATILE ORGANICS	F-TP-39	F-TP-40	F-TP-48	F-TP-50	F-TP-58	F-TP-9-2 (1)	F-TP-10-2
TARGET COMPOUNDS							
Naphthalene	15800	17700	15700	6500	9100	1100	53900
2-Methylnaphthalene	113900	60400	27700	59600	17800	3600	73700
Phenanthrene	10000	1800	22000	10000	4700	140	ND
Anthracene	9900	1700	3400	1500	800	ND	ND
Dibenzofuran	6700	1100	ND	2400	1400	ND	ND
Fluorene	8000	1300	4100	4700	2100	120	ND
2,4-Dinitrotoluene	7800	1400	1800	3000	2500	ND	ND
Pyrene	1600	500	6400	2300	2800	ND	ND
4-Nitrophenol	4900	1200	ND	5200	400	ND	ND
Acenaphthene	4800	500	ND	3400	500	ND	ND
Chrysene	ND (2)	ND	ND	ND	500	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	500	ND	ND
Acenaphthylene	2300	500	ND	1500	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	500	ND	ND
O-Nitrotoluene	4100	ND	2000	ND	ND	ND	ND
M-Nitrotoluene	ND	2000	ND	ND	1000	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	800	5300	ND	2100	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	1900	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	600	ND	ND
Isophorone	ND	2600	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	600	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Total	189800	93500	90300	100100	47900	4960	127600
NON-TARGET COMPOUNDS							
Total	2669300	768400	730500	872000	542000	35870	2747400

NOTES:

(1) - samples suffixed with "-2" collected in July 1990.

(2) - not detected.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 9c

SELECTED METALS ANALYSIS
FROM UNIQUE SOIL SAMPLES IN AREA "F"

Parameter	F-TP-33	F-TP-34	F-TP-35	F-TP-36	F-TP-37	F-TP-38	F-TP-39	F-TP-40
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	13.2	NA
Copper	163°N	233°N	585°N	162°N	172°N	33.1°N	270°N	132°N
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	130	158	252	140	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Lead	180°	377000°	4860°	2470°	1090°	32.8°	890°	899°

Parameter	F-TP-41	F-TP-42	F-TP-43	F-TP-44	F-TP-45	F-TP-46	F-TP-47	F-TP-48
Mercury	0.06UN	1.9N	0.06UN	0.05UN	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	8.1	0.9B
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	45.4	34.3
Copper	310°N	247	174°N	9.2°N	61.5°N	72°N	647°N	422°N
Nickel	NA	NA	NA	NA	NA	NA	41.4	39.6
Zinc	NA	NA	NA	NA	376	115	1710	277
Arsenic	NA	NA	NA	NA	NA	NA	35.3	NA
Lead	1340	1400	764°	8.2°	268°	564°	628°	450°

Parameter	F-TP-49	F-TP-50	F-TP-55	F-TP-56	F-TP-57	F-TP-58	F-TP-59	F-TP-60
Mercury	NA	NA	NA	NA	NA	NA	0.26N	2.8N
Silver	6.1	7.5	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	25.4	17.4
Chromium	22.6	47.2	NA	NA	NA	NA	NA	NA
Copper	126°N	390°N	238N	763N	20.8N	153N	2230N	572N
Nickel	42.9	19.2	NA	NA	NA	NA	NA	NA
Zinc	845	525	NA	NA	NA	NA	2370	1380
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Lead	488°	676°	NA	NA	NA	NA	NA	NA

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 10a

VOLATILE ORGANIC COMPOUNDS IN SOIL SAMPLES - AREA "G"
(ug/kg)

COMPOUND	G-TP-11-2	G-TP-12-2	G-TP-13-2	G-TP-14-2	G-TP-15-2
Benzene	42	54,000	ND	ND	49
Ethylbenzene	316	79,000	ND	ND	63
Toluene	32	ND	ND	ND	ND
Xylenes	347	120,000	ND	ND	94
Total BTEX	737	253,000	ND	ND	206
NON-TARGET COMPOUNDS					
Total	14,700	167,500	ND	11,506	11,365

COMPOUND	G-TP-16-2	G-TP-68	G-TP-70	G-TP-77	G-TP-80
Benzene	34	200	1,900	500	ND
Ethylbenzene	140	ND	10,800	3,200	300
Toluene	ND	ND	8,900	200	ND
Xylenes	290	ND	21,000	8,000	700
Total BTEX	464	200	42,600	11,900	1,000
NON-TARGET COMPOUNDS					
Total	1,155	455,200	43,000	136,400	17,700

COMPOUND	H-TP-81
Benzene	7,500
Ethylbenzene	45,300
Toluene	16,000
Xylenes	77,600
Total BTEX	146,400
NON-TARGET COMPOUNDS	
Total	439,100

NOTES:
ND - Not detected in sample.
J - Estimated concentration.
B - Detected in associated lab blank.
H-TP-81 sample was collected in area "G", but noted as "H".

OLD BRICKLAND REFINERY SITE

SUNLAND PARK, NEW MEXICO

Table 10b

SEMIVOLATILE ORGANICS IN SOIL SAMPLES - AREA "G"

(ug/kg)

SEMIVOLATILE ORGANICS	G-TP-66	G-TP-68	G-TP-68-1 (5)	G-TP-80 (3)	G-TP-11-2 (1)	G-TP-12-2
TARGET COMPOUNDS						
Naphthalene	14000	4000	11000	ND	6500 J (3)	11140
2-Methylnaphthalene	40000	16400	41000	ND	19900 J	17800
Phenanthrene	12800	11800	8000	ND	11800	1170 J
Anthracene	2400	2000	1000	ND	3300 J	200 J
Dibenzofuran	3700	1000	4000	ND	ND	530 J
Fluorene	5800	3400	4000	ND	4700 J	600 J
2,4-Dinitrotoluene	ND (2)	5400	6000	ND	ND	ND
Pyrene	5200	6300	2000	ND	6400 J	430 J
4-Nitrophenol	600	1000	1000	ND	ND	ND
Acenaphthene	1700	1000	1000	ND	ND	ND
Chrysene	1100	1900	800	ND	ND	ND
Benzo(a)anthracene	900	1900	800	ND	ND	ND
Acenaphthylene	1000	400	ND	ND	ND	ND
4-Chloroaniline	800	ND	1000	ND	ND	ND
O-Nitrotoluene	ND	500	2000	ND	ND	ND
M-Nitrotoluene	1000	ND	4000	ND	ND	ND
Nitrobenzene	ND	1500	1000	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
Fluoranthene	600	700	ND	ND	ND	ND
Benzo(a)pyrene	ND	1200	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	800	1200	900	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	500	5700	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	500	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	2200	6000	ND	ND	ND
Total	92900	70000	95500	ND	52600	31870
NON-TARGET COMPOUNDS						
Total	953300	1305000	1286900	792000	1262500	219440

NOTES:

(1) - samples suffixed with "-2" collected in July 1990.

(2) - not detected.

(3) - value is estimated if compound is present < CRQL.

(4) - sample was collected in area "G", but noted as "H".

(5) - samples G-TP-68 and G-TP-68-1 were collected at different depths.

OLD BRICKLAND REFINERY SITE
SUNLAND PARK, NEW MEXICO

Table 10c

SELECTED METALS ANALYSIS FROM UNIQUE SOIL SAMPLES IN AREA "G"

Parameter	G-TP-66	G-TP-67	G-TP-68	G-TP-69	G-TP-70	G-TP-71	G-TP-72	G-TP-73
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	36.7	3.3	0.4B	1.5	NA	NA	NA	NA
Chromium	20.0	16.4	16.3	14.2	97.0	16.7B	17.6	17.6
Copper	992N	101N	7.1N	38.8N	20100*N	18900*N	412*N	17.6*N
Nickel	14.5	9.9	9.2	8.2	41.2	13U	10.4	12.5
Zinc	985	671	33.7	80.9	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1260	336	19.6	78.3	34900N	18600N	1700N	29.9N

Parameter	G-TP-74	G-TP-75	G-TP-76	G-TP-77	G-TP-78	G-TP-79	G-TP-80	H-TP-81
Mercury	NA	NA	NA	0.06UN	NA	NA	NA	NA
Silver	NA	NA	NA	2.5	NA	NA	NA	NA
Cadmium	2U	24.1	1.5	0.3B*N	NA	NA	NA	NA
Chromium	NA	NA	NA	16.9	18.3	16.9	13.7	NA
Copper	19.6B*N	693*N	199*N	13.0*N	NA	NA	NA	NA
Nickel	23.5B	9.1	NA	7.7	NA	NA	NA	NA
Zinc	NA	NA	79.2N	41.3N	NA	NA	NA	NA
Arsenic	NA	NA	NA	29.9*NS	NA	NA	NA	NA
Lead	14.5N	1200N	2090N	18.4N	NA	NA	NA	NA

Parameter	H-TP-82	G-SS-7	G-SS-8	G-SS-9
Mercury	NA	0.03	0.15	0.09
Silver	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Chromium	NA	9.5	7.0	89.5
Copper	NA	3100	2000	800
Nickel	NA	16	12	8.5
Zinc	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA
Lead	NA	3800	24000	800

Table 11

Results of Comparative Metals Sampling

Sample Location	Arsenic		Barium		Cadmium		Chromium		Lead		Mercury		Selenium		Silver	
	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996	Eder 1990	GCL 1996
B-1	169	11	NA	146	44.4*N	ND	NA	13	1500N	154	NA	ND	NA	ND	NA	ND
B-HA-4	5.98*NS	10	NA	142	4.7*N	0.9	860	9	2830N	75	0.41N	ND	NA	ND	4.9	ND
E-TP-26	32.2NS	31	NA	167	NA	2.5	NA	12	139000	18300	0.16N	4.48	NA	ND	NA	ND
E-SS-4	NA	30	NA	95	NA	4.8	75	14	1000	1170	ND	1.66	NA	ND	NA	ND
F-TP-34	NA	15	NA	165	NA	1	NA	13	377000*	83	NA	0.11	NA	ND	NA	ND
F-SS-6	NA	58	NA	101	NA	11.9	8	13	260	1500	0.1	0.31	NA	10	NA	ND
G-SS-8	NA	13	NA	119	NA	0.8	7.0	9	24000	36	0.15	ND	NA	10	NA	3
G-TP-70	NA	65	NA	533	NA	8.6	97.0	104	34900N	7200	NA	2.23	NA	20	NA	ND

Background

BG-1 (GCL 1996)	42	102	9.2	11	292	0.12	ND	ND
BG-2 (GCL 1996)	14	102	1.8	8	103	ND	ND	ND
NMEID (Lab SLD)	NA	77	NA	9	150	ND	NA	ND
NMEID (Lab AT)	71	NA	4.2	3	182	0.05	NA	1.2
NMEID (Lab IT)	NA	NA	NA	4.3	160	NA	0.8	NA
USGS Western US	<.01 - 97	NR	NR	3 - 2000	<10 - 700	<.01 - 4.6	NR	NR
Eder	<1.4	NA	0.9 - 5.5	7.5 - 23	6 - 270	<0.02 - 0.11	<1.3	<0.25 - 1.2

All Units are mg/Kg
NA = Not Analyzed
NR = Not Recorded
ND = Not Detected
N = Matrix spike out of acceptable range
* = Digested duplicate out of 20% RPD (relative percent difference)
S = Performed by method of standard additons (MSA)
NMEID background data from **NMEID Listing Site Inspection, January 16, 1990.**
USGS Western US background data from **Shaklette, H.T. et. al, 1971**

Table 12
Free Phase Hydrocarbon Thickness in Monitoring Wells and Well Points
(feet)

Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Jun. 95
MW-1	-	-	NP	NP	NP	NP	-	NP
MW-2	-	-	NP	NP	NP	NP	-	NP
MW-3S	-	-	NP	NP	NP	NP	NP	NP
MW-3D	-	-	NP	NP	NP	NP	NP	NP
MW-4	-	-	NP	NP	NP	NP	NP	NP
MW-5	-	-	NP	NP	NP	NP	NP	NP
MW-6S	-	-	NP	NP	NP	NP	NP	NP
MW-6D	-	-	NP	NP	NP	NP	NP	NP
MW-7	-	-	NP	NP	NP	NP	NP	NP
MW-8	-	-	NP	NP	NP	NP	NP	NP
MW-9S	-	-	NP	NP	NP	NP	NP	NP
MW-10	5.42	3.58	-	3.45	2.40	2.46	-	2.29
MW-11	-	-	NP	NP	0.05	-	-	0.16
MW-12	-	-	NP	NP	NP	NP	-	NP
MW-13	-	-	-	NP	NP	NP	-	NP
MW-14	-	-	-	NP	NP	NP	NP	NP
MW-15	-	-	-	NP	NP	NP	NP	NP
MW-16	-	-	-	NP	NP	NP	NP	NP
MW-17	-	-	-	NP	NP	NP	NP	NP
WP-1	-	-	-	NP	NP	NP	-	0.16
WP-2	-	-	-	NP	NP	NP	-	NP
WP-3	-	-	-	NP	NP	NP	-	NP
WP-4	-	-	-	NP	NP	NP	-	NP
WP-5	-	-	-	NP	NP	NP	-	NP
WP-6	-	-	-	NP	NP	NP	-	NP
WP-7	-	-	-	NP	NP	NP	-	Trace
WP-8	-	-	-	NP	NP	NP	-	NP
WP-9	0.01	-	-	NP	NP	NP	-	NP
WP-10	-	-	-	NP	0.20	Dry	-	NP
WP-11	0.01	-	-	NP	Dry	Dry	-	Thick
WP-12	-	-	-	NP	Dry	-	-	NP

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Table 12 (Cont'd)
Free Phase Hydrocarbon Thickness in Monitoring Wells and Well Points
(feet)

Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Jun. 95
WP-13	-	-	-	NP	NP	NP	-	NP
WP-14	-	-	-	NP	Tar	-	-	0.14
WP-15	-	-	-	NP	NP	NP	-	NP
WP-16	-	-	-	NP	In Silt	In Silt	-	NP
WP-17	-	-	-	NP	Dry	Dry	-	NP
WP-18	-	-	-	NP	NP	NP	-	NP
WP-19	-	0.01	-	NP	NP	NP	-	NP
WP-20	-	-	-	NP	Product	NP	-	NP
WP-21	-	-	-	NP	NP	NP	-	NP
WP-22	-	-	-	NP	NP	NP	-	NP
WP-23	-	-	-	NP	NP	NP	-	NP
WP-24	-	-	-	NP	NP	NP	-	NP
WP-25	0.05	0.05	-	0.22	Product	0.20	-	1.56
WP-26S	-	0.12	-	2.20	2.59	1.53	-	NP
WP-26D	-	-	-	NP	NP	NP	-	NP
WP-27S	-	-	-	NP	NP	NP	-	Trace
WP-27D	-	-	-	0.11	0.45	0.49	-	Trace
WP-28	-	-	-	NP	NP	NP	-	NP
WP-29	-	-	-	NP	NP	NP	-	NP
WP-30	-	-	-	NP	NP	NP	-	NP
WP-31	-	-	-	NP	NP	NP	-	NP
WP-32	-	-	-	Dry	Dry	Dry	-	Dry
WP-33	-	-	-	NP	NP	NP	-	NP
WP-34	-	-	-	NP	NP	NP	-	NP
WP-35	-	-	-	NP	NP	NP	-	NP
WP-36	-	-	-	NP	NP	NP	-	NP
WP-37	-	-	-	NP	NP	NP	-	NP

Notes: NP = Not present.
- = Not measured.

Table 13
BTEX Quarterly Analytical Results
(μg/L)

Well ID	Mar. 94	July 94	Sept. 94	Dec. 94	Mar. 95	June 95
MW-1	ND	1.3	ND	ND	NS	NS
MW-2	70.2	ND	ND	ND	NS	NS
MW-3S	22.9	0.8	ND	ND	ND	ND
MW-3D	ND	0.6	ND	ND	ND	ND
MW-4	132.5/111.6	1862	2000	220	226	812
MW-5	7733	5130/4330	5760	4824	5150	NS
MW-6S	93.6	228	57.6	59	192	660/580
MW-6D	ND	ND	ND	ND	ND	ND/ND
MW-7	33.7	3.2	4.9	36	100	NS
MW-8	10320	2400	13000	5440	15100	NS
MW-9S	ND	0.6	ND	ND	0.6	ND
MW-11	129.8	ND	35.6	17.5	15	NS
MW-12	ND	1.9	ND	ND	NS	NS
MW-14	-	23000	2900	930	1125	10000
MW-15	-	60	351	290	NS	22.1
MW-16	-	2/11	ND	ND	ND	ND
MW-17	-	66	110/143.2	480	67	1583

Notes:
ND = Not detected < 0.5 μg/L.
NS = Not sampled for BTEX.
All units are in micrograms per liter (μg/L)

Table 14
Results of Surface Water Sampling for BTEX from the Rio Grande

Well ID	Mar. 94	June 94	Sept. 94	Dec. 94	Mar. 95	June 95
US MW-12					ND	ND
DS MW-3D					ND	ND
DS MW-6D					ND	ND
DS MW-9D						ND

Table 15

Results of Sediment Sampling from the Rio Grande

Location	Benzene	Toluene	Ethylbenzene	Xylenes
SS-1	ND	ND	ND	ND
SS-2	ND	ND	ND	ND
SS-3	ND	ND	ND	ND
SS-4	ND	ND	ND	1
SS-5	ND	ND	ND	ND
SS-6	ND	ND	ND	ND
SS-7	ND	ND	ND	ND
SS-8	ND	ND	ND	ND
SS-9	ND	ND	ND	ND
SS-10	ND	ND	ND	ND
SS-11	ND	ND	ND	ND
SS-12	ND	ND	ND	ND
SS-13	ND	ND	ND	ND
SS-14	ND	ND	ND	ND
SS-15	ND	ND	ND	ND
SS-16	ND	ND	ND	ND
SS-17	ND	ND	ND	ND
SS-18	ND	ND	ND	ND
SS-19	ND	ND	ND	ND
SS-20	ND	ND	ND	ND

Units are in µg/L
ND = Not Detected

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Table 16

Results of Metals Analyses Based on Quarterly Sampling of Monitoring Wells

Well ID	Sample Date	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc
NM WQCC Std.		5.0	0.1	1.0	0.01	0.05	0.05	1.0	1.0	0.05	0.2	0.002	1.00	0.2	0.05	0.1	10.0
MW-1	Dec-93	NA	0.07	0.14	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-1	Mar-94	NA	0.07	0.11	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-1	Jun-94	1.2	ND	0.18	ND	ND	ND	0.01	1.96	ND	1.42	ND	ND	ND	ND	ND	0.01
MW-1	Sep-94	0.11	ND	0.13	ND	ND	ND	ND	0.08	ND	1.12	ND	ND	ND	0.1	ND	ND
MW-1	Dec-94	0.10	ND	0.12	ND	ND	ND	0.02	0.03	ND	0.21	0.0002	ND	ND	ND	ND	ND
MW-2	Mar-94	NA	ND	0.01	ND	0.01	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-2	Jun-94	ND	ND	ND	ND	ND	ND	ND	1.83	ND	7.47	ND	ND	ND	ND	ND	ND
MW-2	Sep-94	0.12	0.05	0.03	ND	ND	ND	ND	0.05	ND	8.07	ND	ND	ND	ND	ND	0.03
MW-2	Dec-94	ND	ND	ND	ND	ND	ND	0.01	0.18	ND	1.95	ND	ND	ND	ND	ND	ND
MW-3D	Dec-93	NA	ND	0.04	ND	ND	ND	0.02	NA	ND	NA	ND	ND	0.04	0.1	ND	0.01
MW-3D	Mar-94	NA	ND	0.04	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-3D	Jun-94	0.23	ND	0.04	ND	ND	ND	ND	2.41	ND	3.25	ND	ND	ND	ND	ND	ND
MW-3D	Sep-94	0.1	ND	0.06	ND	ND	ND	ND	0.1	ND	2.75	ND	ND	ND	ND	0.01	0.02
MW-3D	Dec-94	0.09	ND	0.04	0.006	ND	ND	0.01	0.08	ND	1.27	ND	ND	ND	ND	ND	ND
MW-3S	Dec-93	NA	ND	0.08	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	0.1	ND	NA
MW-3S	Mar-94	NA	ND	0.08	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-3S	Jun-94	2.32	ND	0.13	ND	ND	ND	0.01	3.91	ND	1.12	ND	ND	ND	ND	ND	0.09
MW-3S	Sep-94	0.19	0.08	0.08	ND	ND	ND	ND	0.16	ND	0.51	ND	ND	ND	ND	ND	ND
MW-3S	Dec-94	0.13	ND	0.08	ND	ND	ND	0.01	0.12	ND	0.06	ND	ND	ND	ND	ND	ND
MW-4	Mar-94	NA	0.07	0.05	ND	0.01	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-4	Jun-94	ND	ND	0.2	ND	ND	ND	ND	1.78	ND	3.21	ND	ND	ND	ND	ND	ND
MW-4	Sep-94	0.11	0.11	0.39	ND	ND	ND	ND	0.86	ND	3.21	ND	ND	ND	ND	ND	0.01
MW-4	Dec-94	0.12	ND	0.17	ND	ND	ND	ND	1.99	ND	2.43	ND	ND	ND	ND	ND	ND
MW-5	Mar-94	NA	ND	0.31	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	0.1	ND	ND
MW-5	Jun-94	ND	ND	0.25	ND	ND	ND	ND	0.06	ND	0.01	ND	ND	ND	ND	ND	ND
MW-5	Sep-94	0.12	0.08	0.18	ND	ND	ND	ND	0.17	ND	0.03	ND	ND	ND	ND	ND	0.02
MW-5	Dec-94	0.06	0.13	0.22	ND	ND	ND	ND	0.09	ND	0.03	ND	ND	ND	ND	ND	ND

Table 16 (Continued)

Results of Metals Analyses Based on Quarterly Sampling of Monitoring Wells

Well ID	Sample Date	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc
NM WQCC Std.		5.0	0.1	1.0	0.01	0.05	0.05	1.0	1.0	0.05	0.2	0.002	1.00	0.2	0.05	0.1	10.0
MW-6D	Dec-93	NA	ND	0.05	0.029	ND	ND	0.02	NA	ND	NA	ND	ND	0.04	ND	ND	0.02
MW-6D	Mar-94	NA	ND	0.02	ND	ND	ND	ND	NA	ND	NA	ND	ND	0.04	ND	ND	ND
MW-6D	Jun-94	0.06	ND	0.03	ND	ND	ND	ND	1.30	ND	4.20	ND	ND	ND	ND	ND	ND
MW-6D	Sep-94	0.09	ND	0.05	ND	ND	ND	ND	0.28	ND	3.1	ND	ND	ND	ND	ND	0.02
MW-6D	Dec-94	0.07	ND	0.03	ND	ND	ND	0.01	0.11	ND	2.19	ND	ND	ND	ND	ND	ND
MW-6S	Dec-93	NA	ND	0.04	ND	ND	ND	0.02	NA	ND	NA	ND	ND	0.04	0.1	ND	0.01
MW-6S	Mar-94	NA	0.27	1.07	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-6S	Jun-94	0.08	0.08	1.16	ND	ND	ND	ND	4.78	ND	1.08	ND	ND	ND	ND	ND	ND
MW-6S	Sep-94	0.1	0.48	0.98	ND	ND	ND	ND	4.68	ND	0.59	0.0003	ND	ND	ND	0.01	0.02
MW-6S	Dec-94	0.08	0.08	0.73	ND	ND	ND	ND	1.88	ND	0.46	ND	ND	ND	ND	ND	0.01
MW-7	Mar-94	NA	0.08	0.22	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	0.01
MW-7	Jun-94	0.07	ND	0.35	ND	ND	ND	ND	1.92	ND	0.80	ND	ND	ND	ND	0.01	ND
MW-7	Sep-94	0.11	0.28	0.36	ND	ND	ND	ND	0.97	ND	0.87	0.0005	ND	ND	ND	ND	ND
MW-7	Dec-94	0.10	ND	0.41	ND	ND	ND	ND	0.45	ND	0.64	0.0006	ND	ND	ND	ND	ND
MW-8	Mar-94	NA	0.22	0.52	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	0.2	ND	0.01
MW-8	Jun-94	0.12	0.08	0.70	ND	ND	ND	0.01	5.79	ND	0.23	ND	ND	ND	ND	ND	0.02
MW-8	Sep-94	0.21	0.18	0.74	ND	ND	ND	0.01	5.1	ND	0.18	ND	ND	ND	ND	0.01	0.03
MW-8	Dec-94	0.19	0.14	0.68	ND	ND	ND	0.02	2.06	ND	0.18	ND	ND	ND	ND	ND	ND
MW-9S	Dec-93	NA	ND	0.07	0.014	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	0.01
MW-9S	Mar-94	NA	ND	0.04	ND	ND	ND	ND	NA	ND	NA	0.0002	ND	ND	ND	ND	ND
MW-9S	Jun-94	ND	ND	0.04	ND	ND	ND	ND	4.80	ND	3.20	ND	ND	ND	ND	ND	ND
MW-9S	Sep-94	0.12	ND	0.06	0.006	ND	ND	ND	4.66	ND	3.11	ND	ND	ND	ND	0.01	0.01
MW-9S	Dec-94	0.06	ND	0.04	0.005	ND	ND	ND	2.25	ND	2.30	ND	ND	ND	ND	ND	ND
MW-11	Mar-94	NA	0.1	1.0	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-11	Jun-94	0.10	0.07	1.10	0.009	ND	ND	0.01	4.68	ND	0.67	ND	ND	ND	ND	0.01	0.01
MW-11	Sep-94	0.12	0.15	1.03	0.009	ND	ND	ND	4.27	ND	0.75	0.0003	ND	ND	ND	ND	0.01
MW-11	Dec-94	0.09	0.05	0.84	ND	ND	ND	ND	1.58	ND	0.51	ND	ND	ND	ND	ND	ND

Table 16 (Continued)

Results of Metals Analyses Based on Quarterly Sampling of Monitoring Wells

Well ID	Sample Date	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc
NM WQCC Std.		5.0	0.1	1.0	0.01	0.05	0.05	1.0	1.0	0.05	0.2	0.002	1.00	0.2	0.05	0.1	10.0
MW-12	Dec-93	NA	ND	0.04	0.005	ND	ND	ND	NA	ND	NA	ND	ND	0.05	ND	0.03	ND
MW-12	Mar-94	NA	0.08	0.03	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	0.2	ND	0.02
MW-12	Jun-94	ND	ND	0.02	ND	ND	ND	ND	3.89	ND	5.90	ND	ND	ND	ND	ND	0.01
MW-12	Sep-94	0.23	ND	0.11	0.009	0.05	ND	0.01	5.85	ND	10.8	ND	0.05	ND	0.4	0.03	0.04
MW-12	Dec-94	0.08	ND	0.03	ND	ND	ND	0.02	1.10	ND	6.18	ND	ND	ND	ND	ND	ND
MW-14	Jun-94	ND	0.05	0.67	ND	ND	ND	ND	4.78	ND	4.13	ND	ND	0.07	ND	ND	ND
MW-14	Sep-94	0.2	0.17	0.78	ND	ND	ND	ND	13.1	ND	7.59	0.0009	ND	ND	ND	0.02	0.02
MW-14	Dec-94	0.08	ND	0.22	ND	ND	ND	ND	10.3	ND	5.46	0.0024	ND	ND	ND	ND	ND
MW-15	Jun-94	0.32	ND	0.28	ND	ND	ND	ND	0.52	ND	1.06	ND	ND	ND	ND	ND	ND
MW-15	Sep-94	0.42	0.14	0.78	ND	ND	ND	ND	2.33	ND	2.9	ND	ND	ND	ND	0.02	0.01
MW-15	Dec-94	0.36	ND	0.38	ND	ND	ND	ND	3.69	ND	1.66	ND	ND	ND	ND	0.09	ND
MW-16	Jun-94	ND	ND	0.31	ND	ND	ND	ND	ND	ND	2.77	ND	ND	ND	ND	ND	ND
MW-16	Sep-94	0.12	0.05	0.09	ND	ND	ND	ND	2.05	ND	5.21	ND	ND	0.06	ND	ND	0.02
MW-16	Dec-94	0.11	ND	0.07	ND	ND	ND	ND	1.70	ND	4.15	ND	ND	0.05	ND	ND	ND
MW-17	Jun-94	0.05	ND	1.24	ND	ND	ND	ND	0.21	ND	3.16	ND	ND	0.05	ND	ND	ND
MW-17	Sep-94	0.22	0.16	2.11	ND	ND	0.03	ND	9.7	ND	8.48	ND	ND	ND	ND	0.02	0.02
MW-17	Dec-94	0.10	ND	0.42	ND	ND	ND	ND	8.47	ND	3.37	ND	ND	ND	ND	ND	ND

NMWQCC = New Mexico Water Quality Control Commission

Note: ND = Not Detected

NA = Not Analyzed

All units are in milligrams per liter (mg/L)

Table 17

Analyses of Aquifer Slug Test Using Bouwer-Rice Method

PVC Casing radius, rc =	0.167 ft
Wellbore radius, rw =	0.5 ft
Saturated Aquifer Thickness, b =	80 ft
Screen Length, L =	10 ft
Gravel Pack Porosity, n =	0.27
Conductivity ratio, Kz/Kr =	1

Well Name	Lithologic Description	Ho ft	H ft	Y_0 ft	K ft/min
MW-6D-F	70% sand, 15% gravel sand, 15% silty clay	0.86	32.60	1.48	0.07000
MW-6D-R	70% sand, 15% gravel sand, 15% silty clay	1.69	32.60	3.65	0.07000
MW-3D-F	60% sand, 20% silty sand, 20% gravel sand	0.98	33.43	1.43	0.04500
MW-9S-R	75% sand, 25% sandy gravel	1.66	11.39	2.10	0.04200
MW-9S-F	75% sand, 25% sandy gravel	1.68	11.39	1.90	0.04000
MW-10-R	90% sand, 10% sandy clay	2.22	12.48	1.79	0.00400
MW-3S-F	90% sand, 10% silty sand	1.64	12.59	1.55	0.00150
MW-6S-F	100% sand	1.78	11.89	1.40	0.00090
MW-6S-R	100% sand	1.80	11.89	1.67	0.00086
MW-1-F	50% silty clay, 50% silty sand	1.94	12.26	1.81	0.00069
MW-11-F	50% sand, 50% silty clay	1.77	14.94	1.23	0.00034
MW-5-F	60% sand, 40% silty clay	1.68	10.65	0.95	0.00010
MW-8-F	100% silty clay	2.08	11.25	0.78	0.00008

Notes:
D - deep well,
S - shallow well,
F - falling-head test,
R - rising-head test,
Ho - initial displacment,
H - static water column height in well,
Y_0 - intersection with y axis.
K - conductivity.

Table 18

Estimated Downstream Benzene Concentrations (Ct) in the Rio Grande

Parameter	Current Conditions			Future Conditions Realistic Case			Future Conditions Worst Case		
	Low Flow	Avg Flow	High Flow	Low Flow	Avg Flow	High Flow	Low Flow	Avg Flow	High Flow
Qa (cfs)	0.0011	0.0011	0.0011	0.0021	0.0021	0.0021	0.0011	0.0011	0.0011
K (ft/day)	14	14	14	14	14	14	14	14	14
i (ft/ft)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
A (ft^2)	6,750	6,750	6,750	12,750	12,750	12,750	6,750	6,750	6,750
flow width	450	450	450	850	850	850	450	450	450
flow depth	15	15	15	15	15	15	15	15	15
Ca (ppb)	MW-6S = 220			Total Ca for the model cells = 31,780 (individual model cells Ca: 30 to 4,700)			MW-10 = 125,000 (Benzene concentration in free product)		
Qr (cfs)[a]	68	630	2,400	68	630	2,400	68	630	2,400
Ct (ppb)	0.0036	0.0004	0.0001	0.981	0.106	0.028	2.022	0.218	0.057

[a] Low, average, and high river flow rates were taken from recording years 1975 through 1995 at Courchesne Bridge gaging station (IBWC, 1996).

\CLOSED\REXENE\54159\REX114B.TBL

Table 19

Comparison of Background Soil Samples with Culvert Soil Samples

Sample Location	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Background													
BG-1 (GCL 1996)	NA	42	NA	9.2	11	NA	292	0.12	NA	ND	ND	NA	NA
BG-2 (GCL 1996)	NA	14	NA	1.8	8	NA	103	ND	NA	ND	ND	NA	NA
NMEID (Lab SLD)	NA	NA	NA	NA	9	NA	150	ND	NA	NA	ND	NA	NA
NMEID (Lab AT)	NA	71	NA	4.2	3	NA	182	0.05	NA	NA	1.2	NA	NA
NMEID (Lab IT)	NA	NA	NA	NA	4.3	NA	160	NA	NA	0.8	NA	NA	NA
MW-12	< 1.1	< 1.4	2.2	5.5	11	140	270	0.11	8	< 1.3	< 0.25	< 0.65	180
USGS Western US	< 1-2.6	< 0.1-97	< 1-13	NR	3-2000	2-300	< 10-700	< 0.01-4.6	< 5-700	NR	NR	2.4-31	< 20-1500
NURE													
Culverts													
Cul 4-1	< 1.1	< 1.4	0.9	4.2	23	90	75	0.04	10	< 1.3	0.9	< 0.65	120
Cul 3-1	< 1.1	< 1.4	0.7	0.9	7.5	6	6	< 0.02	5	< 1.3	< 0.25	< 0.65	21
Cul 3-2	< 1.1	< 1.4	1.6	2.3	12	13	8	< 0.02	9.5	< 1.3	< 0.25	< 0.65	30
Standards													
New Jersey*	340	20 (a)	1 (b)	100	NA	600 (d)	600 (f)	270	2400 (c)(e)	3100 (e)	4100 (e)	2 (b)	1500 (d)
US EPA**	30	80	0.2	40	400	NA	NA	20	2000	NA	200	NA	NA

All Units are mg/Kg

NA = Not Analyzed

ND = Not Detected

NR = Not Recorded

a) cleanup standard proposal was based on natural background.

b) health based criterion is lower than analytical limits; cleanup criterion based on practical quantitative level.

c) criterion based on inhalation exposure pathway which yielded a more stringent criterion than the incidental ingestion exposure pathway.

d) criterion based on ecological (phytotoxicity) effects.

e) level of the human health based criterion is such that evaluation for potential environmental impacts on a site by site basis is recommended.

f) criterion was derived from a model developed by the Society of Environmental Geochemistry and Health and was designed to be protective for adults in the workplace.

NMEID background data from NMEID Listing Site Inspection, January 16, 1990.

USGS Western US background data from Shaklette, H.T. et. al, 1971

* "Cleanup Standards for Contaminated Sites," N.J.A.C. 7:26D, Department of Environmental Protection. Non-residential direct contact soil cleanup criteria.

1) Criteria are health-based using an incidental ingestion exposure pathway except where noted.

2) Criteria are subject to change based on site specific factors (e.g. aquifer characteristics, soil type, natural background, environmental impacts, etc.

** Corrective Action for Solid Waste Management Units (SWMU) at Hazardous Waste Management Facilities. 40 CFR 264.521 (a)(2)(i-iv), action levels.

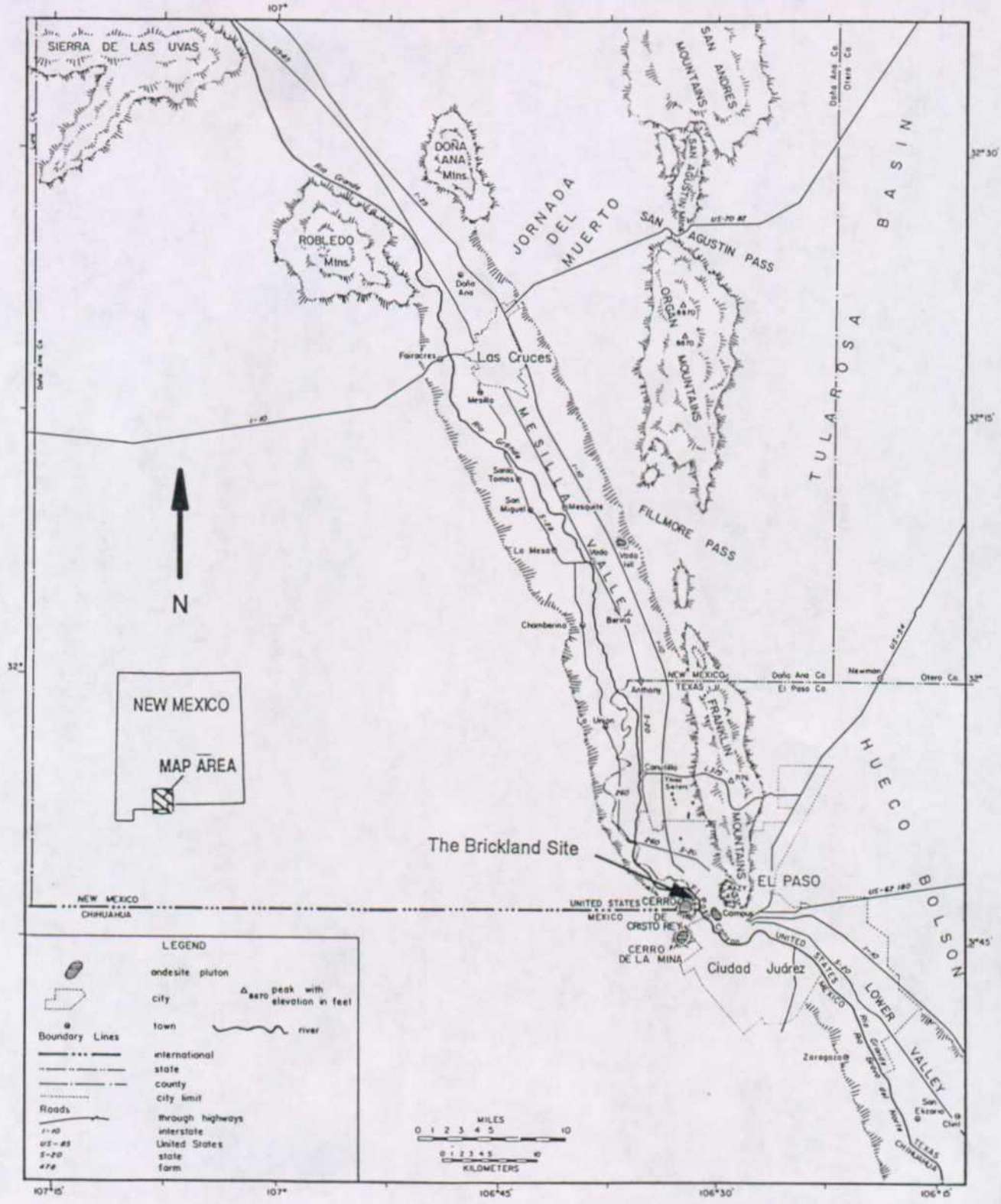
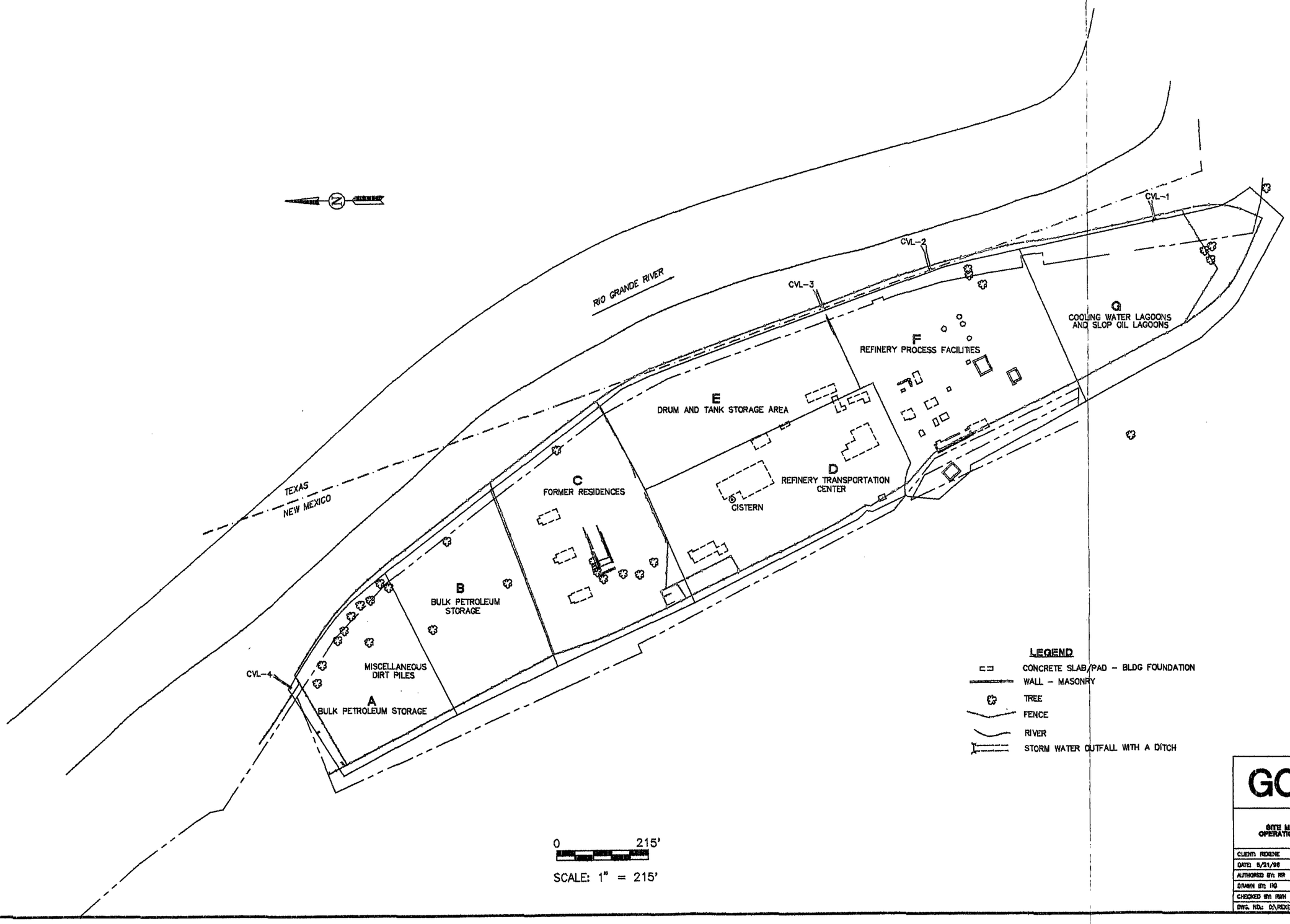


Figure 1 The Brickland Refinery Site Location Map



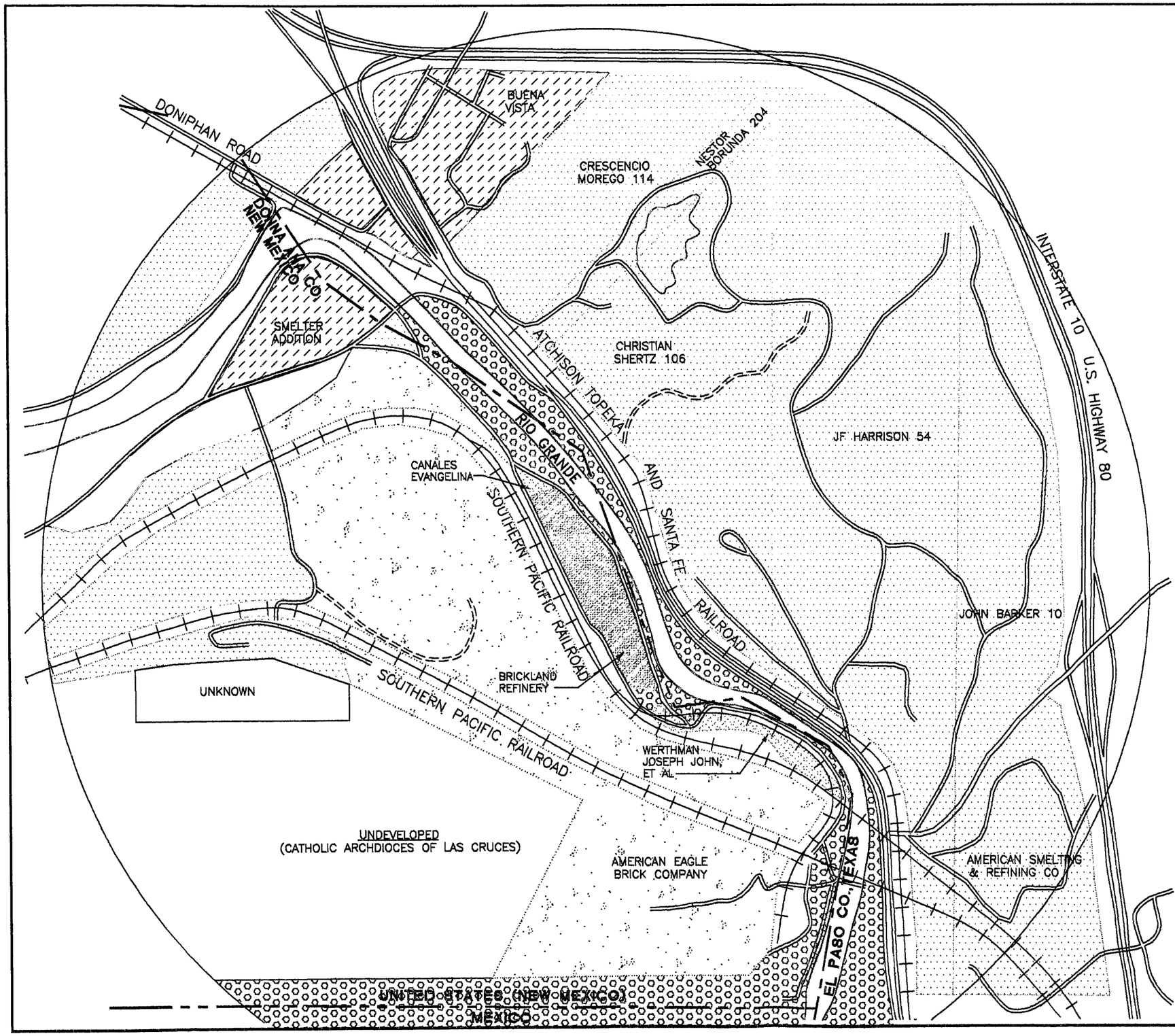
LEGEND

- CONCRETE SLAB/PAD – BLDG FOUNDATION
- WALL – MASONRY
- TREE
- FENCE
- RIVER
- STORM WATER OUTFALL WITH A DITCH

GCL

FIGURE 2
SITE MAP SHOWING REFINERY OPERATION AREAS A THROUGH G

CLIENT:	REXENE
DATE:	5/21/96
AUTHORED BY:	RR
DRAWN BY:	HG
CHECKED BY:	RWH
DWG. NO.:	D:\REXENE\SITE-MP1.DWG



N

0 1000'

SCALE: 1" = 1000'

LEGEND

- RAILROAD
- GENERAL SITE BOUNDARY
- RESIDENTIAL
- PRIVATE PARCELS
- INTERNATIONAL BOUNDARY AND WATER COMMISSION
- COMMERCIAL/INDUSTRIAL
- RAILROAD OR HIGHWAY RIGHT OF WAY
- MIXED RESIDENTIAL/COMMERCIAL
- AMERICAN EAGLE BRICK COMPANY

SOURCE:
SMELTERTOWN QUADRANGLE
7.5 MINUTE SERIES
1955, PHOTOREVISED 1961 AND 1973

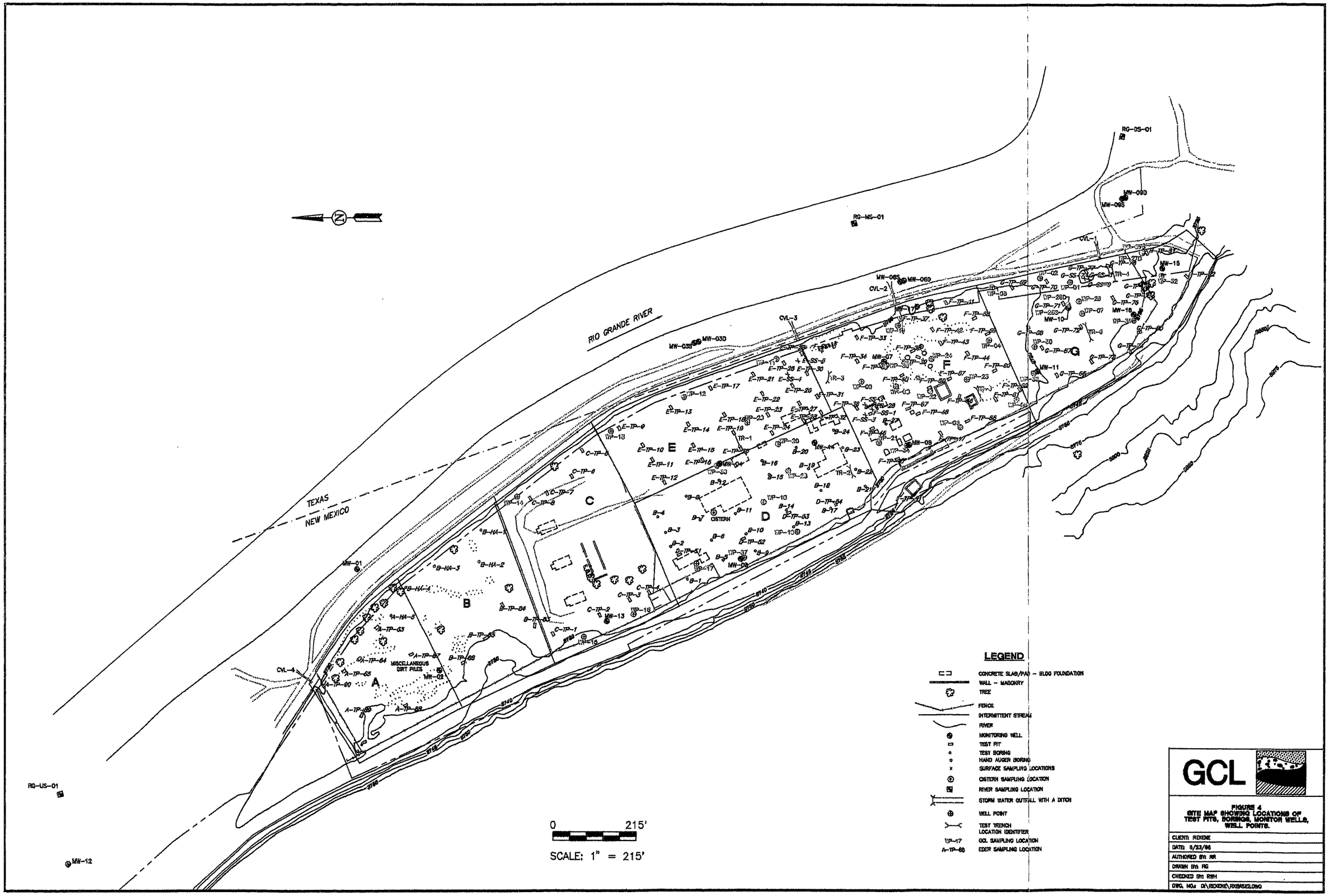
NOTES:
ALL BOUNDARIES AND LOCATIONS ARE APPROXIMATE.
FOR PROPERTY OWNERSHIP IN TEXAS, REFER TO APPENDIX

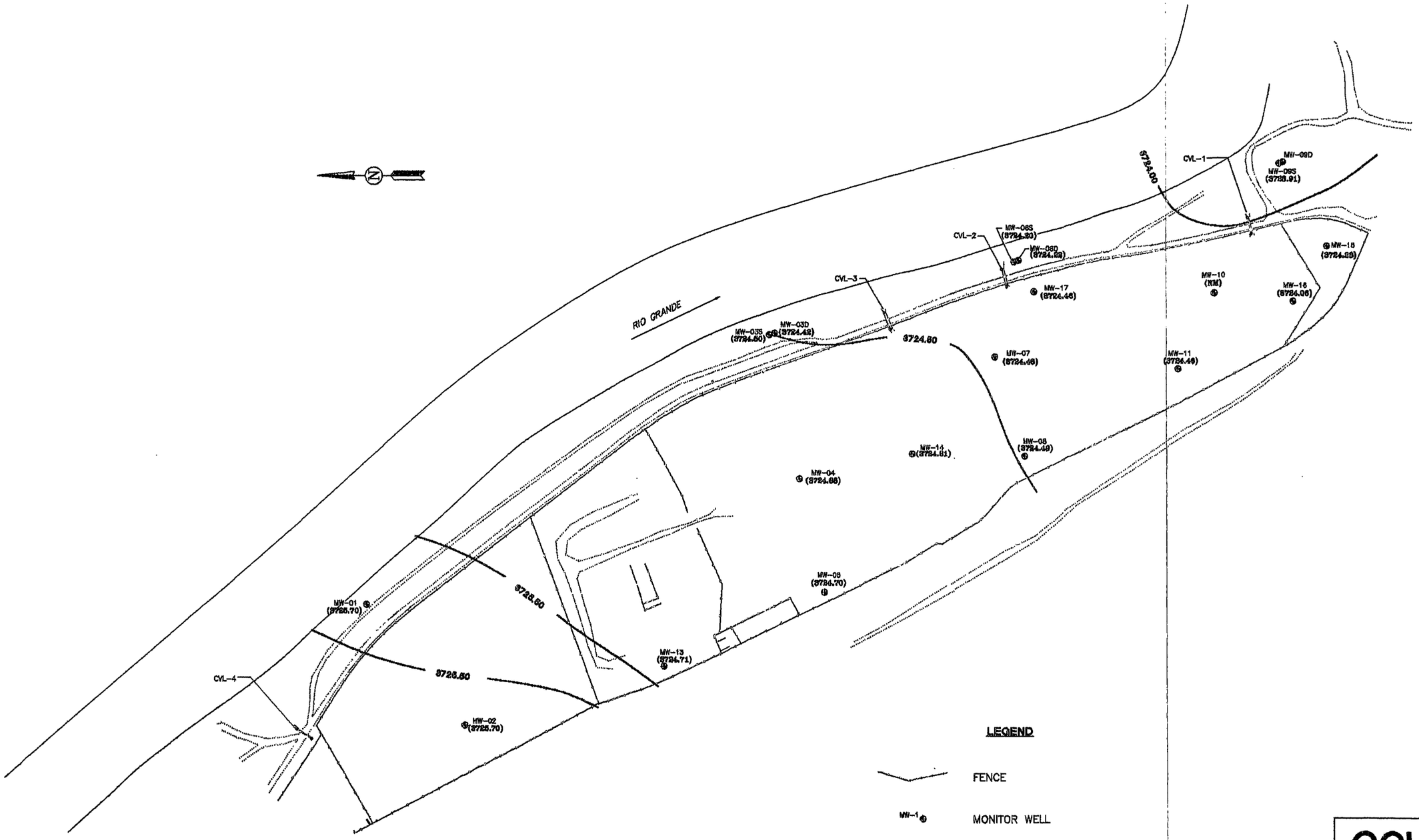
GCL

FIGURE 3
LAND OWNERSHIP IN THE VICINITY OF THE BRICKLAND REFINERY

CLIENT: REXENE	
AUTHOR: RWH	DATE: 5-1-96
DRAWN BY: SAS5-1-96	REV. NO.: 0
CHECKED BY: MS	FILE: REX-1.DWG

H:\ACAD\REXENE\REX-1.DWG 5-1-96

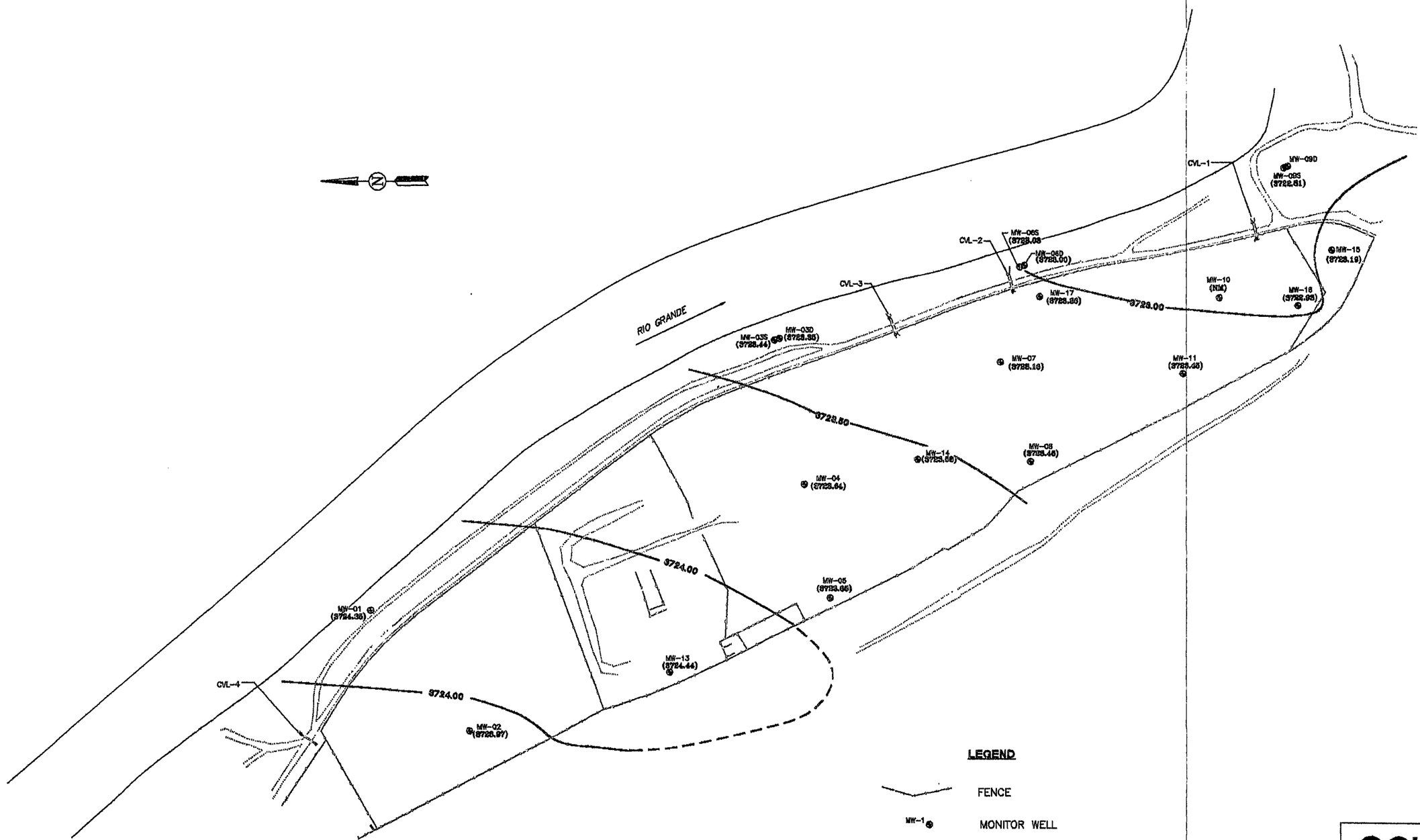

RIO GRANDE RIVER
TEXAS
NEW MEXICO
RG-MS-01
RG-DS-01
RG-US-01
MW-12
MW-01
MW-02
MW-03
MW-04
MW-05S
MW-05D
MW-06S
MW-06D
MW-07
MW-08
MW-09
MW-10
MW-11
MW-13
MW-14
MW-15
MW-16
CVL-1
CVL-2
CVL-3
CVL-4
CVL-5
CISTERN
MISCELLANEOUS DIRT PILES
A
B
C
D
E
F
G
0
215'
SCALE: 1" = 215'
LEGEND
CONCRETE SLAB/PAD - BLDG FOUNDATION
WALL - MASONRY
TREE
FENCE
INTERMITTENT STREAM
RIVER
MONITORING WELL
TEST PIT
TESY BORING
HAND AUGER BORING
SURFACE SAMPLING LOCATIONS
CISTERN SAMPLING LOCATION
RIVER SAMPLING LOCATION
STORM WATER OUTFALL WITH A DITCH
WELL POINT
TEST TRENCH LOCATION IDENTIFIER
VP-17 GCL SAMPLING LOCATION
A-TP-66 EDER SAMPLING LOCATION
GCL
FIGURE 4
SITE MAP SHOWING LOCATIONS OF TEST PITS, BORINGS, MONITOR WELLS, WELL POINTS.
CLIENT: REXENE
DATE: 6/23/96
AUTHORED BY: RR
DRAWN BY: RG
CHECKED BY: RWH
DWG. NO.: D:\REXENE\REXMSE2.DWG



GCL

FIGURE 5
GROUNDWATER ELEVATION
CONTOUR MAP (SEPTEMBER 1994)
BRICKLAND REFINERY SITE

CLIENT:	REXENE
DATE:	5/21/96
AUTHORED BY:	BR\RWH
DRAWN BY:	RG
CHECKED BY:	MWS
DWG. NO.:	\REXENE\GWES94.DWG



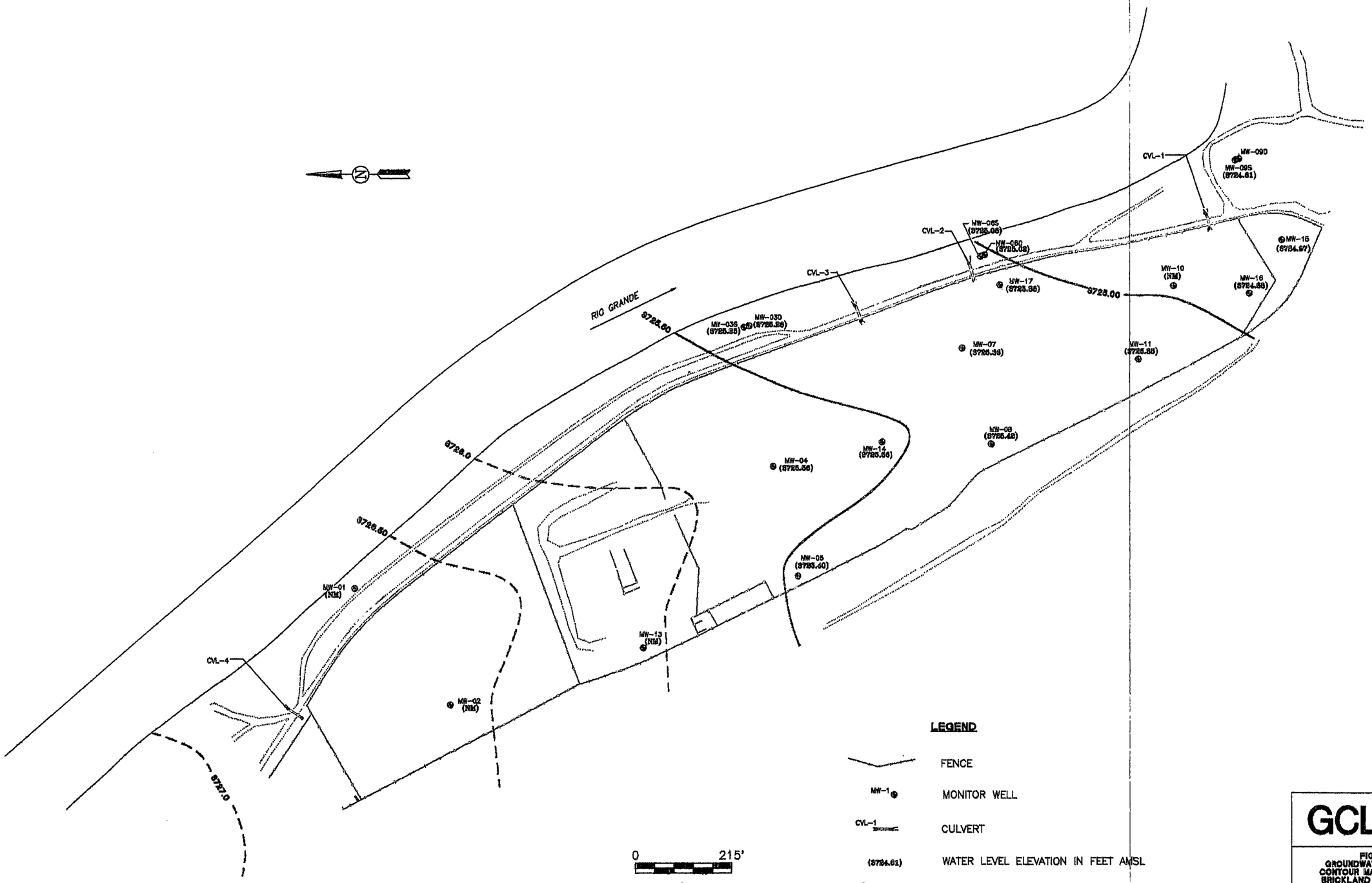
LEGEND

	FENCE
MW-1	MONITOR WELL
CVL-1	CULVERT
(3724.61)	WATER LEVEL ELEVATION IN FEET AMSL
	WATER LEVEL CONTOUR IN FEET AMSL
(NM)	NOT MEASURED

GCL

FIGURE 6
GROUNDWATER ELEVATION
CONTOUR MAP (DECEMBER 1994)
BRICKLAND REFINERY SITE

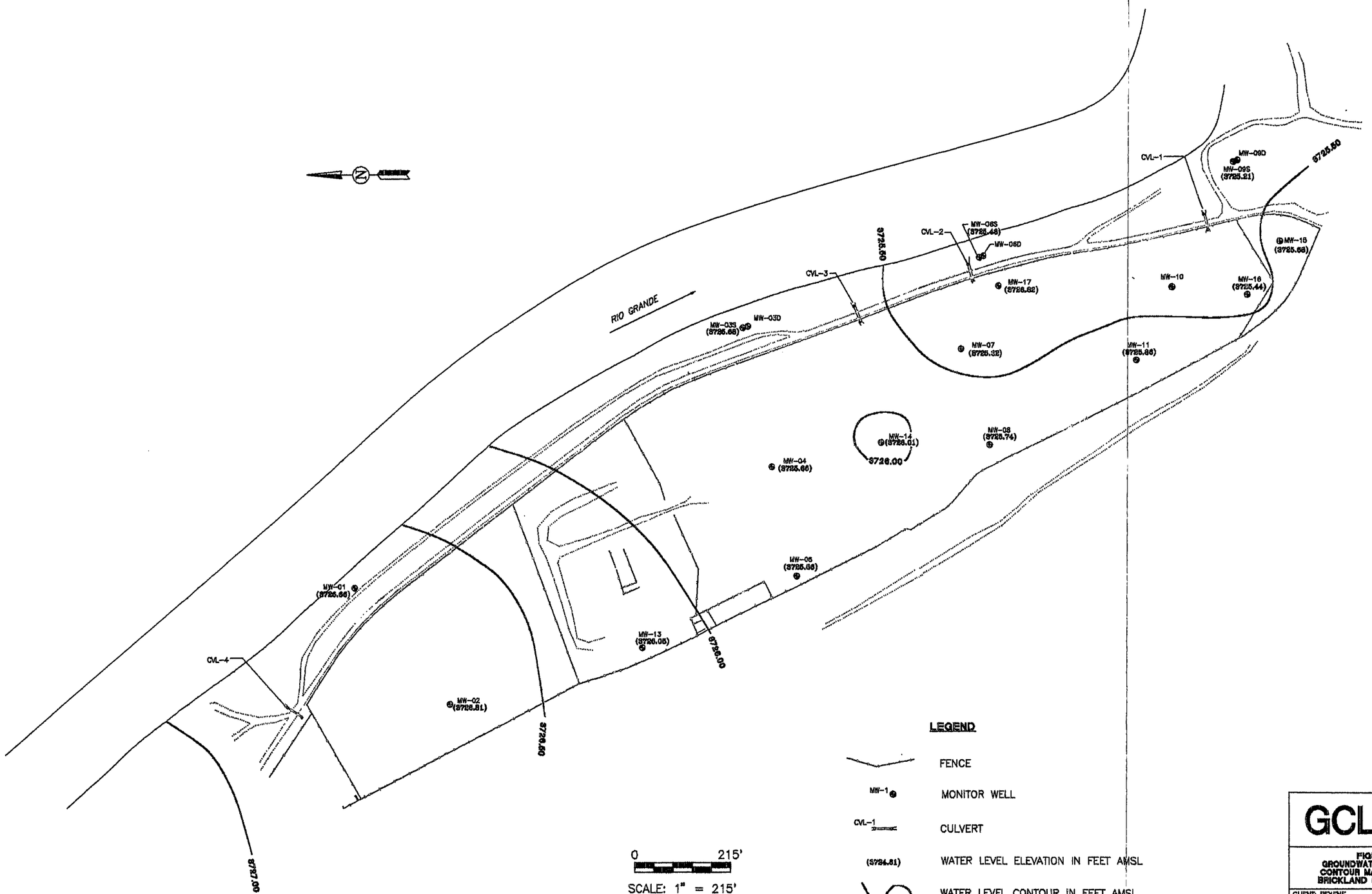
CLIENT: REXENE
DATE: 5/22/96
AUTHORED BY: BR\RWH
DRAWN BY: RG
CHECKED BY: MWS
DWG. NO.: \REXENE\GWED94.DWG



GCL

FIGURE 7
GROUNDWATER ELEVATION
CONTOUR MAP (MARCH 1995)
BRICKLAND REFINERY SITE

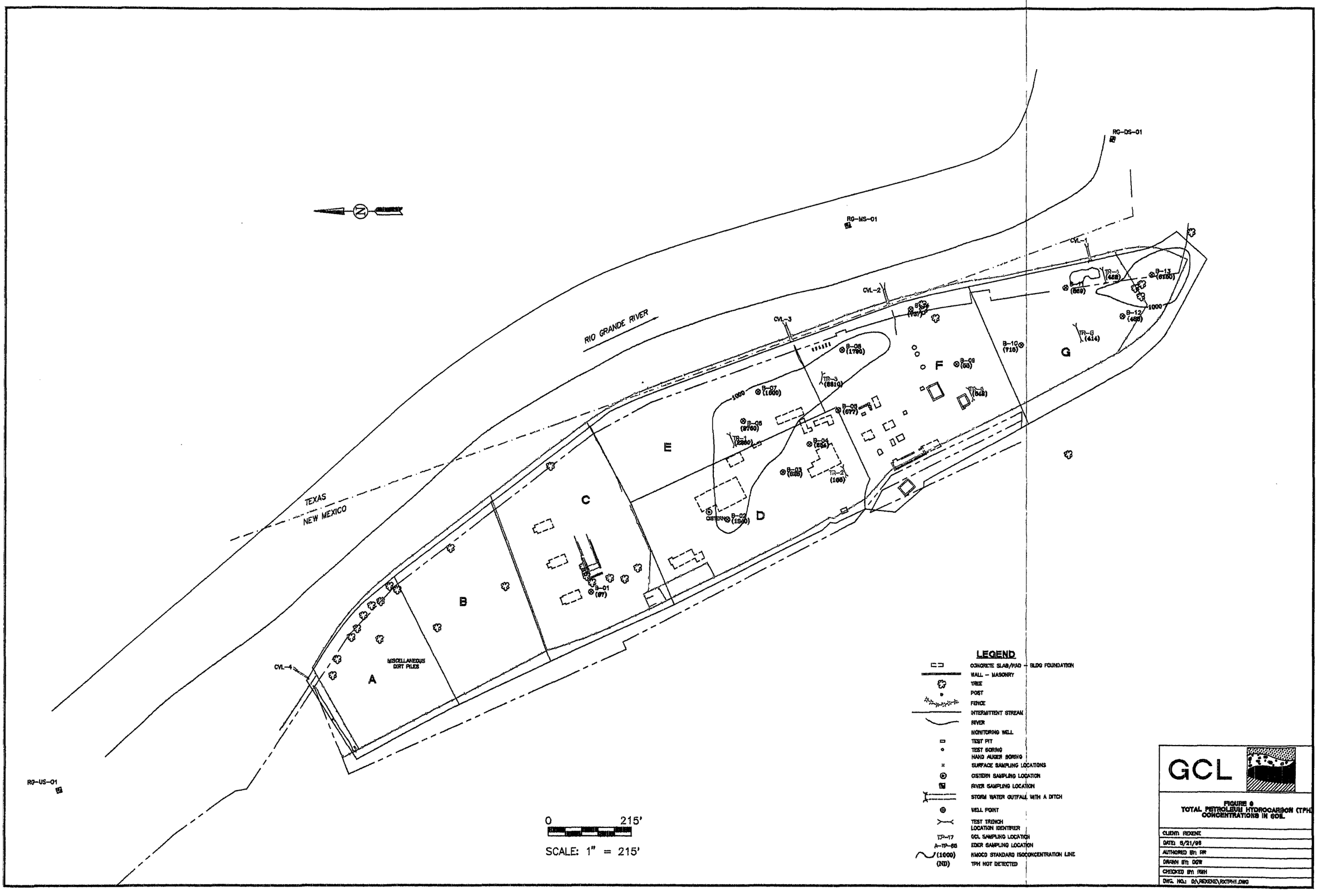
CLIENT: REXENE
DATE: 5/22/96
AUTHORED BY: BR\RWH
DRAWN BY: RG
CHECKED BY: MWS
DWG. NO.: D:\REXENE\GWEM95.DWG



GCL

FIGURE 8
GROUNDWATER ELEVATION
CONTOUR MAP (JUNE 1996)
BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 6/22/96
AUTHORED BY: BR\RWH
DRAWN BY: RG
CHECKED BY: MWS
DWG. NO.: D:\REXENE\GWE696.DWG



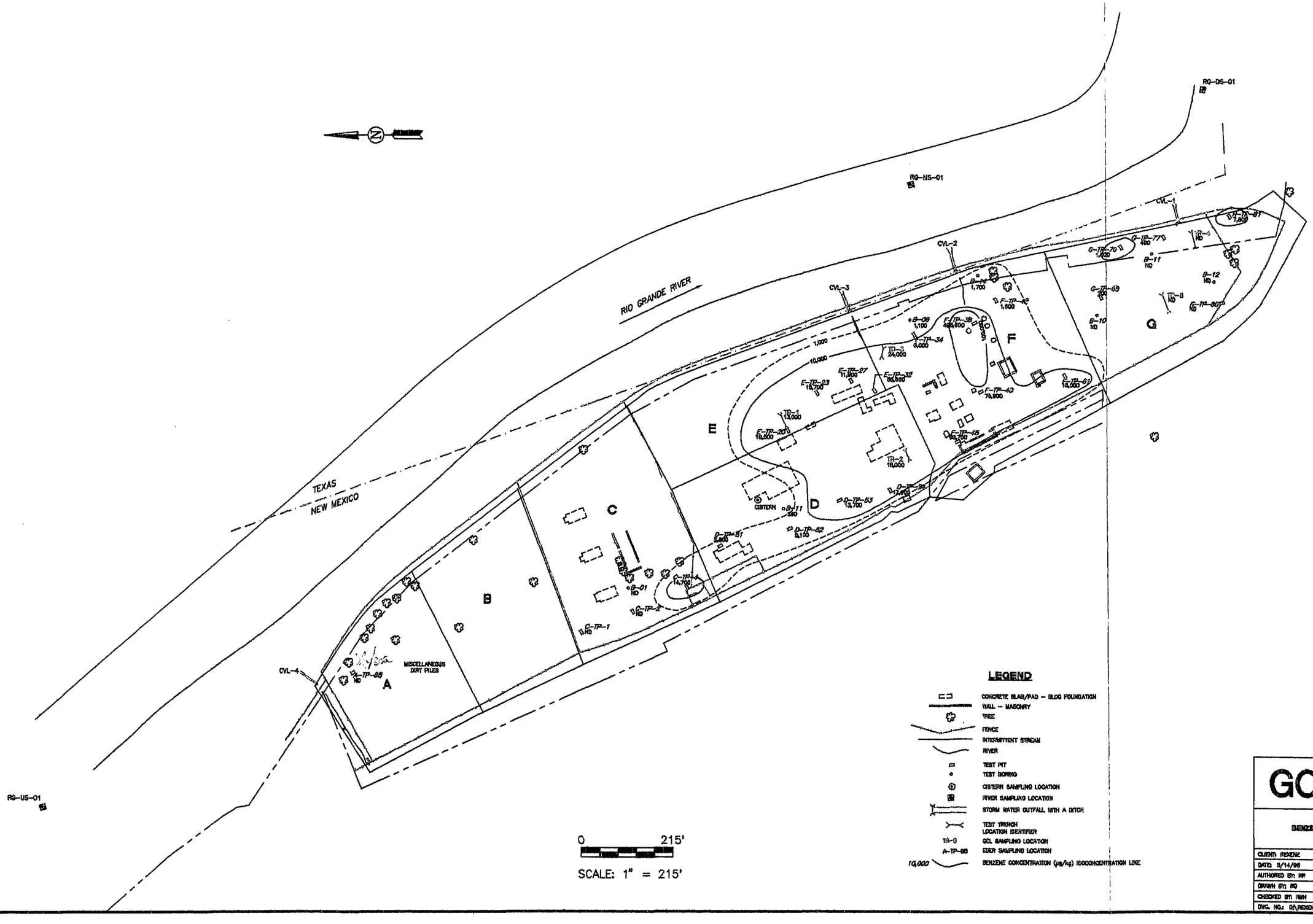
LEGEND

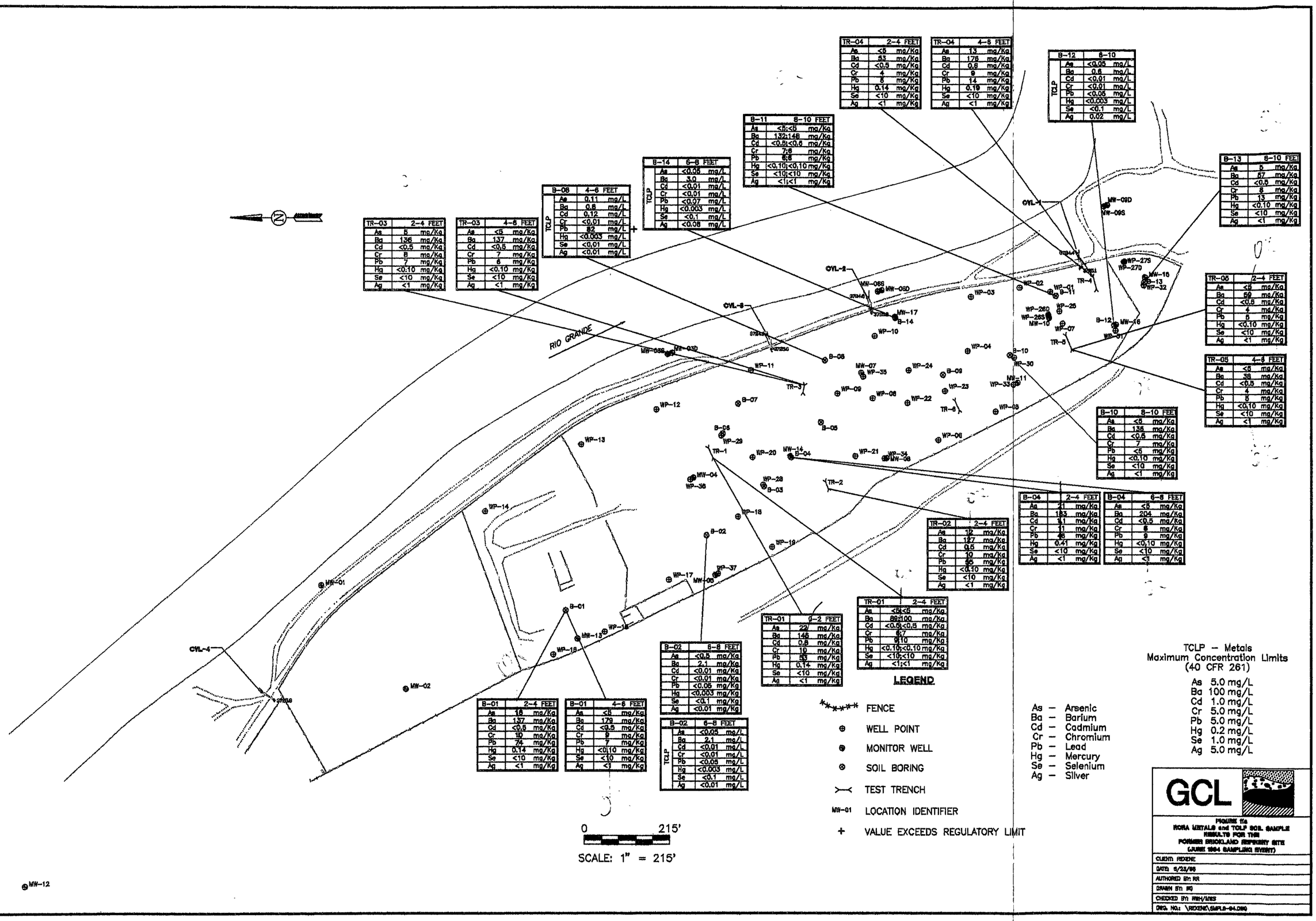
- CONCRETE SLAB/PAD – BLDG FOUNDATION
- WALL – MASONRY
- TREE
- POST
- FENCE
- INTERMITTENT STREAM
- RIVER
- MONITORING WELL
- TEST PIT
- TEST BORING
- HAND AUGER BORING
- SURFACE SAMPLING LOCATIONS
- CISTERN SAMPLING LOCATION
- RIVER SAMPLING LOCATION
- STORM WATER OUTFALL WITH A DITCH
- WELL POINT
- TEST TRENCH
- LOCATION IDENTIFIER
- TP-17 GCL SAMPLING LOCATION
- A-TP-65 EDER SAMPLING LOCATION
- (1000) NMOCD STANDARD ISOCONCENTRATION LINE
- (ND) TPH NOT DETECTED

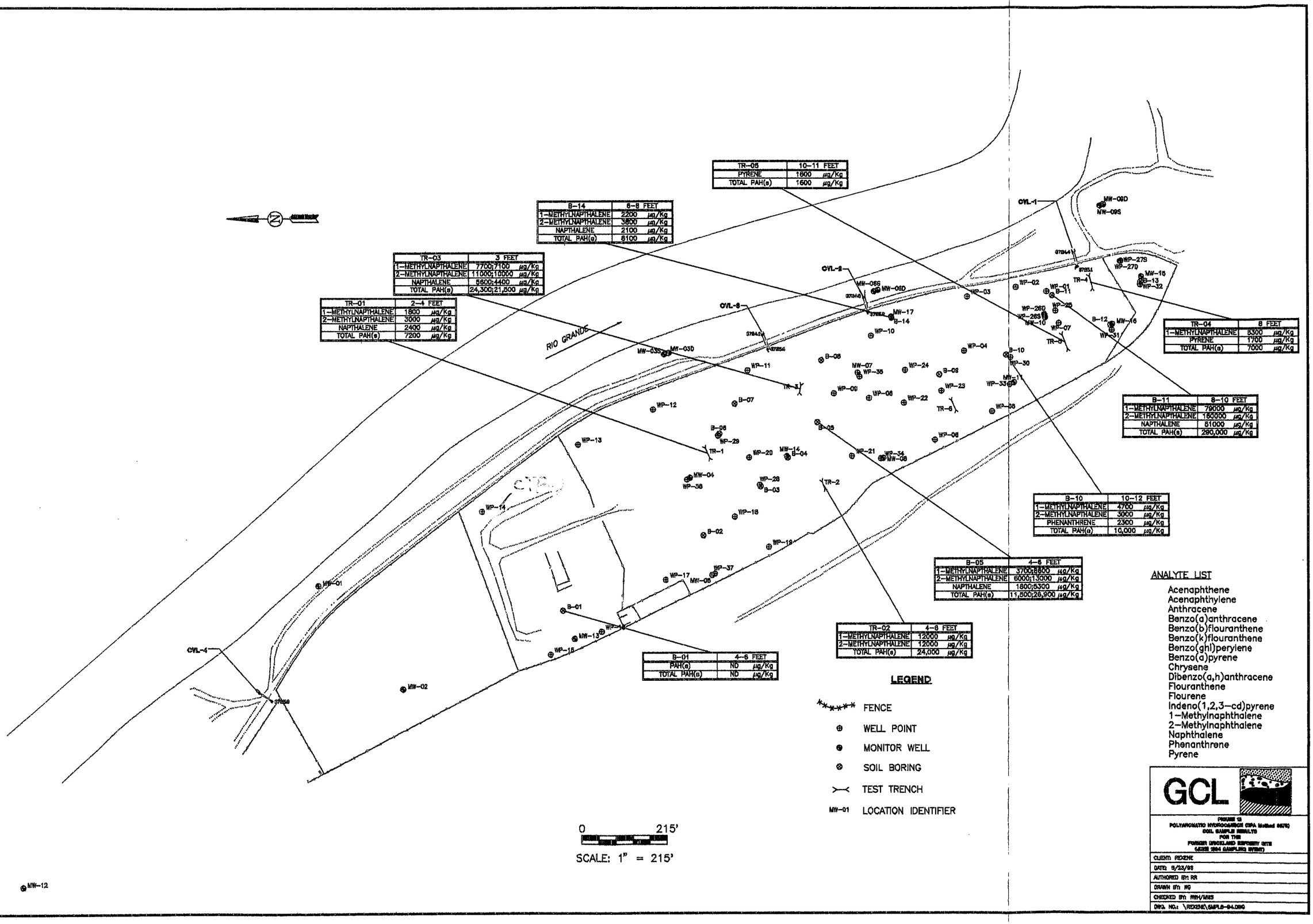
GCL

FIGURE 6
TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS IN SOIL

CLIENT: REXENE	
DATE: 5/21/98	
AUTHORED BY: RR	
DRAWN BY: DDW	
CHECKED BY: RMH	
DWG. NO.: D:\REXENE\RXTPH1.DWG	


RG-DS-01
RG-US-01
RIO GRANDE RIVER
TEXAS
NEW MEXICO
CVL-1
CVL-2
CVL-3
CVL-4
A
B
C
D
E
F
G
MISCELLANEOUS DIRT PILES
CISTERN
TR-1
TR-2
TR-3
0
215'
SCALE: 1" = 215'
LEGEND
CONCRETE SLAB/PAD - BLDG FOUNDATION
WALL - MASONRY
TREE
FENCE
INTERMITTENT STREAM
RIVER
TEST PIT
TEST BORING
CISTERN SAMPLING LOCATION
RIVER SAMPLING LOCATION
STORM WATER OUTFALL WITH A DITCH
TEST TRENCH LOCATION IDENTIFIER
GCL SAMPLING LOCATION
EDER SAMPLING LOCATION
BENZENE CONCENTRATION (µg/kg) ISOCONCENTRATION LINE
GCL
FIGURE 20
BENZENE CONCENTRATION IN SOIL
CLIENT: RESENE
DATE: 5/14/96
AUTHORED BY: RR
DRAWN BY: RG
CHECKED BY: RMH
DWG. NO.: D:\RESENE\BENCON.DWG


RIO GRANDE
TR-03 2-4 FEET
As 5 mg/Kg
Ba 136 mg/Kg
Cd <0.5 mg/Kg
Cr 8 mg/Kg
Pb 7 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-03 4-6 FEET
As <5 mg/Kg
Ba 137 mg/Kg
Cd <0.5 mg/Kg
Cr 7 mg/Kg
Pb 6 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-06 4-6 FEET
TCLP
As 0.11 mg/L
Ba 0.8 mg/L
Cd 0.12 mg/L
Cr <0.01 mg/L
Pb 82 mg/L +
Hg <0.003 mg/L
Se <0.01 mg/L
Ag <0.01 mg/L
B-14 6-8 FEET
TCLP
As <0.05 mg/L
Ba 3.0 mg/L
Cd <0.01 mg/L
Cr <0.01 mg/L
Pb <0.07 mg/L
Hg <0.003 mg/L
Se <0.1 mg/L
Ag <0.08 mg/L
B-11 8-10 FEET
As <5;<5 mg/Kg
Ba 132;148 mg/Kg
Cd <0.5;<0.5 mg/Kg
Cr 7;6 mg/Kg
Pb 6;5 mg/Kg
Hg <0.10;<0.10 mg/Kg
Se <10;<10 mg/Kg
Ag <1;<1 mg/Kg
TR-04 2-4 FEET
As <5 mg/Kg
Ba 53 mg/Kg
Cd <0.5 mg/Kg
Cr 4 mg/Kg
Pb 6 mg/Kg
Hg 0.14 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-04 4-6 FEET
As 13 mg/Kg
Ba 178 mg/Kg
Cd 0.8 mg/Kg
Cr 9 mg/Kg
Pb 14 mg/Kg
Hg 0.19 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-12 8-10
TCLP
As <0.05 mg/L
Ba 0.6 mg/L
Cd <0.01 mg/L
Cr <0.01 mg/L
Pb <0.05 mg/L
Hg <0.003 mg/L
Se <0.1 mg/L
Ag 0.02 mg/L
B-13 8-10 FEET
As 5 mg/Kg
Ba 57 mg/Kg
Cd <0.5 mg/Kg
Cr 8 mg/Kg
Pb 13 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-05 2-4 FEET
As <5 mg/Kg
Ba 59 mg/Kg
Cd <0.5 mg/Kg
Cr 4 mg/Kg
Pb 5 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-05 4-6 FEET
As <5 mg/Kg
Ba 38 mg/Kg
Cd <0.5 mg/Kg
Cr 4 mg/Kg
Pb 5 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-10 8-10 FEET
As <5 mg/Kg
Ba 136 mg/Kg
Cd <0.5 mg/Kg
Cr 7 mg/Kg
Pb <5 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-04 2-4 FEET
As 21 mg/Kg
Ba 183 mg/Kg
Cd 1.1 mg/Kg
Cr 11 mg/Kg
Pb 46 mg/Kg
Hg 0.41 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-04 6-8 FEET
As <5 mg/Kg
Ba 204 mg/Kg
Cd <0.5 mg/Kg
Cr 8 mg/Kg
Pb 9 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-02 2-4 FEET
As 12 mg/Kg
Ba 127 mg/Kg
Cd 0.5 mg/Kg
Cr 10 mg/Kg
Pb 65 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
TR-01 2-4 FEET
As <5;<5 mg/Kg
Ba 88;100 mg/Kg
Cd <0.5;<0.5 mg/Kg
Cr 6;7 mg/Kg
Pb 9;10 mg/Kg
Hg <0.10;<0.10 mg/Kg
Se <10;<10 mg/Kg
Ag <1;<1 mg/Kg
TR-01 0-2 FEET
As 22 mg/Kg
Ba 146 mg/Kg
Cd 0.8 mg/Kg
Cr 10 mg/Kg
Pb 83 mg/Kg
Hg 0.14 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-02 6-8 FEET
As <0.5 mg/Kg
Ba 2.1 mg/Kg
Cd <0.01 mg/Kg
Cr <0.01 mg/Kg
Pb <0.05 mg/Kg
Hg <0.003 mg/Kg
Se <0.1 mg/Kg
Ag <0.01 mg/Kg
B-02 6-8 FEET
TCLP
As <0.05 mg/L
Ba 2.1 mg/L
Cd <0.01 mg/L
Cr <0.01 mg/L
Pb <0.05 mg/L
Hg <0.003 mg/L
Se <0.1 mg/L
Ag <0.01 mg/L
B-01 2-4 FEET
As 18 mg/Kg
Ba 137 mg/Kg
Cd <0.5 mg/Kg
Cr 10 mg/Kg
Pb 74 mg/Kg
Hg 0.14 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
B-01 4-6 FEET
As <5 mg/Kg
Ba 179 mg/Kg
Cd <0.5 mg/Kg
Cr 9 mg/Kg
Pb 7 mg/Kg
Hg <0.10 mg/Kg
Se <10 mg/Kg
Ag <1 mg/Kg
LEGEND
FENCE
WELL POINT
MONITOR WELL
SOIL BORING
TEST TRENCH
LOCATION IDENTIFIER
VALUE EXCEEDS REGULATORY LIMIT
TCLP – Metals
Maximum Concentration Limits
(40 CFR 261)
As 5.0 mg/L
Ba 100 mg/L
Cd 1.0 mg/L
Cr 5.0 mg/L
Pb 5.0 mg/L
Hg 0.2 mg/L
Se 1.0 mg/L
Ag 5.0 mg/L
As – Arsenic
Ba – Barium
Cd – Cadmium
Cr – Chromium
Pb – Lead
Hg – Mercury
Se – Selenium
Ag – Silver
0 215'
SCALE: 1" = 215'
GCL
FIGURE 11a
NORA METALS and TCLP SOIL SAMPLE RESULTS FOR THE FORMER BRICKLAND REFINERY SITE
(JUNE 1994 SAMPLING EVENT)
CLIENT: REXENE
DATE: 6/23/98
AUTHORED BY: RR
DRAWN BY: RG
CHECKED BY: RRH/LWES
DWG. NO.: \REXENE\SMPLS-94.DWG



ANALYTE LIST

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(b)flouranthene
Benzo(k)flouranthene
Benzo(ghi)peryiene
Benzo(a)pyrene
Chrysene
Dibenzo(a,h)anthracene
Flouranthene
Flourene
Indeno(1,2,3-cd)pyrene
1-Methylnaphthalene
2-Methylnaphthalene
Naphthalene
Phenanthrene
Pyrene

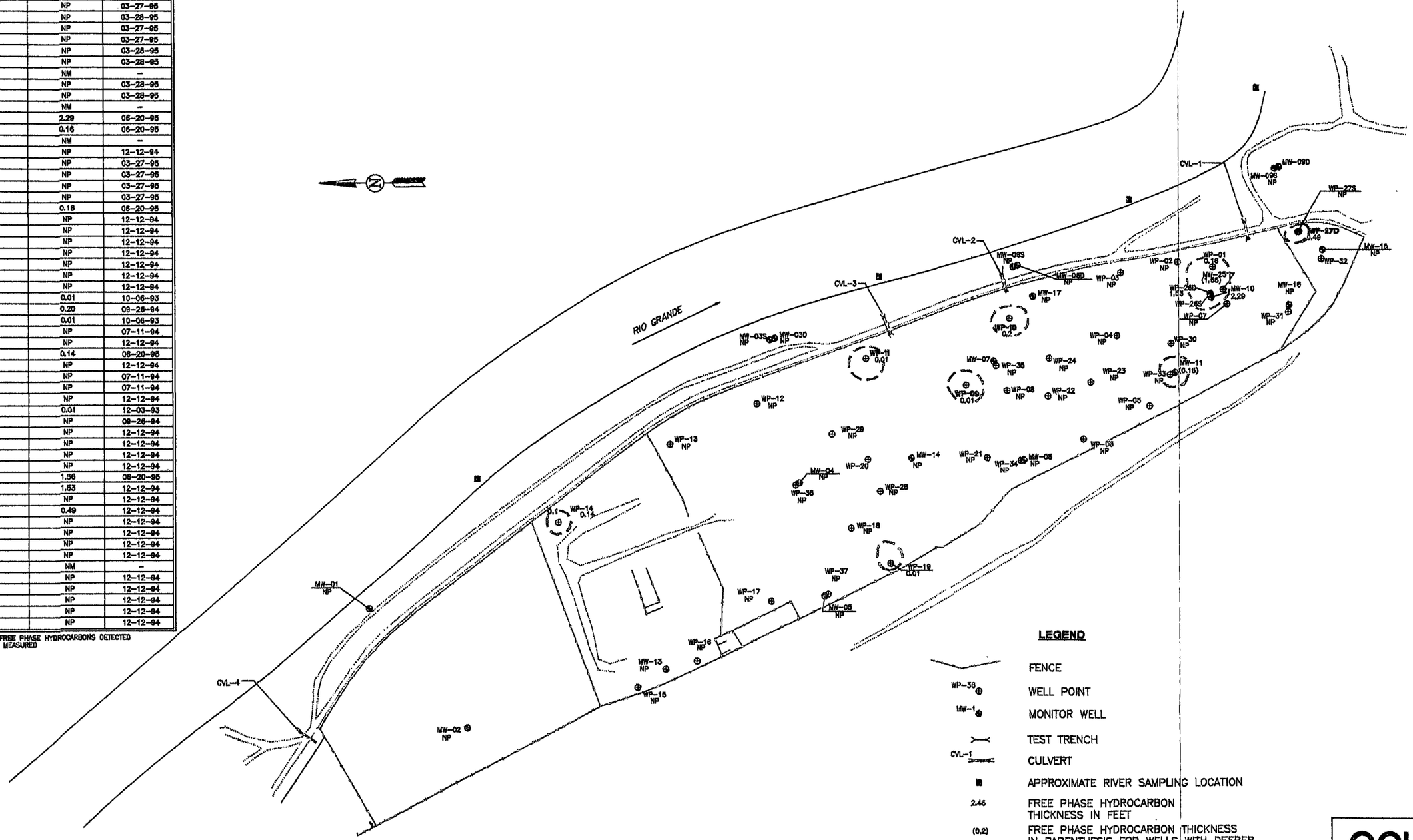
GCL

FIGURE 13
POLYAROMATIC HYDROCARBON (EPA Method 8270)
SOIL SAMPLE RESULTS
FOR THE
FORMER LYCKLAND REFINERY SITE
(JUNE 1994 SAMPLING EVENT)

CLIENT:	REXENE
DATE:	9/23/98
AUTHORED BY:	RR
DRAWN BY:	MG
CHECKED BY:	RRH/MNS
DWG. NO.:	\REXENE\SMPLS-94.DWG

MONITOR WELL/ WELL POINT	FREE PHASE HYDROCARBONS THICKNESS (FEET)	MEASUREMENT DATE
MW-01	NP	12-12-94
MW-02	NP	12-12-94
MW-03S	NP	03-27-95
MW-03D	NP	03-28-95
MW-04	NP	03-27-95
MW-05	NP	03-27-95
MW-06S	NP	03-28-95
MW-06D	NP	03-28-95
MW-07	NM	--
MW-08	NP	03-28-95
MW-09S	NP	03-28-95
MW-09D	NM	--
MW-10	2.29	06-20-95
MW-11	0.16	06-20-95
MW-12	NM	--
MW-13	NP	12-12-94
MW-14	NP	03-27-95
MW-15	NP	03-27-95
MW-16	NP	03-27-95
MW-17	NP	03-27-95
WP-01	0.18	06-20-95
WP-02	NP	12-12-94
WP-03	NP	12-12-94
WP-04	NP	12-12-94
WP-05	NP	12-12-94
WP-06	NP	12-12-94
WP-07	NP	12-12-94
WP-08	NP	12-12-94
WP-09	0.01	10-06-93
WP-10	0.20	09-26-94
WP-11	0.01	10-06-93
WP-12	NP	07-11-94
WP-13	NP	12-12-94
WP-14	0.14	06-20-95
WP-15	NP	12-12-94
WP-16	NP	07-11-94
WP-17	NP	07-11-94
WP-18	NP	12-12-94
WP-19	0.01	12-03-93
WP-20	NP	09-26-94
WP-21	NP	12-12-94
WP-22	NP	12-12-94
WP-23	NP	12-12-94
WP-24	NP	12-12-94
WP-25	1.56	06-20-95
WP-26D	1.53	12-12-94
WP-27S	NP	12-12-94
WP-27D	0.49	12-12-94
WP-28	NP	12-12-94
WP-29	NP	12-12-94
WP-30	NP	12-12-94
WP-31	NP	12-12-94
WP-32	NM	--
WP-33	NP	12-12-94
WP-34	NP	12-12-94
WP-35	NP	12-12-94
WP-36	NP	12-12-94
WP-37	NP	12-12-94

NP = NO FREE PHASE HYDROCARBONS DETECTED
NM = NOT MEASURED



0 215'

SCALE: 1" = 215'

LEGEND

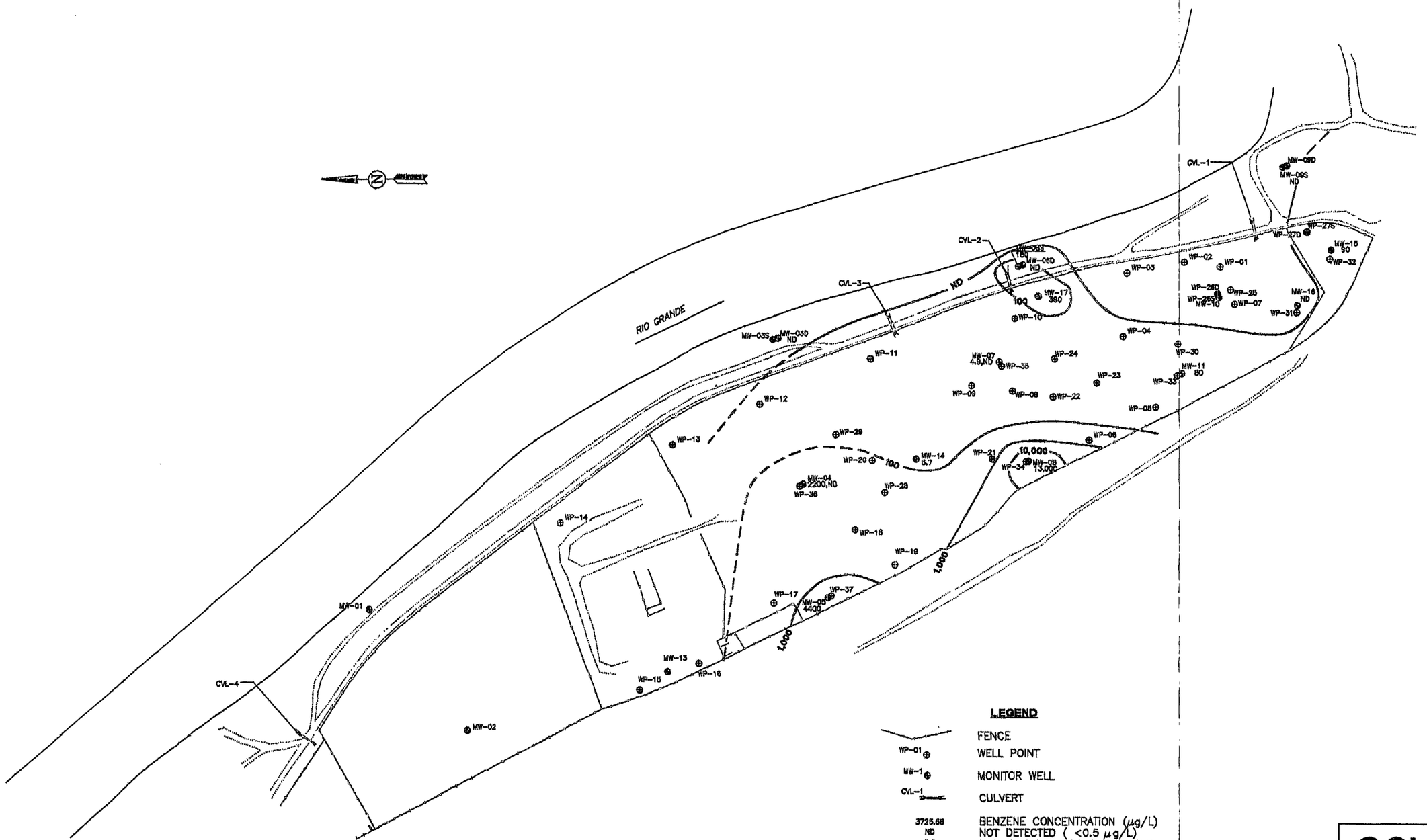
- FENCE
- WP-36 — WELL POINT
- MW-1 — MONITOR WELL
- TEST TRENCH
- CVL-1 — CULVERT
- APPROXIMATE RIVER SAMPLING LOCATION
- 2.46 — FREE PHASE HYDROCARBON THICKNESS IN FEET
- (0.2) — FREE PHASE HYDROCARBON THICKNESS IN PARENTHESIS FOR WELLS WITH DEEPER SCREENED INTERVAL
- ZERO CONTOUR

NOTE: DATA COLLECTED DURING QUARTERLY GROUNDWATER SAMPLING EVENTS (1993-1995).

GCL

FIGURE 19
FREE PHASE HYDROCARBON THICKNESS MAP
BRICKLAND REFINERY SITE

CLIENT: REXENE	
DATE: 9/13/95	
AUTHORED BY:	
DRAWN BY: MP	
CHECKED BY: TS/BAL	
DWG. NO.: \REXENE\FPRDCT2.DWG	



LEGEND

	FENCE
WP-01 ⊕	WELL POINT
MW-1 ⊕	MONITOR WELL
CVL-1	CULVERT
3725.66	BENZENE CONCENTRATION ($\mu g/L$)
ND	NOT DETECTED (<0.5 $\mu g/L$)
[?]	DATA NOT USED IN CONTOURING
(ND)	CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
	BENZENE ISOCONCENTRATION LINE (DASHED WHERE INFERRED)
ND	NOT DETECTED
NS	NOT SAMPLED

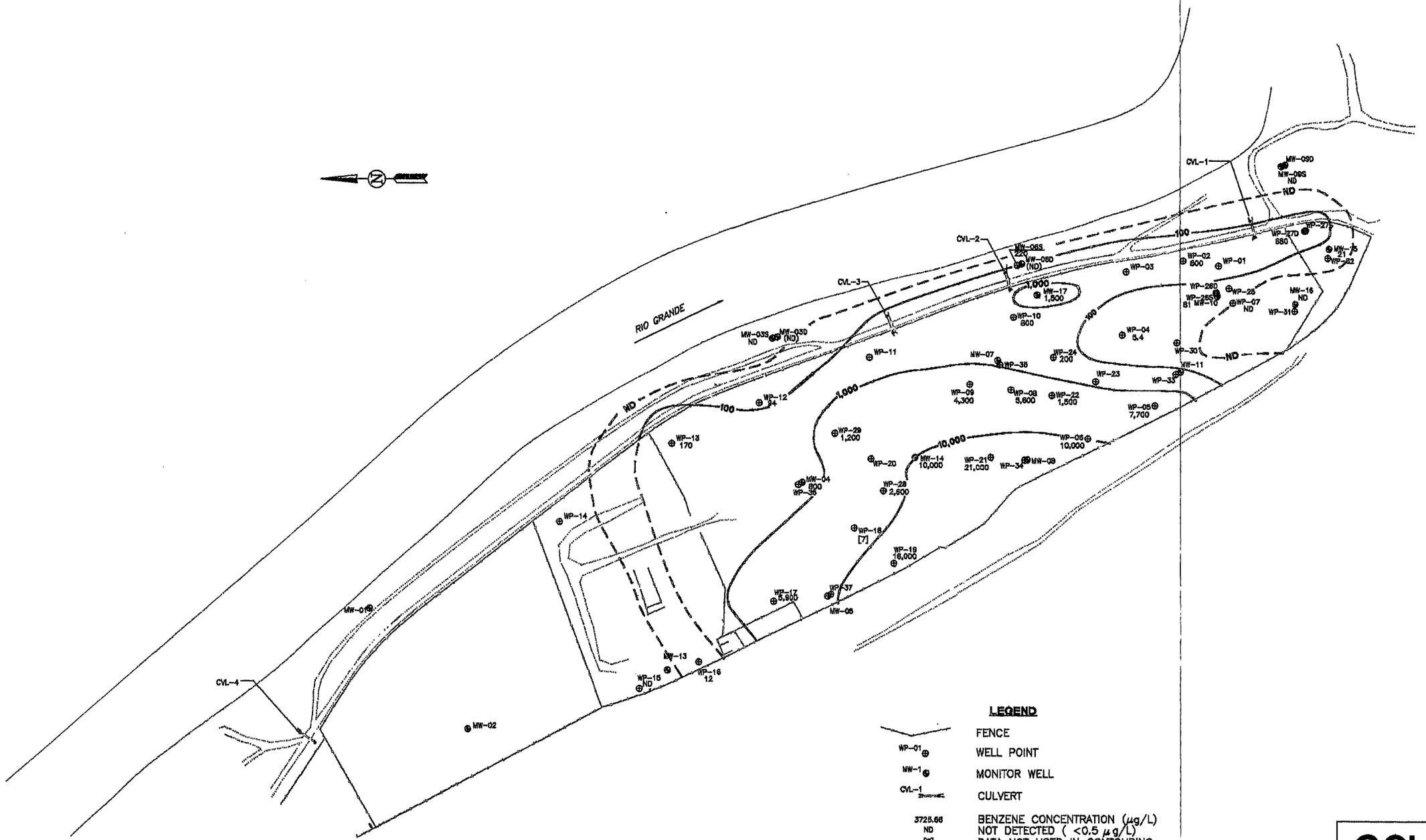
0 215'

SCALE: 1" = 215'

GCL

FIGURE 14a
BENZENE CONCENTRATION CONTOUR MAP IN 6TH QUARTER (SEPT. 1995)
BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 5/22/96
AUTHORED BY: BR/RWH
DRAWN BY: RG
CHECKED BY: MWS
DWG. NO.: \REXENE\BENS95.DWG



LEGEND

	FENCE
WP-01 ⊕	WELL POINT
MW-1 ⊕	MONITOR WELL
CVL-1	CULVERT
3725.66	BENZENE CONCENTRATION (µg/L)
ND	NOT DETECTED (<0.5 µg/L)
[7]	DATA NOT USED IN CONTOURING
(ND)	CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
	BENZENE ISOCONCENTRATION (DASHED WHERE INFERRED)
ND	NOT DETECTED
NS	NOT SAMPLED

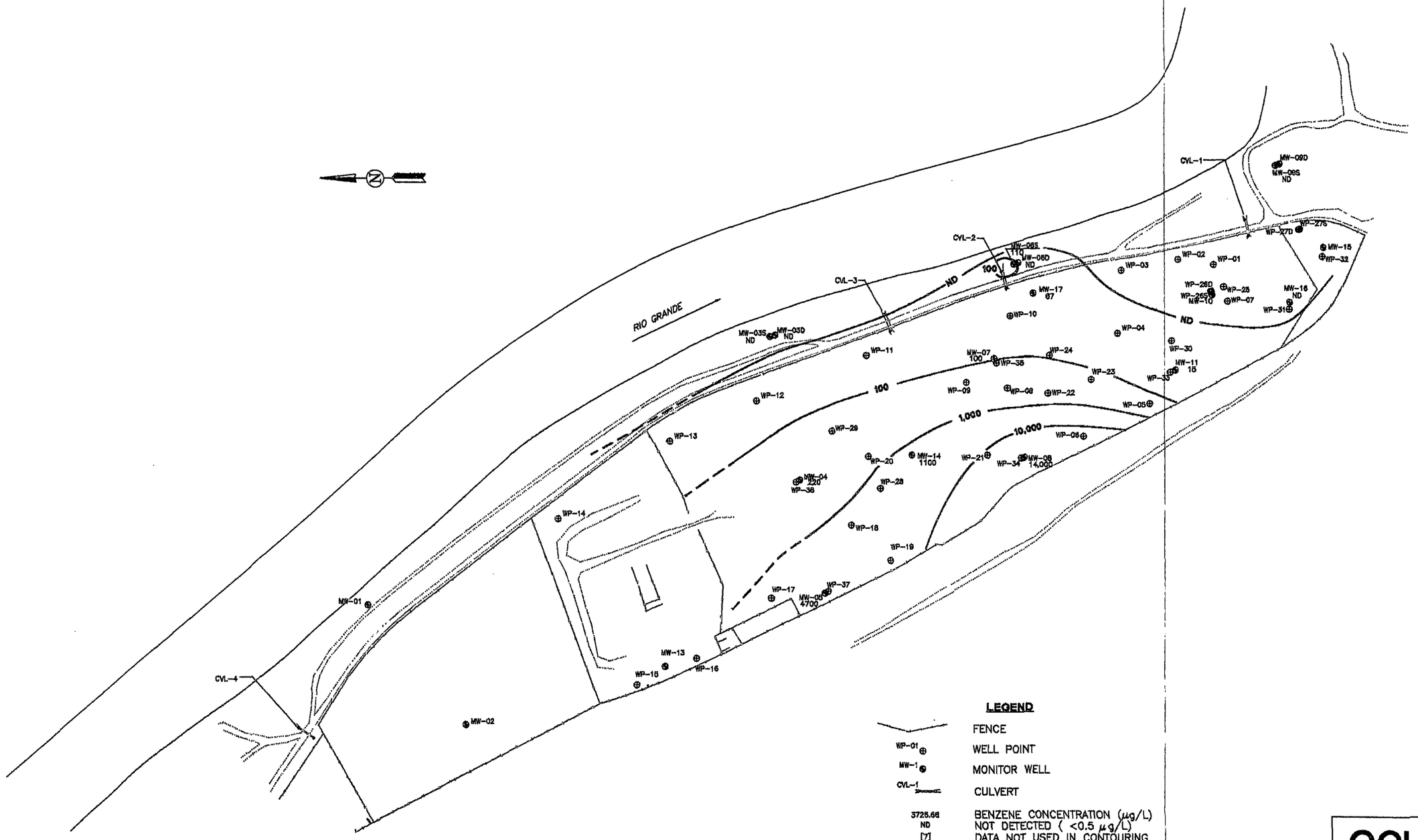
0 215'

SCALE: 1" = 215'

GCL

FIGURE 14b
BENZENE CONCENTRATION CONTOUR MAP IN 6TH QUARTER (JUNE 1996)
BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 9/21/96
AUTHORED BY: BR/RWH
DRAWN BY: RG
CHECKED BY: MWS
DWG. NO.: \REXENE\BEN96.DWG



LEGEND

	FENCE
WP-01	WELL POINT
MW-1	MONITOR WELL
CVL-1	CULVERT
3725.66	BENZENE CONCENTRATION (µg/L)
ND	NOT DETECTED (<0.5 µg/L)
[7]	DATA NOT USED IN CONTOURING
(ND)	CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
	BENZENE ISOCONCENTRATION LINE (DASHED WHERE INFERRED)
ND	NOT DETECTED
NS	NOT SAMPLED

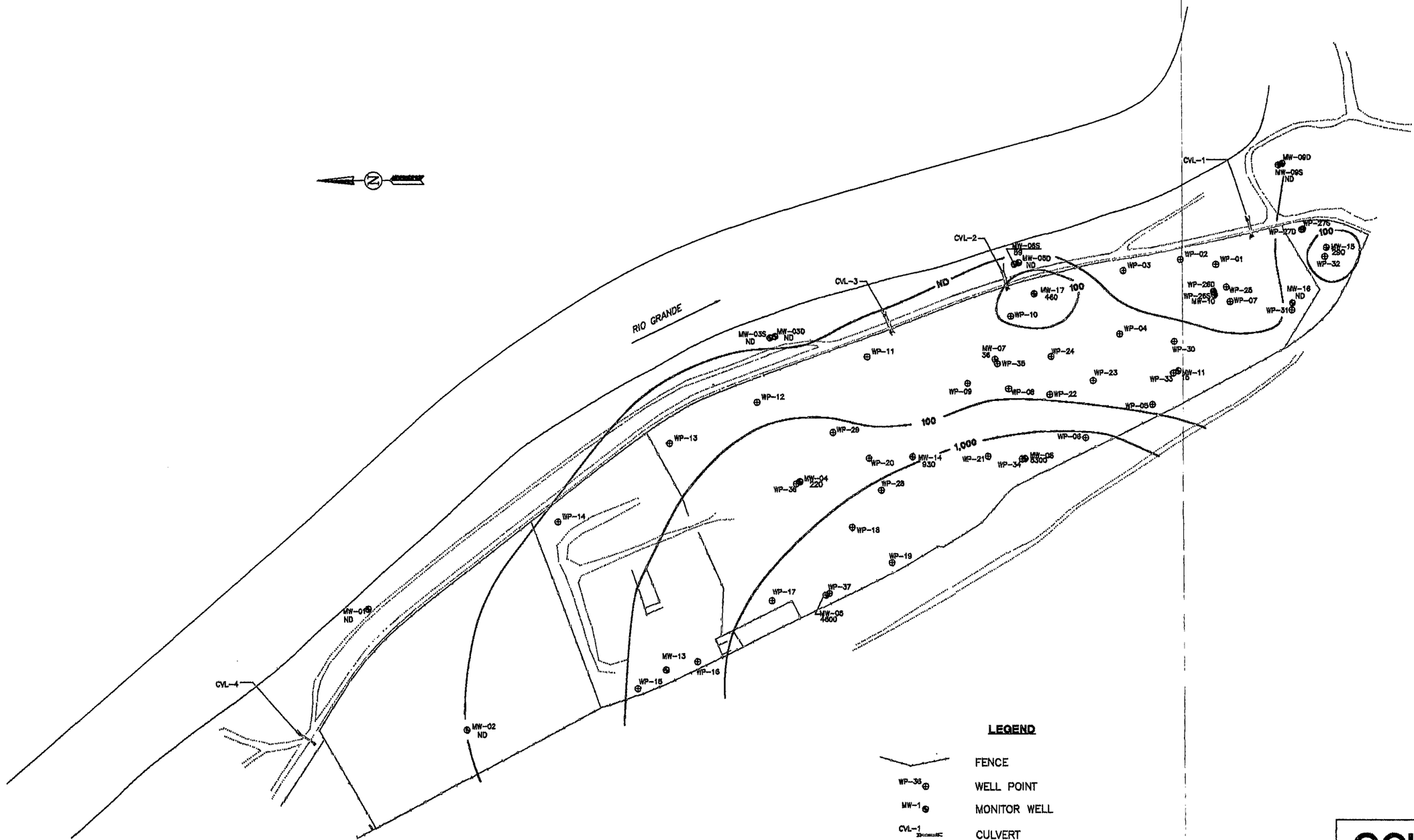
0 215'

SCALE: 1" = 215'

GCL

FIQURE 14c
BENZENE CONCENTRATION CONTOUR MAP IN 6TH QUARTER (MARCH 1995) BRICKLAND REFINERY SITE

CLIENT: REXENE	
DATE: 5/22/96	
AUTHORED BY: BR/RWH	
DRAWN BY: RG	
CHECKED BY: MWS	
DWG. NO.: \REXENE\BENM95.DWG	



LEGEND

	FENCE
WP-36	WELL POINT
MW-1	MONITOR WELL
CVL-1	CULVERT
3725.66	BENZENE CONCENTRATION ($\mu g/L$)
(ND)	CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
	BENZENE CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
ND	NOT DETECTED (<0.5 $\mu g/L$)
NS	NOT SAMPLED

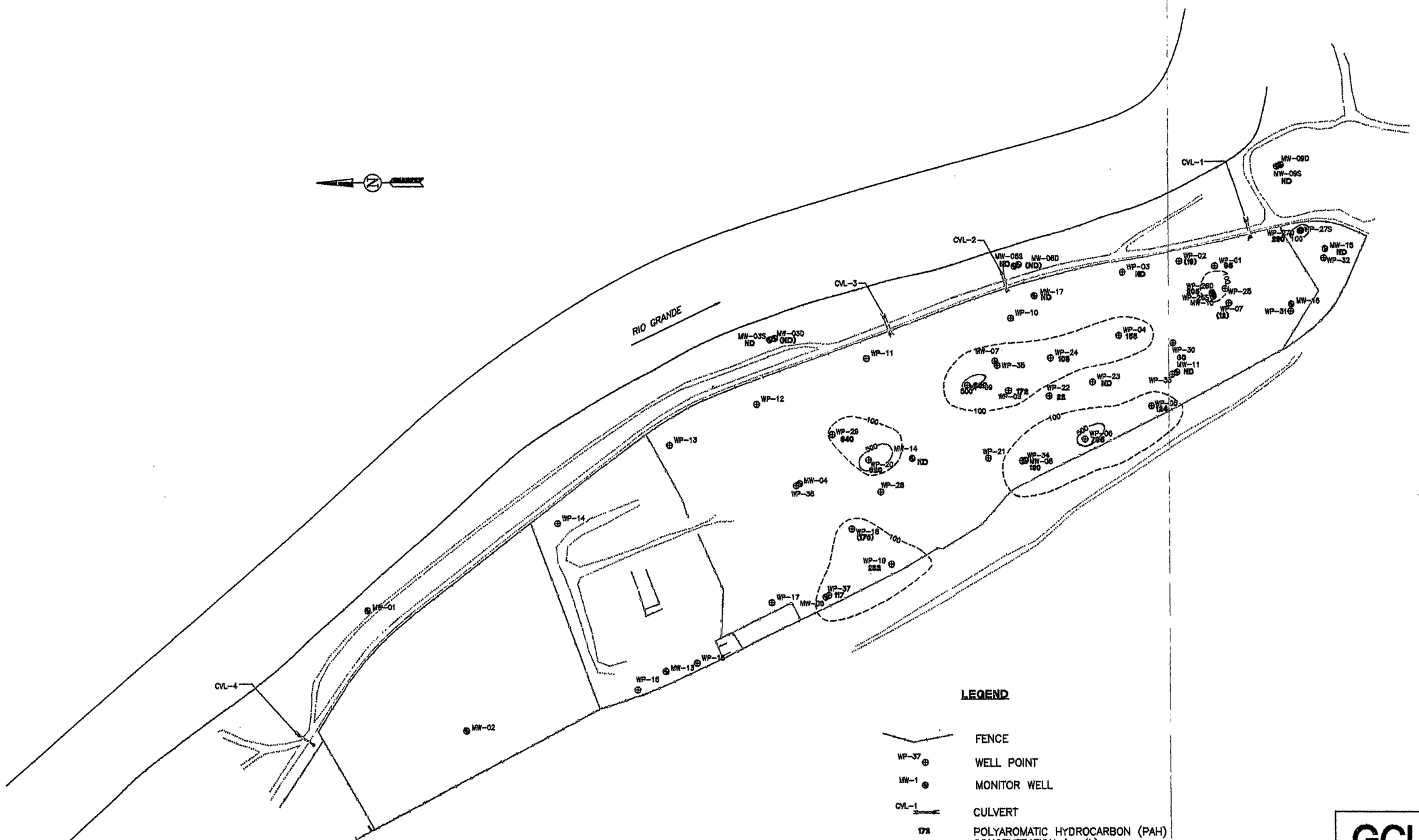
0 215'

SCALE: 1" = 215'

GCL

FIGURE 14d
BENZENE CONCENTRATION CONTOUR MAP IN 6TH QUARTER (DECEMBER 94) BRICKLAND REFINERY SITE

CLIENT:	REXENE
DATE:	5/21/96
AUTHORED BY:	BR/RWH
DRAWN BY:	RG
CHECKED BY:	MWS
DWG. NO.:	\REXENE\BEND94.DWG



LEGEND

- FENCE
- WP-37 — WELL POINT
- MW-1 — MONITOR WELL
- CVL-1 — CULVERT
- 172 — POLYAROMATIC HYDROCARBON (PAH) CONCENTRATION (µg/L)
- ND — NOT DETECTED (<10 µg/L)
- (976) — CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
- PAH CONCENTRATION CONTOUR (DASHED WHERE INFERRED)

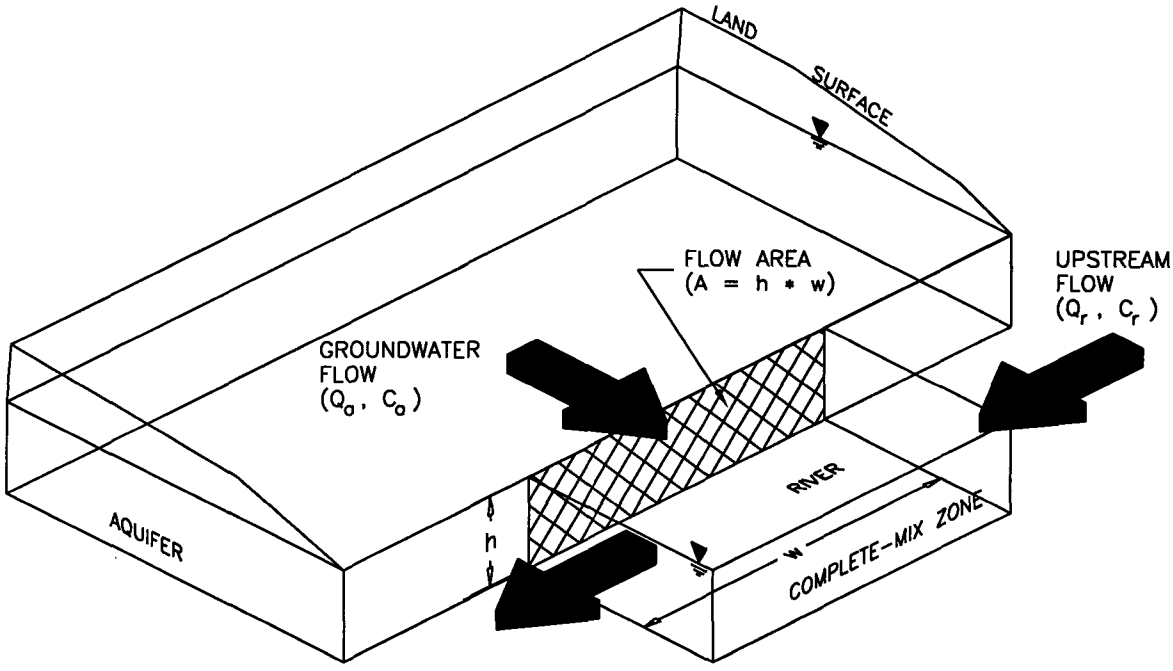
0 215'

SCALE: 1" = 215'

GCL

FIGURE 18
POLYAROMATIC HYDROCARBON (PAH) CONCENTRATION CONTOUR MAP IN GROUNDWATER
5TH QUARTER (MARCH 1995)
BRICKLAND REFINERY SITE

CLIENT:	REXENE
DATE:	9/13/95
AUTHORED BY:	RR
DRAWN BY:	MP
CHECKED BY:	TS/BAL
DWG. NO.:	\REXENE\1STQTR95.DWG



MIXING ZONE MODEL EQUATION $C_t Q_t = C_r Q_r + C_a Q_a$

WHERE C_t = DOWNSTREAM CONCENTRATION IN RIVER
Q_t = DOWNSTREAM RIVER FLOW RATE
C_r = UPSTREAM CONCENTRATION IN RIVER
Q_r = UPSTREAM RIVER FLOW RATE
C_a = CONCENTRATION IN GROUNDWATER
Q_a = GROUNDWATER FLOW RATE

TO FIND DOWNSTREAM CONCENTRATION, (C_t) ASSUME $C_r = 0$, $Q_t = Q_r + Q_a$, AND THEN SOLVE FOT C_t .

$$C_t = \frac{C_a Q_a}{Q_r + Q_a}$$ NO. 1

TO FIND THE GROUNDWATER FLOW RATE
USE THE FOLLOWING EQUATION

$$Q = K\ i\ A$$ NO. 2

WHERE Q = GROUNDWATER FLOW RATE
K = AQUIFER HYDRAULIC CONDUCTIVITY
i = HYDRAULIC GRADIENT
A = AREA OF FLOW PERPENDICULAR TO FLOW DIRECTION

NOTE : RIVER FLOW RATES TAKEN FROM UPSTREAM GAGING STATION

GCL

CLIENT: REXENE	
DATE: 9/13/95	REV. NO.: 0
AUTHOR: BAL	DRAWN BY: MP
CK'D BY: BAL	FILE: MXNGZN

FIGURE 16
MIXING ZONE MODEL

Appendix A

Property Owners in Vicinity of the Site

Included are survey abstracts for the Texas properties.
Detailed information for the New Mexico properties to follow.

SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X134-999-0000-6100
9 REFERENCE
JOHN WHITAKER SURV 134 ABST 2715
TR 3-D (79.5188 ACRES) CARRIED
WITH TOWN & COUNTRY
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | Y9-REFERENCE
REF-REFERENCE ACCT ONLY
LAND AREA- 79.518AC | EXEMPT -R REFER ACCT

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-0100
U S RECLAMATION SERVICE
109 N OREGON ST
EL PASO TX 79901-1148
ANDREW STOUT SURV 135 ABST 2695
TR 1 (5.562 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 R-4 | Z9-U S A
R-RESIDENTIAL
LAND AREA- 5.562AC | TOPO -ROLLING
UTILITY-ELECTRICITY
EXEMPT -G GOVT ENTITY | $24,228-TV
$24,228-LV

X135-999-0000-0500
R G E P & S F RAILROAD CO
310 SANTA FE BLDG
AMARILLO TX 79110-6646
*RAILROAD
ANDREW STOUT SURV 135 ABST 2695
TR 2 (2.227 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | Y9-REFERENCE
REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

X135-999-0000-0900
PEOPLE OF THE STATE OF TEXAS
ANDREW STOUT SURV 135 ABST 2695
TR 3 (1.781 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 R-4 | Z7-PEOPLE OF STATE OF TX
C-COMMERCIAL
LAND AREA- 1.781AC | ROAD TY-NEIGHBORHOOD
EXEMPT -G GOVT ENTITY

TRW·REDI Nationwide 1-800-345-7334
Copyright 1996 All Rights Reserved
PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS | DIST | ZONE | LAND USE / PROPERTY CLASS | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE | TOTAL VALUE-TV / LAND VALUE-LV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-1300
9 REFERENCE
ANDREW STOUT SURV 135 ABST 2695
TR 4 (0.23 ACRE) CARRIED WITH 5
TO 8 OF 1 BUENA VISTA
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | Y9-REFERENCE
REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

X135-999-0000-1700
9 REFERENCE
ANDREW STOUT SURV 135 ABST 2695
TR 5 (35.576 ACRES) CARRIED WITH
BUENA VISTA
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | Y9-REFERENCE
REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

X135-999-0000-2100
SANDERSON ANTIS U
226 MARICOPA DR
EL PASO TX 79912-4402
ANDREW STOUT SURV 135 ABST 2695
TR 6 (0.265 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | R-4 | C1-RES VAC LOT/TR < 5AC
R-RESIDENTIAL
LAND AREA- .265AC | TOPO -ARROYO
ROAD TY-PAVED | $795-TV
$795-LV

X135-999-0000-2500
VILLALOBOS DAVID & MIGUEL
VILLALOBOS PHIL
815 N PIEDRAS ST
EL PASO TX 79903-4007
*157 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 7-A (0.782 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

34 | R-4 | C1-RES VAC LOT/TR < 5AC
R-RESIDENTIAL
LAND AREA- .782AC | FOUND -CONCRETE SLAB
TOPO -HIGH
ROAD TY-DIRT
UTILITY-ELEC GAS SEPT | 01/79
963-0350 | $2,346-TV
$2,346-LV

TRW·REDI Nationwide 1-800-345-7334 Copyright 1996 All Rights Reserved

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-2900 | 34 | R-4

VILLALOBOS DAVID & MIGUEL
VILLALOBOS PHIL
315 N PIEDRAS ST
EL PASO TX 79903-4007
ANDREW STOUT SURV 135 ABST 2695
TR 7-B (0.198 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C1-RES VAC LOT/TR < 5AC
R-RESIDENTIAL
LAND AREA- .198AC

TOPO -HIGH
ROAD TY-DIRT
UTILITY-ELEC GAS SEPT

01/79
963-0350

$594-TV
$594-LV

X135-999-0000-3300 | 34 | R-4

CARMONA VICENTE & REBECCA F
335 NOPAL AVE
EL PASO TX 79922-1508
*335 NOPAL AVE
ANDREW STOUT SURV 135 ABST 2695
TR 8 (0.143 ACRE) & TR 9-B (0.379 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
003-RES CLASS 003
R-RESIDENTIAL
LAND AREA- 1,355SF
LAND AREA- .522AC
MAIN BLDG- 1,355SF
ADJ BLDG- 1,355SF
EX FRPL 3 4 7 1UN

FOUND -CONCRETE SLAB
EXT FIN-STUCCO/MASONRY
RF TYPE-GABLE
RF MAT -COMPOSITION SHG
HEATING-GAS STOVE
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
EXEMPT -HD HS & SS DIS

BATHS - 2.0
FIREPL - 1

$24,471-TV
$1,566-LV
$22,905-IV

X135-999-0000-3700 | 34

HERNANDEZ PILAR
329 SANTA ROSA ST
EL PASO TX 79922-1512
*329 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 9-A (0.590 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 543SF
LAND AREA- .590AC
MAIN BLDG- 543SF
ADJ BLDG- 543SF

FOUND -PIER AND BEAM
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -COMPOSITION SHG
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
TOPO -LEVEL
ROAD TY-PAVED
EXEMPT -H HOMESTEAD

BATHS - 1.0

12/80
1135-0722
PRIOR:
04/04/77
779-0301

$19,992-TV
$1,770-LV
$18,222-IV

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 1,008SF
LAND AREA- .590AC
MAIN BLDG- 936SF
ADJ BLDG- 936SF
COVERED PATIO 290SF

FOUND -PIER AND BEAM
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -COMPOSITION SHG
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
TOPO -LEVEL
ROAD TY-PAVED
EXEMPT -H HOMESTEAD

CARD NO- 2
BATHS - 1.0

$5,261-BV

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PARCEL NUMBER | DIST | ZONE | LAND USE | BUILDING FEATURES | STATISTICAL | SALE PRICE | TOTAL VALUE-TV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-3700
HERNANDEZ PILAR
*329 CALLE SANTA ROSA ST

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 1,270SF
LAND AREA- .590AC
MAIN BLDG- 1,222SF
ADJ BLDG- 1,222SF
COVERED PATIO 195SF

FOUND -PIER AND BEAM
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -COMPOSITION SHG
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
TOPO -LEVEL
ROAD TY-PAVED
EXEMPT -H HOMESTEAD

CARD NO- 3 *CONTINUED*
BATHS - 1.0

$19,992-TV
$1,770-LV
$10,104-BV

X135-999-0000-3900 34
9 REFERENCE
ANDREW STOUT SURV 135 ABST 2695
TR 9-B (0.379 ACRE) CARRIED WITH
8
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

X135-999-0000-4100 34
FIERRO SEVERO & ROSARIO LE
CABRALEZ BENJAMIN
163 COURCHESNE RD
EL PASO TX 79922-1505
*335 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 10 (.189 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 737SF
LAND AREA- .189AC
MAIN BLDG- 499SF
ADJ BLDG- 499SF
STORAGE 476SF

FOUND -PIER AND BEAM
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -ROLL COMPOSITN
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -CONCRETE
FLOOR -TILE
TOPO -LEVEL

BATHS - 1.0 06/10/85 1574-1431

$7,790-TV
$567-LV
$7,223-IV

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 796SF
LAND AREA- .189AC
MAIN BLDG- 635SF
ADJ BLDG- 635SF
OPEN PORCH 161SF

FOUND -PIER AND BEAM
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -ROLL COMPOSITN
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -CONCRETE
FLOOR -TILE
TOPO -LEVEL

CARD NO- 2
BATHS - 1.0

$3,364-BV

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-4500 34 R-4
EL PASO ELECTRIC CO

J3-UTILS/ELECTRIC CO

ROAD TY-NEIGHBORHOOD

$6,795-TV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC TAX DISTRICTS | DIST ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-4500 34 R-4
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
* NOPAL AVE
ANDREW STOUT SURV 135 ABST 2695
TR 11 (3.120 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

J3-UTILS/ELECTRIC CO
C-COMMERCIAL
LAND AREA- 3.120AC

ROAD TY-NEIGHBORHOOD

$6,795-TV
$6,795-LV

X135-999-0000-4900 34 R-4
RAMIREZ DANIEL & ADELINA R
361 SANTA ROSA ST
EL PASO TX 79922-1512
*361 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 12 (0.213 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
007+-RES CLASS 007+
R-RESIDENTIAL
LAND AREA- 2,206SF
LAND AREA- .213AC
MAIN BLDG- 1,641SF
ADJ BLDG- 1,641SF
CARPORT 1,014SF
OPEN PORCH 189SF
OPEN PORCH 168SF

FOUND -CONCRETE SLAB
EXT FIN-STUCCO/MASONRY
RF TYPE-FLAT
RF MAT -ROLL COMPOSITN
HEATING-GAS STOVE
COOLING-EVAPORATIVE-AIR
INT FIN-SHEET ROCK
FLOOR -ASPHALT TILE
TOPO -SLOPE
ROAD TY-DIRT
UTILITY-ELEC GAS SEPT
EXEMPT -HZ HS/65+/TX D

YR BLT -1955 06/07/61
BATHS - 2.0 D - -
FIREPL - 1

$38,609-TV
$639-LV
$37,970-IV

X135-999-0000-5300 34 R-4
ROBLES DANIEL F
365 SANTA ROSA ST
EL PASO TX 79922-1512
PHONE #(915)-581-6156
*365 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 13-A (0.510 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 1,112SF
LAND AREA- .510AC
MAIN BLDG- 1,002SF
ADJ BLDG- 1,002SF
OPEN PORCH 110SF

FOUND -CONCRETE SLAB
EXT FIN-ADOBE
EXT FIN-STUCCO SIDING
RF TYPE-FLAT
RF MAT -ROLL COMPOSITN
HEATING-GAS STOVE
COOLING-EVAPORATIVE-AIR
INT FIN-SHEET ROCK
FLOOR -TILE
TOPO -SLOPE
ROAD TY-DIRT
UTILITY-ELEC GAS SEPT
EXEMPT -H HOMESTEAD

YR BLT -1940
BATHS - 1.0

$8,708-TV
$1,530-LV
$7,178-IV

X135-999-0000-5700 34 R-4
ANDRADE EDUARDO & LORENZO
4227 TYLER ST
RIVERSIDE CA 92503-3405
*369 CALLE SANTA ROSA ST
ANDREW STOUT SURV 135 ABST 2695
TR 13-B (0.099 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

A1-RES SINGLE FAMILY
002--CLS 002- NO EVAP
R-RESIDENTIAL
LAND AREA- 901SF
LAND AREA- .099AC
MAIN BLDG- 789SF
ADJ BLDG- 789SF
EX FRPL 1 2 6 1UN
OPEN PORCH 126SF
OPEN PORCH 81SF

FOUND -PIER AND BEAM
EXT FIN-STUCCO SIDING
RF TYPE-GABLE
RF MAT -ROLL COMPOSITN
HEATING-GAS STOVE
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
TOPO -SLOPE
ROAD TY-DIRT
UTILITY-ELEC GAS SEPT

YR BLT -1955 10/07/92
BATHS - 1.0 Q - -
FIREPL - 1 2484-0966
PRIOR:
10/23/91
H - -
2484-0968

$4,847-TV
$297-LV
$4,550-IV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC TAX DISTRICTS | DIST ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-6100 34 R-4
CATHOLIC DIOCESE OF EL PASO
499 SAINT MATTHEWS ST
EL PASO TX 79907-6214

Z2-CHURCHES
003--RES CLASS 003-
R-RESIDENTIAL

FOUND -CONCRETE SLAB
EXT FIN-STUCCO/MASONRY
RF TYPE-GABLE

BATHS - 1.0 09/83
1382-0739

$16,608-TV
$603-LV
$16,005-IV

SCC-EL PASO COMM COLLEGE OPEN PORCH 81SF ROAD TY-DIRT
SHO-THOMASON GEN HOSP UTILITY-ELEC GAS SEPT

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST ZONE — TAX DISTRICTS | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-6100 34 R-4
CATHOLIC DIOCESE OF EL PASO
499 SAINT MATTHEWS ST
EL PASO TX 79907-4214
*3400 ZAPAL AVE
ANDREW STOUT SURV 135 ABST 2695
TR 14 (0.201 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z2-CHURCHES
003--RES CLASS 003-
R-RESIDENTIAL
LAND AREA- 1,624SF
LAND AREA- .201AC
MAIN BLDG- 700SF
ADJ BLDG- 700SF
OPEN PORCH 84SF
CANOPY 280SF
CANOPY 560SF

FOUND -CONCRETE SLAB
EXT FIN-STUCCO/MASONRY
RF TYPE-GABLE
RF MAT -COMPOSITION SHG
HEATING-SPACE HEATING
COOLING-EVAPORATIVE-AIR
INT FIN-PLASTER
FLOOR -TILE
TOPO -LEVEL
UTILITY-ELEC GAS WATER
EXEMPT -P PARSN/CHRCH
BATHS - 1.0

09/83
1382-0739

$16,608-TV
$603-LV
$16,005-IV

X135-999-0000-6600 34 R-4
CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
ANDREW STOUT SURV 135 ABST 2695
PT OF TR 15 (3.215 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- 3.215AC

ROAD TY-NEIGHBORHOOD
EXEMPT -G GOVT ENTITY

02/77
758-0527

X135-999-0000-6900 34
9 REFERENCE
ANDREW STOUT SURV 135 ABST 2695
TR 16 (4.1112 ACRES) CARRIED WITH
BUENA VISTA
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY
LAND AREA- 4.111AC

EXEMPT -R REFER ACCT

X135-999-0000-7300 34
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
ANDREW STOUT SURV 135 ABST 2695
TR 17 (0.815 ACRE) ACREAGE
CARRIED WITH TR 3 IN W C MORGAN
SUR 237
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY
LAND AREA- .815AC

EXEMPT -R REFER ACCT

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST ZONE — TAX DISTRICTS | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST — ZONE — TAX DISTRICTS | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-7700 — 34

9 REFERENCE
ANDREW STOUT SURV 135 ABST 2695
TR 18 (1.138 ACRES) CARRIED WITH
BUENA VISTA
IEP-EL PASCO I.S.D.
CEP-CITY OF E . PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

X135-999-0000-8100 — 34 — R-4

CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
ANDREW STOUT SURV 135 ABST 2695
TR 19 2.5579 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- 2.557AC

ROAD TY-NEIGHBORHOOD
EXEMPT -G GOVT ENTITY

06/78
902-0438

X135-999-0000-8500 — 34

EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
ANDREW STOUT SURV 135 ABST 2695
TR 20 (1.328 ACRES) ACREAGE
CARRIED WITH TR 3 W C MORGAN SUR
237
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY
LAND AREA- 1.328AC

EXEMPT -R REFER ACCT

X135-999-0000-8900 — 34 — R-4

COSTA LOURDES F
2569 V F W ST
EL PASO TX 79922-6646
ANDREW STOUT SURV 135 ABST 2695
TR 21 (0.942 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C1-RES VAC LOT, TR < 5AC
R-RESIDENTIAL
LAND AREA- .942AC

TOPO -ROLLING
UTILITY-ELECTRICITY

$2,826-TV
$2,826-LV

GRID	PARCEL NUMBER	GRID	PARCEL NUMBER
B02	X132-999-0000-0120	K02	X134-999-0000-0400
C02	X132-999-0000-0150	L02	X134-999-0000-6100
D02	X132-999-0000-0161	M02	X135-999-0000-1300
E02	X132-999-0000-0200	N02	X135-999-0000-2900

EL PASO (CA
TRW·R
PARCEL NUMB
OWNE
MA
*PROPERTY L
LEG
X146-V
X146-000-00
COLE
60
EL
*7874
W F
ONL
X146-000-00
GRAY
ST
AN
*171
WF
3-B
X146-000-00
JOHNS
C/O
586
EL
PHONE #(91
*161
W F
3-B
EL PASO (CAD
GRID PARCEL
B03 X135-99
C03 X140-99
D03 X140-99
E03 X140-99

PARCEL NUMBER / OWNERS NAME / MAILING ADDR / *PROPERTY LOCATION / LEGAL DESC | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X135-ANDREW STOUT SURV 135 ABST 2695

X135-999-0000-9300 | 34 | R-4 | C1-RES VAC LOT/TR < 5AC | TOPO -ROLLING | $315-TV / $315-LV
COSTA LOURDES F
2569 V F W ST
EL PASO TX 79922-6646
ANDREW STOUT SURV 135 ABST 2695
TR 22 (0.105 ACRE)
R-RESIDENTIAL | UTILITY-ELECTRICITY
LAND AREA- .105AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X140-AL WALTON SURV 140 ABST 2714

X140-999-0000-0100 | 34 | M-2 | Z9-U S A | EXEMPT -G GOVT ENTITY
U S RECLAMATION SERVICE
109 N OREGON ST
EL PASO TX 79901-1148
AL WALTON SURV 140 ABST 2714 TR 1
(1.687 ACRES)
R-RESIDENTIAL
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X140-999-0000-1100 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
R G E P & S F RAILROAD CO
310 SANTA FE BLDG
AMARILLO TX 79110-6646
* RAILROAD
AL WALTON SURV 140 ABST 2714 TR 2
(1.623 ACRES)
REF-REFERENCE ACCT ONLY
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X140-999-0000-2100 | 34 | M-2 | Z7-PEOPLE OF STATE OF TX | ROAD TY-INTERSTATE HWY
PEOPLE OF THE STATE OF TEXAS
AL WALTON SURV 140 ABST 2714 TR 3
(1.683 ACRES)
C-COMMERCIAL | EXEMPT -G GOVT ENTITY
LAND AREA- 1.683AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE | TOTAL VALUE-TV / LAND VALUE-LV

TOTAL VALUE-TV
LAND VALUE-LV
PRV VALUE-IV
LDG VALUE-BV
RIC VALUE-AV

$26,357-TV
$4,762-LV
$21,595-IV

$871,200-TV
$871,200-LV

$6,600-TV
$6,600-LV

TOTAL VALUE-TV
LAND VALUE-LV
MPRV VALUE-IV
BLDG VALUE-BV
GRIC VALU -AV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X008-F NEVE SURV 08 ABST 162

X008-999-000B-9100
9 REFERENCE
F NEVE SURV 8 ABST #162 TR 6-C (0.943 ACRE) CARRIED WITH UNPLATTED PORTION
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
DIST: 34
LAND USE: Y9-REFERENCE
PROPERTY CLASS: REF-REFERENCE ACCT ONLY
BUILDING FEATURES / EXEMPTIONS: EXEMPT -R REFER ACCT

X008-999-000B-9600
CITY-COUNTY HOSPITAL
PO BOX 20009
EL PASO TX 79998-0009
* ALAMEDA AVE
F NEVE SURV 8 ABST #162 (5.71 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
DIST: 34 ZONE: M-1
LAND USE: Z3-CHARITABLE INSTS
PROPERTY CLASS: C-COMMERCIAL
LAND AREA- 5.710AC
BUILDING FEATURES / EXEMPTIONS: ROAD TY-INTERSTATE HWY; EXEMPT -C CHARIT INST
TOTAL VALUE-TV: $746,184-TV
LAND VALUE-LV: $746,184-LV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0100
A S A R C O INC
C/O FERREL JOHN L CO
PO BOX 26903
EL PASO TX 79926-6903
*3125 W PAISANO DR
BARKER SURV 10 ABST 7 1 & 2-A & 12-A & 20-A & 24 & 25 (718.6450 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
DIST: 34
LAND USE: F2-INDUSTRIAL BLDGS
PROPERTY CLASS: I-INDUSTRIAL
LAND AREA- 718.645AC
BUILDING FEATURES / EXEMPTIONS: BASEMNT-UNFINISHED BSMT
TOTAL VALUE-TV: $9,018,010-TV
LAND VALUE-LV: $4,753,010-LV
IMPRV VALUE-IV: $4,265,000-IV

X010-999-0000-0150
A S A R C O INC
C/O THE LEAVELL CO
4401 N MESA ST #200
EL PASO TX 79902-1148
BARKER SURV 10 ABST #7 1 & 2-A & 12-A & 20-A & 24 & 25 (TMPS ONLY)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
DIST: 34
LAND USE: Y9-REFERENCE
PROPERTY CLASS: REF-REFERENCE ACCT ONLY
BUILDING FEATURES / EXEMPTIONS: EXEMPT -R REFER ACCT
TOTAL VALUE-TV: $3,764,782-TV
LAND VALUE-LV: $3,764,782-IV

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010 BARKER SURV 10 ABST 07

[redacted]

SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

TOTAL VALUE-TV
LAND VALUE-LV
IMPRV VALUE-IV
BLDG VALUE-BV
AGRIC VALUE-AV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0200 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
9 REFERENCE
REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 2-A
(390.928 ACRES) CARRIED WITH 1
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

$51,318-TV
$51,318-LV

X010-999-0000-0205 | 34 | M-3 | Z2-CHURCHES
CATHOLIC DIOCESE OF EL PASO
499 SAINT MATTHEWS ST
EL PASO TX 79907-4214
* EXECUTIVE CENTER
C-COMMERCIAL
LAND AREA- .089AC
BARKER SURV 10 ABST #7 PT OF TR
2-C (0.089 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
TOPO -LEVEL
ROAD TY-NEIGHBORHOOD
UTILITY-ELECTRICITY
EXEMPT -X CEMETARIES

$211,086-TV
$211,086-LV
$387-TV
$387-LV

X010-999-0000-0210 | 34 | M-3 | Z2-CHURCHES
METZGER S M
C/O CATHOLIC DIOCESE OF EL PASO
499 SAINT MATTHEWS ST
EL PASO TX 79907-4214
* EXECUTIVE CENTER
C-COMMERCIAL
LAND AREA- .640AC
BARKER SURV 10 ABST #7 TR 2-B
(0.640 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
TOPO -LEVEL
ROAD TY-NEIGHBORHOOD
UTILITY-ELECTRICITY
EXEMPT -P PARSN/CHRCH
06/70
300-0009

$53,156-TV
$53,156-LV
$2,787-TV
$2,787-LV

X010-999-0000-0220 | 34 | M-3 | C2-COMMERCIAL VACANT LOT
A S A R C O INC
C/O PO BOX 26903
EL PASO TX 79926-6903
* EXECUTIVE CENTER
C-COMMERCIAL
LAND AREA- .283AC
BARKER SURV 10 ABST #7 TR 2-C
(0.283 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
ROAD TY-NEIGHBORHOOD
08/76
1223-1506

$9,245-TV
$9,245-LV

TRW·REDI Nationwide 1-800-345-7334

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0300 | 34 | M-1 | C2-COMMERCIAL VACANT LOT / C-COMMERCIAL / LAND AREA- 17.832AC | TOPO -ROLLING / ROAD TY-NEIGHBORHOOD / UTILITY-ELECTRICITY | 06/81 / 1182-1473 | $116,518-TV / $116,518-LV

LIVINGSTON JOHN H
PO BOX 1180
SUNLAND PARK NM 88063-1180
* INTERSTATE 10
BARKER SURV #10 TR 3 (17.8326 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0310 | 34 | M-1 | C2-COMMERCIAL VACANT LOT / C-COMMERCIAL / LAND AREA- 5.694AC | TOPO -ROLLING / ROAD TY-NEIGHBORHOOD / UTILITY-ELECTRICITY | 08/02/89 / F - - / 2082-0848 / PRIOR: 10/79 1027-0538 | $39,686-TV / $39,686-LV

MBANK
C/O BATKIN MIKE
PO BOX 1072
EL PASO TX 79958-0001
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 3-A
(24.804 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0400 | 34 | M-3 | C2-COMMERCIAL VACANT LOT / C-COMMERCIAL / LAND AREA- 6.909AC | TOPO -ROLLING / ROAD TY-NEIGHBORHOOD / UTILITY-ELECTRICITY | 06/81 / 1182-1473 / PRIOR: 10/04/79 1027-0541 | $120,387-TV / $120,387-LV

LIVINGSTON JOHN H
PO BOX 1180
SUNLAND PARK NM 88063-1180
* INTERSTATE 10
BARKER SURV #10 TR 4 (6.9093 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0500 | 34 | M-3 | Z6-EL PASO PUBLIC SVC BD / C-COMMERCIAL / LAND AREA- 23.065AC | TOPO -ROUGH / ROAD TY-INTERSTATE HWY / UTILITY-ELEC GAS WATER / EXEMPT -G GOVT ENTITY | 08/12/83

EL PASO PUBLIC SERVICE BOARD
320 S CAMPBELL ST
EL PASO TX 79901-2840
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 5
23.0658 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV

SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0550 | 34 | M-3 | C2-COMMERCIAL VACANT LOT | ROAD TY-BUSINESS CLUSTR | 03/10/88 | $432,511-TV
JOBE CONCRETE PRODUCTS INC | C-COMMERCIAL | | W -AB-B | $432,511-LV
1 MCKELLIGON CANYON RD | LAND AREA- 99.290AC | | 1901-0764
EL PASO TX 79930-2634 | | | PRIOR:
* INTERSTATE 10 | | | $62,500
BARKER SURV 10 ABST #7 | | | 03/31/87
5-A(10.4272AC)&12-B(9.594AC)& | | | W -D -
HARRISONSURV54(301.34AC)& | | | 1806-0170
CHRISTIANSCHERTZSUR106(111.15AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0600 | 34 | M-3 | Z6-EL PASO PUBLIC SVC BD | TOPO -LEVEL | 08/12/83
EL PASO PUBLIC SERVICE BOARD | C-COMMERCIAL | ROAD TY-INTERSTATE HWY
320 S CAMPBELL ST | LAND AREA- 33.843AC | UTILITY-NONE
EL PASO TX 79901-2840 | | EXEMPT -G GOVT ENTITY
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 6
(33.8435 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0601 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT | 07/01/85 | $141,423-TV
GENERAL TRK LEASING & RENTAL | REF-REFERENCE ACCT ONLY | | $141,423-IV
777 EXECUTIVE CENTER BLVD
EL PASO TX 79922
BARKER SURV #10 IMPS ONLY ON TR 6
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-0603 | 34 | Z6-EL PASO PUBLIC SVC BD | EXEMPT -G GOVT ENTITY | 07/14/87 | $67,591-TV
EL PASO PUBLIC SERVICE BOARD | C-COMMERCIAL | | PRIOR: | $67,591-IV
320 S CAMPBELL ST | LAND AREA- 4.218AC | | 12/24/85
EL PASO TX 79901-2840 | | |
* INTERSTATE 10
BARKER SURV 10 ABST #7 4.2185
ACRES OUT OF TR 6 4.2185 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER / OWNERS NAME | DIST | ZONE | LAND USE / PROPERTY CLASS | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE | TOTAL VALUE-TV / LAND VALUE-LV

SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST — ZONE — LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES — BUILDING FEATURES / EXEMPTIONS — STATISTICAL DATA — SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE — TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0700 — 34 — M-3
COCA ERNEST & BERTHA
8761 ALAMEDA AVE
EL PASO TX 79907-6233
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 7-A
(4.6586 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C2-COMMERCIAL VACANT LOT
C-COMMERCIAL
LAND AREA- 4.658AC

TOPO -ROLLING
ROAD TY-BUSINESS CLUSTR
UTILITY-ELECTRICITY

12/10/91
W - -
2405-0429
PRIOR:
$90,000
11/30/89
*P-BF-F
2123-1977

$89,288-TV
$89,288-LV

X010-999-0000-0705 — 34 — M-3
CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 7-A-1
(0.0164 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- .016AC

TOPO -ROLLING
ROAD TY-BUSINESS CLUSTR
UTILITY-ELECTRICITY
EXEMPT -G GOVT ENTITY

11/26/90
Q - -
2246-1399
PRIOR:
11/25/90

$314-TV
$314-LV

X010-999-0000-0710 — 34 — M-3
CATHOLIC DIOCESE OF EL PASO
499 SAINT MATTHEWS ST
EL PASO TX 79907-4214
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 7-B
(6.390 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z3-CHARITABLE INSTS
C-COMMERCIAL
LAND AREA- 6.390AC

ROAD TY-INTERSTATE HWY
EXEMPT -C CHARIT INST

X010-999-0000-0800 — 34 — R-3
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 8
(3.935 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

J3-UTILS/ELECTRIC CO
C-COMMERCIAL
LAND AREA- 3.935AC

ROAD TY-NEIGHBORHOOD

$34,281-TV
$34,281-LV

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS — DIST — ZONE — LAND USE / PROPERTY CLASS — BUILDING FEATURES / EXEMPTIONS — STATISTICAL DATA — SALE PRICE / SALE DATE — TOTAL VALUE-TV / LAND VALUE-LV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC · TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-0900 | 34 | Y9-REFERENCE / REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

9 REFERENCE
BARKER SURV 10 ABST #7 TR 9
(11.634 ACRES) & 10 (6.212 ACRES)
& 11 (14.249 ACRES) CAR- RIED
WITH EXECUTIVE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1200 | 34 | Y9-REFERENCE / REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

9 REFERENCE
BARKER SURV 10 ABST #7 TR 12-A
(5.552 ACRES) CARRIED WITH 1
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1211 | 34 | M-3 | F1-COMM OTHR THAN F2-F9 / C-COMMERCIAL | BASEMNT-UNFINISHED BSMT / ROAD TY-BUSINESS CLUSTR | 03/19/93 | $7,690-TV / $7,690-IV

METRO MOBILE CTS PF EL PASO
C/O BRENNAN PATRICK J
645 EXECUTIVE CENTER BLVD
EL PASO TX 79922-1602
*645 EXECUTIVE CENTER BLVD
BARKER SURV 10 ABST #7 IMPS ONLY
ON TR 12-B
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

LAND AREA- 560SF
MAIN BLDG- 560SF
ADJ BLDG- 560SF
YRD PAV BLK TOP 7,532SF
SEC FENC BARBED 1,824SF
SEC FENC MASON 255SF

X010-999-0000-1300 | 34 | M-3 | C2-COMMERCIAL VACANT LOT / C-COMMERCIAL | ROAD TY-BUSINESS CLUSTR | $24,584-TV / $24,584-LV

KNAPP R E & R A
13781 HORIZON BLVD
EL PASO TX 79927-5802
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 13
(0.75 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

LAND AREA- .750AC

X010-999-0000-1400 | 34 | Y9-REFERENCE / REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT

9 REFERENCE
BARKER SURV 10 ABST #7 TR 14 (1
ACRE) CARRIED WITH 4 & E 20.82 FT
OF 5 OF A EXECUTIVE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC · TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV

X010-999-0000-1400 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 14 (1
ACRE) CARRIED WITH 4 & E 20.82 FT
OF 5 OF A EXECUTIVE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

EL PASO (CAD), TX. G13

PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME PROPERTY CLASS EXEMPTIONS DATA SALE DATE LAND VALUE-LV
MAILING ADDRESS PROPERTY TYPE D -S -F CDS IMPRV VALUE-IV
*PROPERTY LOCATION LAND AREA BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS EXTRA FEATURES AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-1500 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 15-A
(0.349 ACRE) CARRIED WITH 1 OF A
EXECUTIVE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1510 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 15-B
(1.157 ACRES) CARRIED WITH E O
DRYER SURV 132
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1520 34 Y9-REFERENCE EXEMPT -R REFER ACCT 08/30/79
9 REFERENCE REF-REFERENCE ACCT ONLY PRIOR:
BARKER SURV 10 ABST #7 TR 15-B-1 LAND AREA- .579AC 08/04/79
(0.579 ACRE) CARRIED WITH 2 & 3 1015-1416
OF A EXECUTIVE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1600 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 16
(8.515 ACRES) CARRIED WITH LA
CALAVERA SETTLEMENT
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1700 34 M-3 F1-COMM OTHR THAN F2-F9 EXT FIN-BRICK YR BLT -1975 10/07/92 $187,751-TV
HERNANDEZ JAMES ENDL-BAR LOUNGE FRAME RF TYPE-GABLE W - - $105,680-LV
533 EXECUTIVE CENTER BLVD C-COMMERCIAL RF MAT -ASPHALT SHINGLE 2495-2451 $82,071-IV
EL PASO TX 79902-1018 LAND AREA- 3,972SF HEATING-FORCED AIR PRIOR:
*533 EXECUTIVE CENTER LAND AREA- .828AC COOLING-EVAP COOLING $325,000
BARKER SURV 10 ABST #7 TR 17-A MAIN BLDG- 3,972SF INT FIN-FIN, OPEN AREA 04/01/87
(0.162 ACRE) & TR 17-E (0.645 ADJ BLDG- 3,972SF FLOOR -CARPETING *P-AU-
ACRE) & TR 17-K (0.021 ACRE) OFFICE AREA MTL 168SF FLOOR -COMPOSITN TILE 1785-0624
IEP-EL PASCO I.S.D. YRD PAV BLK TOP 15,876SF BASEMNT-UNFINISHED BSMT
CEP-CITY OF EL PASO SEC FENC MASON 180SF TOPO -SLOPE
SCC-EL PASO COMM COLLEGE SEC FENC MASON 168SF ROAD TY-BUSINESS CLUSTR
SHO-THOMASON GEN HOSP ANCILL BLDG BR 1,634SF UTILITY-ELEC GAS WATER

EL PASO (CAD), TX. H13

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PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME

X010-999-0000-1700 34 M-3 HERNANDEZ JAMES 533 EXECUTIVE CENTER BLVD EL PASO TX 79902-1018 *533 EXECUTIVE CENTER BARKER SURV 10 ABST #7 TR 17-A (0.162 ACRE) & TR 17-E (0.645 ACRE) & TR 17-K (0.021 ACRE) IEP-EL PASCO I.S.D. CEP-CITY OF EL PASO SCC-EL PASO COMM COLLEGE SHO-THOMASON GEN HOSP	F1-COMM OTHR THAN F2-F9 ENDL-BAR LOUNGE FRAME C-COMMERCIAL LAND AREA- 3,972SF LAND AREA- .828AC MAIN BLDG- 3,972SF ADJ BLDG- 3,972SF OFFICE AREA MTL 168SF YRD PAV BLK TOP 15,876SF SEC FENC MASON 180SF SEC FENC MASON 168SF ANCILL BLDG BR 1,634SF	EXT FIN-BRICK RF TYPE-GABLE RF MAT -ASPHALT SHINGLE HEATING-FORCED AIR COOLING-EVAP COOLING INT FIN-FIN, OPEN AREA FLOOR -CARPETING BASEMNT-UNFINISHED BSMT TOPO -SLOPE ROAD TY-BUSINESS CLUSTR UTILITY-ELEC GAS WATER	YR BLT -1975	10/07/92 W - - 2495-2451 PRIOR: $325,000 04/01/87 *P-AU- 1785-0624	$187,751-TV $105,680-LV $82,071-IV

EL PASO (CAD), TX. H13

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PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME PROPERTY CLASS EXEMPTIONS DATA SALE DATE LAND VALUE-LV
MAILING ADDRESS PROPERTY TYPE D -S -F CDS IMPRV VALUE-IV
*PROPERTY LOCATION LAND AREA BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS EXTRA FEATURES AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-1703 34 M-3 KOGER EQUITY OF TEXAS INC 3986 BOULEVARD CENTER DR # 101 JACKSONVILLE FL 32207-2838 *433 EXECUTIVE CENTER BARKER SURV 10 ABST 7 TR 17-B (0.341 ACRE)& W 49.51 FT OF LOT 7 BLK A EXECUTIVE PARK IEP-EL PASCO I.S.D. CEP-CITY OF EL PASO SCC-EL PASO COMM COLLEGE SHO-THOMASON GEN HOSP	F3-COMM OFFICE BUILDING PFCL-1&2 STRY DET MASONRY C-COMMERCIAL LAND AREA- 4,096SF LAND AREA- .511AC MAIN BLDG- 4,096SF ADJ BLDG- 4,096SF YRD PAV BLK TOP 8,468SF YRD PAV CONC 900SF RETAIN WALL ROC 900SF	EXT FIN-BRICK RF TYPE-FLAT RF MAT -TAR & GRAVEL HEATING-FORCED AIR COOLING-CENTRAL AIR INT FIN-FIN, DIV AREA FLOOR -CARPETING FLOOR -COMPOSITN TILE BASEMNT-UNFINISHED BSMT TOPO -LEVEL ROAD TY-BUSINESS CLUSTR UTILITY-ELEC GAS WATER	YR BLT -1972	12/31/90 W - - 2272-1266 PRIOR: 10/80 1121-0559	$141,322-TV $111,400-LV $29,922-IV
X010-999-0000-1705 34 9 REFERENCE BARKER SURV 10 ABST #7 TR 17-B-1 (0.186 ACRE) CARRIED WITH 17-F IEP-EL PASCO I.S.D. CEP-CITY OF EL PASO SCC-EL PASO COMM COLLEGE SHO-THOMASON GEN HOSP	V9-REFERENCE REF-REFERENCE ACCT ONLY		EXEMPT -R REFER ACCT			
X010-999-0000-1708 34 M-3 ASARCO INC C/O PLANT MANAGER PO BOX 1111 EL PASO TX 79999-1111 *447 EXECUTIVE CENTER BARKER SURV 10 ABST #7 17-C (0.3090 AC) & 17-D-1 (0.4634 AC) (0.7724 AC) IEP-EL PASCO I.S.D. CEP-CITY OF EL PASO SCC-EL PASO COMM COLLEGE SHO-THOMASON GEN HOSP	C2-COMMERCIAL VACANT LOT C-COMMERCIAL LAND AREA- .772AC	TOPO -LEVEL ROAD TY-BUSINESS CLUSTR UTILITY-ELEC GAS WATER		10/03/89 W - - 2104-0980	$87,486-TV $87,486-LV
X010-999-0000-1711 34 KNAPP R E & R A 13781 HORIZON BLVD EL PASO TX 79927-5602 *447 EXECUTIVE CENTER BARKER SURV 10 ABST #7 TR 17-D (4.6324 AC) IEP-EL PASCO I.S.D. CEP-CITY OF EL PASO SCC-EL PASO COMM COLLEGE SHO-THOMASON GEN HOSP	F3-COMM OFFICE BUILDING C-COMMERCIAL LAND AREA- 1,344SF LAND AREA- 4.632AC MAIN BLDG- 1,344SF ADJ BLDG- 1,344SF SEC FENC BARBED 12,600SF ANCILL BLDG WD 1,120SF	RF TYPE-GABLE RF MAT -COMPOS B-U REG HEATING-FORCED AIR COOLING-EVAP COOLING INT FIN-FIN, OPEN AREA FLOOR -COMPOSITN TILE BASEMNT-UNFINISHED BSMT TOPO -LEVEL			$163,015-TV $145,807-LV $17,208-IV

EL PASO (CAD), TX. I13

IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-1715 | 34 | M-3 | C2-COMMERCIAL VACANT LOT ROAD TY-BUSINESS CLUSTR | 04/26/91 | $11,464-TV
SCHUSTER LEO JR | C-COMMERCIAL | W - - | $11,464-LV
501 EXECUTIVE CENTER BLVD | LAND AREA- .263AC | 2321-1746
EL PASO TX 79902-1037
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 17-D-2
(0.2632 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1720 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
9 REFERENCE | REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 17-E
(0.645 ACRE) CARRIED WITH 17-A
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1725 | 34 | M-3 | F1-COMM OTHR THAN F2-F9 | EXT FIN-CONCRETE BLOCK | YR BLT -1974 | 07/29/94 | $418,089-TV
EL PASO CENTER OF THE DEAF INC | MRCL-RET STORE MASONRY | RF TYPE-FLAT | W - - | $210,006-LV
1005 E YANDELL DR | C-COMMERCIAL | RF MAT -TAR & GRAVEL | 2774-0178 | $208,083-IV
EL PASO TX 79903-5429 | LAND AREA- 10,287SF | HEATING-FORCED AIR | PRIOR:
*511 EXECUTIVE CENTER | LAND AREA- .803AC | COOLING-CENTRAL AIR | 12/27/91
BARKER SURV 10 ABST #7 TR 17-E-1 | MAIN BLDG- 10,287SF | INT FIN-FIN, OPEN AREA | W - -
(0.708 ACRE) & TR 17-H (0.096 | ADJ BLDG- 10,287SF | FLOOR -CARPETING | 2383-2084
ACRE) | YRD PAV BLK TOP 19,569SF | FLOOR -COMPOSITN TILE
IEP-EL PASCO I.S.D. | YRD PAV CONC 1,610SF | BASEMNT-UNFINISHED BSMT
CEP-CITY OF EL PASO | SEC FENC MASON 1,504SF | TOPO -LEVEL
SCC-EL PASO COMM COLLEGE | ROAD TY-BUSINESS CLUSTR
SHO-THOMASON GEN HOSP | UTILITY-ELEC GAS WATER

X010-999-0000-1730 | 34 | M-3 | F3-COMM OFFICE BUILDING | EXT FIN-BRICK | YR BLT -1986 | 12/01/86 | $381,129-TV
SCHUSTER MANAGEMENT CORP | PFCA-1&2 STRY DET MASONRY | RF TYPE-FLAT | W -SD- | $134,334-LV
501 EXECUTIVE CENTER BLVD | C-COMMERCIAL | RF MAT -TAR & GRAVEL | 1753-0279 | $246,795-IV
EL PASO TX 79902-1037 | LAND AREA- 14,823SF | HEATING-FORCED AIR
*501 EXECUTIVE CENTER | LAND AREA- .514AC | COOLING-CENTRAL AIR
BARKER SURV 10 ABST #7 TR 17-E-2 | MAIN BLDG- 4,606SF | INT FIN-FIN, DIV AREA
(0.499 ACRE) & TR 17-J (0.015 | ADJ BLDG- 9,212SF | INT FIN-FIN, DIV AREA
ACRE) | OFFICE AREA MTL 368SF | FLOOR -CARPETING
IEP-EL PASCO I.S.D. | OFFICE AREA MTL 1,071SF | FLOOR -COMPOSITN TILE
CEP-CITY OF EL PASO | OFFICE AREA MTL 434SF | BASEMNT-UNFINISHED BSMT
SCC-EL PASO COMM COLLEGE | YRD PAV BLK TOP 9,537SF | TOPO -LEVEL
SHO-THOMASON GEN HOSP | YRD PAV CONC 775SF | ROAD TY-BUSINESS CLUSTR
SEC FENC MASON 624SF | UTILITY-ELEC GAS WATER
SVC CANOP FIN S 264SF
SVC CANOP FIN S 324SF
ADDIT TO MAIN 5,611SF

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PARCEL NUMBER | DIST | ZONE | LAND USE | BUILDING FEATURES | STATISTICAL | SALE PRICE | TOTAL VALUE-TV

[redacted]

CEP-CITY OF EL PASO	OFFICE AREA MTL	434SF	BASEMNT-UNFINISHED BSMT
SCC-EL PASO COMM COLLEGE	YRD PAV BLK TOP	9,537SF	TOPO -LEVEL
SHO-THOMASON GEN HOSP	YRD PAV CONC	775SF	ROAD TY-BUSINESS CLUSTR
	SEC FENC MASON	624SF	UTILITY-ELEC GAS WATER
	SVC CANOP FIN S	264SF	
	SVC CANOP FIN S	324SF	
	ADDIT TO MAIN	5,611SF	

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST — ZONE — TAX DISTRICTS — LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES — BUILDING FEATURES / EXEMPTIONS — STATISTICAL DATA — SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE — TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-1735 — 34 — M-3
KOGER EQUITY OF TEXAS INC
3986 BOULEVARD CENTER DR # 101
JACKSONVILLE FL 32207-2838
*445 EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 17-F (0.663 ACRE) & TR 17-G (0.023 ACRE) & TR 17-B-1 (0.186 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

F3-COMM OFFICE BUILDING
PFCA-1&2 STRY DET MASONRY
C-COMMERCIAL
LAND AREA- 7,171SF
LAND AREA- .872AC
MAIN BLDG- 7,171SF
ADJ BLDG- 7,171SF
YRD PAV BLK TOP 12,847SF
YRD PAV CONC 1,775SF

EXT FIN-BRICK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-FORCED AIR
COOLING-CENTRAL AIR
INT FIN-FIN, DIV AREA
FLOOR -CARPETING
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT
TOPO -LEVEL
ROAD TY-BUSINESS CLUSTR
UTILITY-ELEC GAS WATER

YR BLT -1975

12/31/90 — $262,720-TV
W - - — $189,920-LV
2272-1266 — $72,800-IV
PRIOR:
10/80
1121-0559

X010-999-0000-1740 — 34
9 REFERENCE
BARKER SURV 10 ABST #7 TR 17-G (0.023 ACRE) CARRIED WITH 17-F
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

X010-999-0000-1742 — 34
9 REFERENCE
BARKER SURV 10 ABST #7 TR 17-H (0.096 ACRE) CARRIED WITH 17-E-1
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

X010-999-0000-1744 — 34
9 REFERENCE
BARKER SURV 10 ABST #7 TR 17-J (0.015 ACRE) CARRIED WITH 17-E-2
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

X010-999-0000-1746 — 34
9 REFERENCE
BARKER SURV 10 ABST #7 TR 17-F (0.021 ACRE) CARRIED WITH 17-A
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Y9-REFERENCE
REF-REFERENCE ACCT ONLY

EXEMPT -R REFER ACCT

PARCEL NUMBER — DIST — ZONE — LAND USE — BUILDING FEATURES — STATISTICAL — SALE PRICE — TOTAL VALUE-TV

(0.021 ACRE) CARRIED WITH 17-A
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME PROPERTY CLASS EXEMPTIONS DATA SALE DATE LAND VALUE-LV
MAILING ADDRESS PROPERTY TYPE D -S -F CDS IMPRV VALUE-IV
*PROPERTY LOCATION LAND AREA BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS EXTRA FEATURES AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-1800 34 M-3 Z1-ALL ENTITIES TOPO -ROUGH $34,400 $17,502-TV
CITY OF EL PASO C-COMMERCIAL ROAD TY-NEIGHBORHOOD 05/29/87 $17,502-LV
2 CIVIC CENTER PLZ LAND AREA- 5.740AC UTILITY-ELEC GAS WATER W -D -
EL PASO TX 79901-1124 EXEMPT -G GOVT ENTITY 1806-0167
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 18
5.7400 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-1900 34 M-3 J3-UTILS/ELECTRIC CO ROAD TY-NEIGHBORHOOD $19,490-TV
EL PASO ELECTRIC CO C-COMMERCIAL $19,490-LV
303 N OREGON ST LAND AREA- 8.949AC
EL PASO TX 79901-1329
* INTERSTATE 10
BARKER SURV 10 ABST #7 TR 19
(8.949 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2000 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 20-A
(196.009 ACRES) CARRIED WITH 1
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2005 34 M-3 C2-COMMERCIAL VACANT LOT ROAD TY-COMM/IND PARK 09/30/92 $62,182-TV
CK PROPERTIES LC C-COMMERCIAL W - - $62,182-LV
4487 N MESA ST # 204 LAND AREA- 5.710AC 2486-0668
EL PASO TX 79902-1149 PRIOR:
* N MESA ST 09/28/90
BARKER SURV 10 ABST #7 W - -
20-A-1(3.264 AC)& 20-B (2.446 AC) 2240-0681
(5.7100 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

TRW·REDI Nationwide 1 – 800 – 345 – 7334

PARCEL NUMBER DIST ZONE LAND USE

SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS — DIST — ZONE — LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES — BUILDING FEATURES / EXEMPTIONS — STATISTICAL DATA — SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE — TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-2010 — 34 — M-3 — C2-COMMERCIAL VACANT LOT ROAD TY-COMM/IND PARK — $21,976-TV / $21,976-LV
A S A R C O INC
C/O PO BOX 26903
EL PASO TX 79926-6903
* N MESA ST
BARKER SURV 10 ABST #7 TR 20-C
(2.018 ACRES)
C-COMMERCIAL
LAND AREA- 2.018AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2015 — 34 — C-4 — C2-COMMERCIAL VACANT LOT ROAD TY-COMM/IND PARK — 09/30/92 W - - 2725-2131 PRIOR: 09/30/92 W - - 2486-0668 — $6,908-TV / $6,908-LV
CK PROPERTIES L C
4487 N MESA ST # 204
EL PASO TX 79902-1149
* N MESA ST
BARKER SURV 10 ABST #7 TR 20-B-1
(0.6344 AC)
C-COMMERCIAL
LAND AREA- .634AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2100 — 34 — M-3 — D7-DESERT ACREAGE <5AC TOPO -ROLLING — 10/01/90 W - - 2228-2171 PRIOR: 02/23/84 1426-1380 — $11,764-TV / $11,764-LV
ARROYO HOLDINGS LTD
C/O FRASER MARY A & 2
114 CASTELLANO DR
EL PASO TX 79912-6170
BARKER SURV 10 ABST #7 TR 21
(2.3528 ACRES)
R-RESIDENTIAL
LAND AREA- 2.352AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2200 — 34 — M-3 — J3-UTILS/ELECTRIC CO ROAD TY-NEIGHBORHOOD — $1,117-TV / $1,117-LV
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
* EXECUTIVE CENTER
BARKER SURV 10 ABST #7 TR 22-A
(0.513 ACRE)
C-COMMERCIAL
LAND AREA- .513AC
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER ..... DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV

BARKER SURV 10 ABST #7 TR 22-A
(0.513 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-2205 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
9 REFERENCE
REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 22-B
(0.509 ACRE) CARRIED WITH E O
DRYER SURV 132
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2300 | 34 | C-4 | J3-UTILS/ELECTRIC CO | ROAD TY-NEIGHBORHOOD | $3,404-TV / $3,404-LV
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
* EXECUTIVE CENTER
C-COMMERCIAL
LAND AREA- 1.563AC
BARKER SURV 10 ABST #7 TR 23
(1.563 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2400 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
9 REFERENCE
REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 24 (0.5
ACRE) & 25 (3.722 ACRES) CARRIED
WITH 1
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X010-999-0000-2600 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
SOUTHERN PACIFIC RAILROAD CO
C/O O SULLIVAN R R
PO BOX 1319
HOUSTON TX 77251-1319
* RR ROW
REF-REFERENCE ACCT ONLY
BARKER SURV 10 ABST #7 TR 26
(33.22 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X010-BARKER SURV 10 ABST 07

X010-999-0000-2700 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
SANTA FE RAILROAD CO
TAX DEPT
AMARILLO TX 79171-6600
* RR ROW
BARKER SURV 10 ABST #7 TR 27
(11.03 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
REF-REFERENCE ACCT ONLY

$2,087,932-TV
$1,041,846-LV
$128,655-BV
$76,042-BV

X010-999-0000-2800 | 34 | C-4 | Z9-U S A | EXEMPT -G GOVT ENTITY
UNITED STATES GOVERNMENT
BARKER SURV 10 ABST #7 TR 28
(11.879 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
C-COMMERCIAL
LAND AREA- 11.879AC

$51,744-TV
$51,744-LV

X011-E BENNETT SURV 11

X011-999-000A-0100 | 34 | M-1 | F7-COMMERCIAL WAREHSES | EXT FIN-PRE-CAST CONC | YR BLT -1967 | 08/04/90 | $2,332,748-TV
BROWN BRUCE W
C/O CAUGHRAN KERRY B
415 N MESA ST # 210
EL PASO TX 79901-1244
*300 N CONCEPCION ST
E BENNETT SURV 11 TR 1 (2.567 AC)
& ALL BLKS 11&12 S 81.3 FT OF 13
BRENTWOOD HTS & CLSD ST S ALY S
IN&BTW(2.033 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
ISCL-STG WHS MASONRY
C-COMMERCIAL
LAND AREA- 17,451SF
LAND AREA- 5.000AC
MAIN BLDG- 17,351SF
ADJ BLDG- 17,351SF
LOAD DOCK CONC 720SF
AUTO DOCK LEVEL 3UN
SVC CNPY EXP SO 1,986SF
SPRINK SYS EXPD 32,659SF
SEC FENC BARBED 15,300SF
ADJUSTED VALUE 1UN
ADDIT TO MAIN
RF TYPE-FLAT
RF MAT -METAL
HEATING-FORCED AIR
COOLING-CENTRAL AIR
INT FIN-SEMI-FINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
W - -
2612-0642
PRIOR:
07/31/86
1703-0645

$553,725-TV
$304,731-LV
$248,994-IV

F7-COMMERCIAL WAREHSES | EXT FIN-PRE-CAST CONC | CARD NO- 2 | $486,945-BV
IZCL-COLD STORAGE STR B | RF TYPE-FLAT | YR BLT -1967
C-COMMERCIAL | RF MAT -METAL
LAND AREA- 36,673SF | HEATING-FORCED AIR
LAND AREA- 5.000AC | COOLING-CENTRAL AIR
MAIN BLDG- 36,673SF | INT FIN-SEMI-FINISHED
ADJ BLDG- 36,673SF | FLOOR -UNFINISHED
ADJUSTED VALUE 1UN | BASEMNT-UNFINISHED BSMT

$72,351-TV
$72,351-LV

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PARCEL NUMBER / OWNERS NAME | DIST | ZONE | LAND USE / PROPERTY CLASS | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE | TOTAL VALUE-TV / LAND VALUE-LV

X204-NESTOR BORUNDA SURV 204 ABST 6152

X204-999-0000-0100 34 M-1 Z9-U S A EXEMPT -G GOVT ENTITY
UNITED STATES GOVERNMENT R-RESIDENTIAL
NESTOR BORUNDA SURV 204 ABS 6152
TR 1 (1.050 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X204-999-0000-0300 34 Y9-REFERENCE EXEMPT -R REFER ACCT
R G E P & S F RAILROAD CO REF-REFERENCE ACCT ONLY
310 SANTA FE BLDG
AMARILLO TX 79110-6646
* RAILROAD
NESTOR BORUNDA SURV 204 ABS 6152
TR 2 (0.469 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X204-999-0000-0500 34 M-1 Z7-PEOPLE OF STATE OF TX ROAD TY-NEIGHBORHOOD
PEOPLE OF THE STATE OF TEXAS C-COMMERCIAL EXEMPT -G GOVT ENTITY
NESTOR BORUNDA SURV 204 ABS 6152 LAND AREA- .413AC
TR 3 (0.413 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X204-999-0000-0700 34 M-1 F1-COMM OTHR THAN F2-F9 BASEMNT-UNFINISHED BSMT 10/76 $40,713-TV
SMITH REX B C-COMMERCIAL TOPO -LEVEL 729-1204 $35,022-LV
3350 DONIPHAN DR LAND AREA- 6,832SF ROAD TY-NEIGHBORHOOD $5,691-IV
EL PASO TX 79922-1640 LAND AREA- 13.400AC UTILITY-ELEC GAS WATER
*3350-REAR DONIPHAN DR MAIN BLDG- 6,832SF
NESTOR BORUNDA SURV 204 ABS 6152 ADJ BLDG- 6,832SF
TR 4 (10.712 ACRES) & TR 6 (2.689 YRD PAV CONC 1,120SF
ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X204-999-0000-0900 34 M-1 J3-UTILS/ELECTRIC CO ROAD TY-NEIGHBORHOOD $2,178-TV
EL PASO ELECTRIC CO C-COMMERCIAL $2,178-LV
303 N OREGON ST LAND AREA- 1.000AC
EL PASO TX 79901-1329
NESTOR BORUNDA SURV 204 ABS 6152
TR 5 (0.997 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME PROPERTY CLASS EXEMPTIONS DATA SALE DATE LAND VALUE-LV
MAILING ADDRESS PROPERTY TYPE D -S -F CDS IMPRV VALUE-IV
*PROPERTY LOCATION LAND AREA BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS EXTRA FEATURES AGRIC VALUE-AV

X204-999-0000-1100 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
NESTOR BORUNDA SURV 204 ABS 6152
TR 6 (2.689 ACRES) CARRIED WITH 4
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X209-F M COLLINS SURV 209 ABST 2260

X209-999-0000-0100

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X045-GUADALUPE LUCERO SURV 45

X045-999-0000-3500
LULAC HOMES TRUST
*6301 DELTA DR

B2-RES MULTI FAMILY APTS
PFCL-1&2 STRY DET MASONRY
C-COMMERCIAL
LAND AREA- 840SF
LAND AREA- 4.790AC
MAIN BLDG- 840SF
ADJ BLDG- 840SF

EXT FIN-BRICK
BASEMNT-UNFINISHED BSMT
CARD NO- 12
YR BLT -1964
CONTINUED

$1,653,252-TV
$365,141-LV
$12,729-BV
$99,113-TV
$99,113-LV

B2-RES MULTI FAMILY APTS
IKDL-SMALL SHOP FRAME
C-COMMERCIAL
LAND AREA- 1,200SF
LAND AREA- 4.790AC
MAIN BLDG- 1,200SF
ADJ BLDG- 1,200SF

EXT FIN-BRICK
BASEMNT-UNFINISHED BSMT
CARD NO- 13
YR BLT -1964

$10,755-BV
$8,036-TV
$8,036-LV

X054-HARRISON SURV 54 ABST 2804

X054-999-000A-0100 34 M-3
A S A R C O INC
C/O PO BOX 26903
EL PASO TX 79926-6903
HARRISON SURV 54 ABST 2804 (8.484 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C2-COMMERCIAL VACANT LOT ROAD TY-NEIGHBORHOOD
C-COMMERCIAL
LAND AREA- 8.484AC

$147,825-TV
$147,825-LV
$28-TV
$28-LV

X054-999-000A-5000 34 M-3
ASARCO INC
PO BOX 1111
EL PASO TX 79999-1111
HARRISON SURV 54 ABST 2804
(0.8397 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C2-COMMERCIAL VACANT LOT ROAD TY-INDUSTRIAL SITE
C-COMMERCIAL
LAND AREA- .839AC

07/26/88
W -D -
1949-1484

$36,577-TV
$36,577-LV
$42,126-TV
$42,126-LV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000D-0100 34
TAYLOR HENRY L
PO BOX 220462
EL PASO TX 79913-2462
*2650 W PAISANO DR
HARRISON SURV 54 ABST 2804
(2.0410 AC) (2.0410 AC)

F7 COMMERCIAL WAREHSE-S
ISDA-STG WHS FRAME
C-COMMERCIAL
LAND AREA- 1,710SF
LAND AREA- 2.041AC
MAIN BLDG- 1,710SF

EXT FIN-METAL SIDING
RF TYPE-GABLE
RF MAT -METAL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED

YR BLT -1986

12/82
1313-0795
PRIOR:
01/04/81
1138-1329

$51,831-TV
$22,226-LV
$29,605-IV
$42,864-TV
$42,864-LV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC — DIST — ZONE — LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES — BUILDING FEATURES / EXEMPTIONS — STATISTICAL DATA — SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE — TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000D-0100 — 34

TAYLOR HENRY L
PO BOX 220462
EL PASO TX 79913-2462
*2650 W PAISANO DR
HARRISON SURV 54 ABST 2804 (2.0410 AC) (2.0410 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

F7-COMMERCIAL WAREHSES
ISDA-STG WHS FRAME
C-COMMERCIAL
LAND AREA- 1,710SF
LAND AREA- 2.041AC
MAIN BLDG- 1,710SF
ADJ BLDG- 1,710SF
DOCK CANOPY OPN 240SF
LOAD DOCK DIRT 840SF
OFFICE AREA MTL 450SF
HALF BATH 2UN
YRD PAV CONC 576SF
SEC FENC BARBED 6,160SF
SVC CANOP UNFIN 576SF
ADJUSTED VALUE 1UN

EXT FIN-METAL SIDING
RF TYPE-GABLE
RF MAT -METAL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
TOPO -LEVEL

YR BLT -1986

12/82
1313-0795
PRIOR:
01/04/81
1138-1329

$51,831-TV
$22,226-LV
$29,605-IV

$42,864-TV
$42,864-LV

X054-999-000D-0200 — 34 — M-3

ASARCO INC
5032 COUNTRY CLUB PL
EL PASO TX 79922-2014
HARRISON SURV 54 ABST 2804 (1.2680 AC) (1.2680 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C2-COMMERCIAL VACANT LOT
C-COMMERCIAL
LAND AREA- 1.268AC

TOPO -LEVEL
ROAD TY-INDUSTRIAL SITE
UTILITY-ELEC GAS WATER

02/23/90
W - -
2153-0602

$13,808-TV
$13,808-LV

$121,704-TV
$121,704-LV

X054-999-000D-0300 — 34 — M-3

ASARCO INC
PO BOX 1111
EL PASO TX 79999-1111
*2700 PAISANO DR
HARRISON SURV 54 ABST 2804 (1.064 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

F7-COMMERCIAL WAREHSES
C-COMMERCIAL
LAND AREA- 2,100SF
LAND AREA- 1.064AC
MAIN BLDG- 2,100SF
ADJ BLDG- 2,100SF
SVC CNPY EXP SO 1,700SF
SEC FENC CYCLN 6,440SF
ADJUSTED VALUE 1UN
ADJUSTED VALUE 1UN

EXT FIN-CORR SIDING
RF MAT -METAL
HT/AC -ROOM UNITS
INT FIN-UNFINISHED
FLOOR -UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT
ROAD TY-INTERSTATE HWY

YR BLT -1960

02/01/90
W - -
2209-1691
PRIOR:
04/11/85
1581-0907

$64,861-TV
$11,587-LV
$53,274-IV

$8,187-TV
$8,187-LV

X054-999-000D-1000 — 34 — M-3

CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
HARRISON SURV 54 ABST 2804 1.451 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- 1.451AC

ROAD TY-MAJOR STRIP
EXEMPT -G GOVT ENTITY

01/77
835-1061

PARCEL NUMBER / OWNERS NAME — DIST — ZONE — LAND USE — BUILDING FEATURES — STATISTICAL — SALE PRICE — TOTAL VALUE-TV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000E-0200 | 34 | M-3 | J3-UTILS/ELECTRIC CO; I-INDUSTRIAL; LAND AREA- 8.290AC | ROAD TY-NEIGHBORHOOD | $18,055-TV; $18,055-LV

EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
HARRISON SURV 54 ABST 2804 (8.29 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X054-999-000E-0300 | 34 | Y9-REFERENCE; REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT | $2,976-TV; $2,976-LV

E P & S W RAILROAD CO
SOUTHERN PACIFIC BLDG
EL PASO TX 79901-6600
HARRISON SURV 54 ABST 2804 (2.502 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X054-999-000E-0400 | 34 | Y9-REFERENCE; REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT | $3,843-TV; $3,843-LV

T & N O RAILROAD CO
PO BOX 10685
EL PASO TX 79996-6605
HARRISON SURV 54 ABST 2804 (4.26 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X054-999-000E-0500 | 34 | Y9-REFERENCE; REF-REFERENCE ACCT ONLY | EXEMPT -R REFER ACCT | $1,863-TV; $1,863-IV

R G E P & S F RAILROAD CO
310 SANTA FE BLDG
AMARILLO TX 79110-6646
HARRISON SURV 54 ABST 2804 (13.24 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X054-999-000E-0600 | 34 | M-3 | Z7-PEOPLE OF STATE OF TX; C-COMMERCIAL; LAND AREA- 6.575AC | ROAD TY-MAJOR STRIP; EXEMPT -G GOVT ENTITY | $28,071-TV; $28,071-LV

PEOPLE OF THE STATE OF TEXAS
* DONIPHAN DR
HARRISON SURV 54 ABST 2804 (6.575 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000E-0700 | 34 | M-3 | C2-COMMERCIAL VACANT LOT ROAD TY-INDUSTRIAL SITE | $269,723-TV / $269,723-LV

A S A R C O INC
C/O PO BOX 26903
EL PASO TX 79926-6903
HARRISON SURV 54 ABST 2804
(21.180 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

C-COMMERCIAL
LAND AREA- 21.180AC

X054-999-000E-1501 | 34 | $105,498-TV / $71,626-LV / $33,872-IV

SOUTHWESTERN PORTLAND CEMENT
PO BOX 1547
ODESSA TX 79760-1547
*2825 W PAISANO DR
HARRISON SURV 54 ABST 2804
(27.4052 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

F2-INDUSTRIAL BLDGS
PFCL-1&2 STRY DET MASONRY
I-INDUSTRIAL
LAND AREA- 24,046SF
LAND AREA- 27.405AC
MAIN BLDG- 10,054SF
ADJ BLDG- 20,108SF
UNGRND STRG TNK 2,500SF
GARAGES CONC BL 1,428SF
RAILROAD SIDING 5,500SF
YRD PAV BLK TOP 33,250SF
SEC FENC CYCLN 6,940SF
ANCILL BLDG CON 5,853SF
ANCILL BLDG CON 4,990SF
ANCILL BLDG CON 270SF
ANCILL BLDG MTL 552SF
ADDIT TO MAIN 3,938SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

YR BLT -1935

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
I-INDUSTRIAL
LAND AREA- 9,369SF
LAND AREA- 27.405AC
MAIN BLDG- 9,369SF
ADJ BLDG- 9,369SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

CARD NO- 2
YR BLT -1935

$5,929-BV

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
I-INDUSTRIAL
LAND AREA- 1,559SF
LAND AREA- 27.405AC
MAIN BLDG- 1,559SF
ADJ BLDG- 1,559SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

CARD NO- 3
YR BLT -1935

$986-BV

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV
X054-HARRISON SURV 54 ABST 2804

[redacted]

MAIN BLDG- 1,559SF INT FIN-UNFINISHED
ADJ BLDG- 1,559SF FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

PARCEL NUMBER DIST ZONE
OWNERS NAME
MAILING ADDRESS
*PROPERTY LOCATION
LEGAL DESC TAX DISTRICTS

LAND USE
PROPERTY CLASS
PROPERTY TYPE
LAND AREA
EXTRA FEATURES

BUILDING FEATURES
EXEMPTIONS

STATISTICAL DATA

SALE PRICE
SALE DATE
D -S -F CDS
BOOK-PAGE

TOTAL VALUE-TV
LAND VALUE-LV
IMPRV VALUE-IV
BLDG VALUE-BV
AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000E-1501
SOUTHWESTERN PORTLAND CEMENT
*2825 W PAISANO DR

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
I-INDUSTRIAL
LAND AREA- 8,865SF
LAND AREA- 27.405AC
MAIN BLDG- 8,865SF
ADJ BLDG- 8,865SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

CARD NO- 4 *CONTINUED*
YR BLT -1935

$105,498-TV
$71,626-LV
$5,611-BV

F2-INDUSTRIAL BLDGS
ISCL-STG WHS MASONRY
I-INDUSTRIAL
LAND AREA- 6,729SF
LAND AREA- 27.405AC
MAIN BLDG- 6,729SF
ADJ BLDG- 6,729SF
LOAD DOCK CONC 550SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-NO HEAT
COOLING-NO COOLING
INT FIN-UNFINISHED
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT

CARD NO- 5
YR BLT -1935

$3,715-BV

X054-999-000E-1503 34 M-3
CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
HARRISON SURV 54 ABST 2804
(0.8168 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- .816AC

ROAD TY-INDUSTRIAL SITE
EXEMPT -G GOVT ENTITY

09/26/90
Q - -
2227-1030

$14,232-TV
$14,232-LV

X054-999-000E-1505 34 M-3
A S A R C O INC
C/O PO BOX 26903
EL PASO TX 79926-6903
HARRISON SURV 54 ABST 2807 (1.657 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

D7-DESERT ACREAGE <5AC
R-RESIDENTIAL
LAND AREA- 1.657AC

$4,971-TV
$4,971-LV

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PARCEL NUMBER DIST ZONE LAND USE

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D-S-F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000E-1507 34
GRANDE PORTLAND CEMENT CORP
11783 STATE HIGHWAY 14 SOUTH
TIJERAS NM 67059
HARRISON SURV 54 ABST 2804
(11.1160 AC)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
M-MANUFACTURING
LAND AREA- 6,423SF
LAND AREA- 11.116AC
MAIN BLDG- 4,783SF
ADJ BLDG- 4,783SF
DOCK CANOPY ENC 944SF
DOCK CANOPY ENC 1,860SF
LOAD DOCK CONC 297SF
OFFICE AREA MTL 135SF
TRCKWLL CONC 2 1UN
STRG COMML GR 5,152SF
ANCILL BLDG CON 1,080SF
ANCILL BLDG WD 1,056SF
ADDIT TO MAIN 1,640SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
HEATING-SUSP SPACE HTRS
COOLING-EVAP COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
YR BLT -1935

09/14/94
W - -
2791-0501
PRIOR:
12/11/92
W - -

$424,098-TV
$48,421-LV
$375,677-IV

$229,892-TV
$24,500-LV
$205,392-IV

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
M-MANUFACTURING
LAND AREA- 16,762SF
LAND AREA- 11.116AC
MAIN BLDG- 16,762SF
ADJ BLDG- 16,762SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
HEATING-SUSP SPACE HTRS
COOLING-EVAP COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
CARD NO- 2
YR BLT -1935

$43,022-BV

$37,817-BV

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
M-MANUFACTURING
LAND AREA- 14,916SF
LAND AREA- 11.116AC
MAIN BLDG- 4,972SF
ADJ BLDG- 9,944SF
ADDIT TO MAIN 4,972SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
HEATING-SUSP SPACE HTRS
COOLING-EVAP COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
CARD NO- 3
YR BLT -1935

$33,651-BV

$170,647-TV
$51,923-LV
$118,724-IV

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
M-MANUFACTURING
LAND AREA- 18,044SF
LAND AREA- 11.116AC
MAIN BLDG- 6,800SF
ADJ BLDG- 13,600SF
ADDIT TO MAIN 4,444SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
HEATING-SUSP SPACE HTRS
COOLING-EVAP COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
CARD NO- 4
YR BLT -1935

$39,870-BV

$738,900-TV
$271,888-LV
$467,012-IV

F2-INDUSTRIAL BLDGS
IMCL-MFG MASONRY
M-MANUFACTURING
LAND AREA- 16,028SF
LAND AREA- 11.116AC
MAIN BLDG- 16,028SF
ADJ BLDG- 16,028SF

EXT FIN-CONCRETE BLOCK
RF TYPE-FLAT
HEATING-SUSP SPACE HTRS
COOLING-EVAP COOLING
INT FIN-UNFINISHED
FLOOR -UNFINISHED
BASEMNT-UNFINISHED BSMT
CARD NO- 5
YR BLT -1935

$36,161-BV

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X054-HARRISON SURV 54 ABST 2804

X054-999-000E-1800 | 34 | M-3
SANCHEZ SERGIO L & PATRICI
28 SAN MARCOS DR
EL PASO TX 79922-1661
*28 SAN MARCOS DR
HARRISON SURV 54 1.4 ACRES
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
F1-COMM OTHR THAN F2-F9
I-INDUSTRIAL
LAND AREA- 3,000SF
LAND AREA- 1.400AC
MAIN BLDG- 3,000SF
ADJ BLDG- 3,000SF
SEC FENC BARBED 4,500SF
BASEMNT-UNFINISHED BSMT
ROAD TY-NEIGHBORHOOD
03/27/89
W - -
2035-0850
PRIOR:
03/02/88
W -A -
1974-1918
$21,406-TV
$15,246-LV
$6,160-IV

X054-999-000E-2000 | 34
9 REFERENCE
HARRISON SURV 54 ABST 2804 63.057 ACRES N OF IS 10 CARRIED WITH 1 & 2 RUBIN HEIGHTS
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
Y9-REFERENCE
REF-REFERENCE ACCT ONLY
EXEMPT -R REFER ACCT

X054-999-000E-3000 | 34 | M-3
JOBE CONCRETE PRODUCTS INC
1 MCKELLIGON CANYON RD
EL PASO TX 79930-2634
*762 EXECUTIVE CENTER
HARRISON SURV 54 ABST 2804 (2.066 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
F7-COMMERCIAL WAREHSES
C-COMMERCIAL
LAND AREA- 2.066AC
RF TYPE-FLAT
RF MAT -TAR & GRAVEL
HEATING-FORCED AIR
COOLING-NO COOLING
INT FIN-FIN, OPEN AREA
FLOOR -COMPOSITN TILE
BASEMNT-UNFINISHED BSMT
ROAD TY-SECONDARY STRIP
06/09/94
W - -
2750-1673
PRIOR:
08/16/90
W - -
2211-0229
$14,799-TV
$8,999-LV
$5,800-IV

X054-999-000E-4000 | 34
ARMSTRONG C E TR
102 N KANSAS ST
EL PASO TX 79901-1408
HARRISON SURV 54 ABST 2804 (22.5 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
Y9-REFERENCE
REF-REFERENCE ACCT ONLY
LAND AREA- 22.500AC
EXEMPT -R REFER ACCT
12/75
648-1929
$101,250-TV
$101,250-LV

X054-999-000E-5000 | 34 | M-3
CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
HARRISON SURV 54 ABST 2804 (0.014 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
Z1-ALL ENTITIES
C-COMMERCIAL
LAND AREA- .014AC
ROAD TY-INTERSTATE HWY
EXEMPT -G GOVT ENTITY

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PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV
X054-HARRISON SURV 54 ABST 2804

[redacted] $1,146,867-TV
PRIOR:
09/30/91
- -
2552-1865

$90,658-BV

$446,862-BV

$10,036-BV

MBANK PLAZA
EL PASO TX 79901
HARRISON SURV 54 ABST 2804
(25.728 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

LAND AREA- 25.728AC

06/04/91 $197,205-TV
2320-0136 $197,205-LV
PRIOR:
07/16/86
W -AD-D
1695-0547

X054-999-000E-7500 34 M-3 F7-COMMERCIAL WAREHSES EXT FIN-BRICK YR BLT -1940 $85,174-TV
A S A R C O INC ISCL-STG WHS MASONRY RF TYPE-GABLE $23,435-LV
C/O PO BOX 26903 C-COMMERCIAL RF MAT -ASPHALT SHINGLE $61,739-IV
EL PASO TX 79926-6903 LAND AREA- 22,721SF HEATING-NO HEAT
*2535 V F W ST LAND AREA- 2.152AC COOLING-NO COOLING
HARRISON SURV 54 ABST 2804 (2.152 MAIN BLDG- 22,721SF INT FIN-UNFINISHED
ACRES) ADJ BLDG- 22,721SF FLOOR -UNFINISHED
IEP-EL PASCO I.S.D. BASEMNT-PART FIN BSMT
CEP-CITY OF EL PASO TOPO -LEVEL
SCC-EL PASO COMM COLLEGE ROAD TY-INDUSTRIAL SITE
SHO-THOMASON GEN HOSP UTILITY-ELEC GAS WATER

X054-999-000E-8500 34 Y9-REFERENCE EXEMPT -R REFER ACCT
9 REFERENCE REF-REFERENCE ACCT ONLY
HARRISON SURV 54 ABST 2804 7.255
ACRES CARRIED WITH WEST SIDE PARK
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

X054-999-000E-9500 34 M-3 D7-DESERT ACREAGE <5AC 06/04/91 $192,606-TV
MBANK R-RESIDENTIAL F - - $192,606-LV
MBANK PLAZA LAND AREA- 25.128AC 2320-0136
EL PASO TX 79901 PRIOR:
HARRISON SURV 54 ABST 2804 07/16/86
(25.128 ACRES) W -AD-D
IEP-EL PASCO I.S.D. 1695-0547
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

EL PASO (CAD), TX. P18

PARCEL NUMBER DIST ZONE LAND USE BUILDING FEATURES STATISTICAL SALE PRICE TOTAL VALUE-TV
OWNERS NAME PROPERTY CLASS EXEMPTIONS DATA SALE DATE LAND VALUE-LV
MAILING ADDRESS PROPERTY TYPE D -S -F CDS IMPRV VALUE-IV
*PROPERTY LOCATION LAND AREA BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS EXTRA FEATURES AGRIC VALUE-AV

X064-999-0000-0100 34 Y9-REFERENCE EXEMPT -R REFER ACCT
E P & N E RAILROAD CO REF-REFERENCE ACCT ONLY
PO BOX 1319
HOUSTON TX 77251-1319
* RAILROAD
PIERCE-ALLEN-SAVAGE #64 ABS 2323
(2.10 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP

10/01/84 $6,401-IV
1496-0333 $1,610-LV
PRIOR: $4,791-IV
08/83
1372-0365

X064-PIERCE ALLEN SAVAGE 64 ABST 2323

08/21/86 $11,822-TV
-DD-D $11,822-LV
777-1611
PRIOR:
07/23/86
725-1194

X064-999-0000-0500 34 PMD J3-UTILS/ELECTRIC CO ROAD TY-NEIGHBORHOOD $84,774-TV
EL PASO ELECTRIC CO C-COMMERCIAL $84,774-LV
303 N OREGON ST LAND AREA-

CRECENCIO MOREGO SURV 114 ABST 2679

999-0000-4600	34	M-1	F3-COMM OFFICE BUILDING	EXT FIN-BRICK	YR BLT -1955		$144,912-TV
SMITH REX B & MARY H			PFCL-1&2 STRY DET MASONRY	RF TYPE-FLAT	YR EFF -1982		$42,917-LV
3350 DONIPHAN DR			C-COMMERCIAL	RF MAT -COMPOS B-U REG			$101,995-IV
EL PASO TX 79922-1648			LAND AREA- 13,356SF	HEATING-FORCED AIR			
3350 DONIPHAN DR			LAND AREA- 3.941AC	COOLING-EVAP COOLING			
CRECENCIO MOREGO SUR 114 AB 2679			MAIN BLDG- 4,452SF	INT FIN-FIN, DIV ARE,			
TR 6 (3.941 ACRES)			ADJ BLDG- 8,904SF	INT FIN-FIN, DIV AREA			
IEP-EL PASCO I.S.D.			BALC/PRCH MED 1UN	FLOOR -HARDWOOD			
CEP-CITY OF EL PASO			BALC/PRCH SMALL 2UN	FLOOR -CARPETING			
SCC-EL PASO COMM COLLEGE			YRD PAV BLK TOP 42,103SF	BASEMNT-UNFINISHED BSMT			
SHO-THOMASON GEN HOSP			SEC FE.IC MASON 1,830SF	TOPO -SLOPE			
			BASEMENT	ROAD TY-NEIGHBORHOOD			
			ADDIT TO MAIN 4,452SF	UTILITY-ELEC GAS WATER			

999-0000-5500	34	R-4	C2-COMMERCIAL VACANT LOT	ROAD TY-INTERSTATE HWY		03/10/88	$71,618-TV
JOBE CONCRETE PRODUCTS INC			C-COMMERCIAL			W -AB-B	$71,618-LV
1 MCKELLIGON CANYON RD			LAND AREA- 27.545AC			1901-0764	
EL PASO TX 79930-2634						PRIOR:	
DONIPHAN DR						07/17/86	
CRECENCIO MOREGO SUR 114 AB 2679						W -AD-D	
7 (26.2976 AC) & 7-A (1.2479 AC)						1695-0554	
(27.5455 AC)							
IEP-EL PASCO I.S.D.							
CEP-CITY OF EL PASO							
SCC-EL PASO COMM COLLEGE							
SHO-THOMASON GEN HOSP							

999-0000-6400	34	R-4	J3-UTILS/ELECTRIC CO	ROAD TY-NEIGHBORHOOD			$10,132-TV
EL PASO ELECTRIC CO			C-COMMERCIAL				$10,132-LV
303 N OREGON ST			LAND AREA- 4.652AC				
EL PASO TX 79901-1329							
DONIPHAN DR							
CRECENCIO MOREGO SUR 114 AB 2679							
TR 8 (4.562 ACRES)							
IEP-EL PASCO I.S.D.							
CEP-CITY OF EL PASO							
SCC-EL PASO COMM COLLEGE							
SHO-THOMASON GEN HOSP							

999-0000-7300	34		C2-COMMERCIAL VACANT LOT	ROAD TY-INTERSTATE HWY		03/10/88	$68,905-TV
JOBE CONCRETE PRODUCTS INC			C-COMMERCIAL			W -AB-B	$68,905-LV
1 MCKELLIGON CANYON RD			LAND AREA- 26.502AC			1901-0764	
EL PASO TX 79930-2634						PRIOR:	
CRECENCIO MOREGO SUR 114 AB 2679						07/17/86	
9(15.6052AC(&10(1.3451AC)&11-B						W -AD-D	
(3.0592AC)&15-A(6.493AC) IN						1695-0554	
ANDREW STOUT SURV 135(26.5023AC)							
IEP-EL PASCO I.S.D.							
CEP-CITY OF EL PASO							
SCC-EL PASO COMM COLLEGE							
SHO-THOMASON GEN HOSP							

NUMBER DIST ZONE | LAND USE | BUILDING FEATURES | STATISTICAL | SALE PRICE TOTAL VALUE-TV
OWNERS NAME | PROPERTY CLASS | EXEMPTIONS | DATA | SALE DATE LAND VALUE-LV
MAILING ADDRESS | PROPERTY TYPE | | | D -S -F CDS IMPRV VALUE-IV
CITY LOCATION | LAND AREA | | | BOOK-PAGE BLDG VALUE-BV
LEGAL DESC TAX DISTRICTS | EXTRA FEATURES | | | AGRIC VALUE-AV

CRECENCIO MOREGO SURV 114 ABST 2679

999-0000-7400	34	R-4	Z1-ALL ENTITIES	ROAD TY-INTERSTATE HWY		06/23/78	
CITY OF EL PASO			C-COMMERCIAL	EXEMPT -G GOVT ENTITY		W -DD-D	
2 CIVIC CENTER PLZ			LAND AREA- .393AC			913-1212	
EL PASO TX 79901-1124							
CRECENCIO MOREGO SUR 114 AB 2679							
TR 11-A .393 ACRE							
IEP-EL PASCO I.S.D.							
CEP-CITY OF EL PASO							
SCC-EL PASO COMM COLLEGE							
SHO-THOMASON GEN HOSP							

JOSE GUADARAMA SURV 124 ABST 2652

X132-

X132-999-9 E 7 S

X132-999-HE

*4172 E A (

X132-999-HE

*4172 E 1

X132-999-MC

*4176 E 1

EL PASO (

TRW

PARCEL NU OW

*PROPERTY L

X132-999-9 E 1 S

X132-999-9 E 7

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X091-999-000B-8300 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
R G E P & S F RAILROAD CO
310 SANTA FE BUILDING
AMARILLO TX 79110-6646
GEORGE L WILSON SUR 91 ABST 2716
4.203 ACRES (NO TRACT NOS)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
REF-REFERENCE ACCT ONLY

X106-CHRISTIAN SCHERTZ 106 ABST 2692

X106-999-0000-3300 | 34 | M-3 | J3-UTILS/ELECTRIC CO | ROAD TY-NEIGHBORHOOD | $2,570-TV / $2,570-LV
EL PASO ELECTRIC CO
303 N OREGON ST
EL PASO TX 79901-1329
* PAISANO DR
CHRISTIAN SCHERTZ #106 ABST 2692
(1.18 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
C-COMMERCIAL
LAND AREA- 1.180AC

X106-999-0000-6600 | 34 | M-3 | Z1-ALL ENTITIES | ROAD TY-NEIGHBORHOOD
CITY OF EL PASO
2 CIVIC CENTER PLZ
EL PASO TX 79901-1124
CHRISTIAN SCHERTZ #106 ABST 2692
(0.981 ACRE)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
C-COMMERCIAL
LAND AREA- .981AC
EXEMPT -G GOVT ENTITY

X106-999-0000-6700 | 34 | Y9-REFERENCE | EXEMPT -R REFER ACCT
R G E P & S F RAILROAD CO
310 SANTA FE BLDG
AMARILLO TX 79110-664
CHRISTIAN SCHERTZ #106 ABST 2692
(14.21 ACRES)
IEP-EL PASCO I.S.D.
CEP-CITY OF EL PASO
SCC-EL PASO COMM COLLEGE
SHO-THOMASON GEN HOSP
REF-REFERENCE ACCT ONLY

TRW·REDI Nationwide 1-800-345-7334

PARCEL NUMBER / OWNERS NAME / MAILING ADDRESS / *PROPERTY LOCATION / LEGAL DESC / TAX DISTRICTS | DIST | ZONE | LAND USE / PROPERTY CLASS / PROPERTY TYPE / LAND AREA / EXTRA FEATURES | BUILDING FEATURES / EXEMPTIONS | STATISTICAL DATA | SALE PRICE / SALE DATE / D -S -F CDS / BOOK-PAGE | TOTAL VALUE-TV / LAND VALUE-LV / IMPRV VALUE-IV / BLDG VALUE-BV / AGRIC VALUE-AV

X112-C A ENGELSFREUND SURV 112 ABST 2640

X112-999-0000-5100 | 34 | R-4 | C1-RES VAC LOT/TR < 5AC | 07/01/85 | $31,028-TV / $31,028-LV
INTERNATIONAL CITY DEVELOPERS
1790 N LEE TREVINO DR STE 60
R-RESIDENTIAL
W -AR-B

Appendix B

Lithologic Logs of Monitoring Wells MW-1 through MW-12
(Eder and Associates, 1990)

BORING REPORT

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

DATE STARTED : 4-10-90 | DATE FINISHED : 4-10-90 | BORING No. MW-1

CLIENT : REXENE | PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS:

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3" X 24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								LIGHT BROWN SILTY SAND
	0		0-2	M	1.0	1-6 / 5-9		
	0		2-4	M	2.0	3-3 / 3-3		
5								
	0		4-6	W	2.0	2-2 / 3-4		RED/BROWN SILTY CLAY
			6-8					
10	0		8-10	W	2.0	4-5 / 4-7		RED/BROWN V. FINE SAND
15	0		13-15	W	2.0	4-3 / 2-5		
								EOB @ 15.0
20								

BORING

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

REPORT

SHEET 1 OF 1

DATE STARTED : 4-5-90	DATE FINISHED : 4-5-90	BORING No. MW-2
CLIENT : EXXENE		PROJECT No : 609-9
PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK,		
REMARKS:		
DRILLING CONTRACTOR : I.T.	LOGGED BY: K. MCHALE	DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3" x 24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0				M				RED/BROWN V.FINE SANDY SILT
	0		0-2	M	2.0	1-1 2-1		
				M				
	0		2-4	M	2.0	3-4 4-4		RED/BROWN CLAY (STIFF)
5				M				
	0		4-6	M	.75	2-3 4-4		
				W				
	0		6-8	W	2.0	8-6 8-8		
				W				
10	0		8-10	W	2.0	6-7 9-10		RED/BROWN V.FINE SAND W/TRACE SILT - NATURAL BLACK & IRON STAINING.
15	0		13-15	W	1.5	7-8 12		
								EOB @ 15.0
20								

BORING

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85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

REPORT

SHEET 1 OF 2

DATE STARTED : 4-9-90 | DATE FINISHED : 4-9-90 | BORING No. MW-3

CLIENT : REXENE | PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS:

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3" X 24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								
	0		0-2	M	1.2	4-8 14-15		TAN V. FINE SAND
	0		2-4	M	2.0	9-7 7-6		
5								RED/BROWN SILTY V. FINE SAND
	0		4-6	W	2.0	3-6 4-5		
	0		6-8					
10	0		8-10	W	2.0	WR-WR 1-2		RED/BROWN V. FINE SAND
15	0		13-15	W	2.0	14-23 27-26		
20	0		18-20	W	2.0	17-14 16-16		AS ABOVE W/SOME MED TO COARSE SAND/TRACE GRAVEL.

PROJECT NAME: PHASE 1 - BRICKLAND BORING No. MW-3 PROJECT No. 604-9 SHEET 2 OF 2

DEPTH BELOW GRADE	OVA READINGS	TYPE AND No.	DEPTH FROM - TO	MOISTURE	BLOW / 6" OR CORE TIME	SAMPLE RECOVERY	STRATA DEPTH / ELEV.	CLASSIFICATION AND REMARKS TRACE = 0-10% LITTLE = 10-20% SOME = 20-30% AND = 35-50%
25	0		23-25	W	8-9-10	2.0		RED/BROWN V. FINE SAND W/SOME SILT.
30	0		28-30	W	24-24 / 26-24	2.0		RED/BROWN FINE TO COARSE SAND W/LITTLE GRAVEL.
35	0		33-35	W	7-7 / 12-14	2.0		RED/BROWN SAND (FINE)
40								

BORING REPORT

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

DATE STARTED : 3-27-90	DATE FINISHED : 3-28-90	BORING No. MW-4
CLIENT : REXENE		PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO.

REMARKS: APPROXIMATELY 75-100 GALLONS POTABLE WATER WERE ADDED DURING DRILLING TO PREVENT SAND HEAVING.

DRILLING CONTRACTOR : I. T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61 HSA
SIZE :		3" X 24"						
HAMMER WT / FALL		140/30"		BIT				

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0				D				TOPSOIL / FILL
	223		0-2	M	2.0	11-1 15-1		GRAY/BROWN SILTY V. FINE SAND - HEAVILY CONTAMINATED W/BLACK PETROLEUM. STRONG GASOLINE ODOR
			2-4	W	2.0	8-6 9-6		
5								
	356		4-6	W	1.7	7-9 11-10		
			6-8	W	1.8	4-5 6-7		
10	85		8-10	W	1.5	4-4 6-6		GREY SILT W/TRACE V. FINE SAND.
			10-12	W	1.4	6-7 9-11		
15								
								EOB @ 15.0'
20								

BORING

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2317 INTERNATIONAL LANE MADISON, W. 53704

REPORT

SHEET 1 OF 1

DATE STARTED : 3-28-90 | DATE FINISHED : 3-28-90 | BORING No. MW-5

CLIENT : REXENE | PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS:

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3" X 24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								TAN DRY SAND W/PEBBLES.
	130		0-2	M	1.7	9-11 4-6		BLACK STAINED SILT - ODOR (CRUDE)
	140		2-4	M	2.0	3-4 5-6		GREY/BROWN STAINED SILTY CLAY W/STRONG ODOR.
5				W				
	145		4-6	W	2.0	2-2 3-4		
			6-8	W	1.8	4-6 9-13		GREY/BROWN STAINED V. FINE SAND W/ODORS FROM LIGHTER PETROLEUM FRACTIONS.
10	145		8-10	W	2.0	6-9 3-7		
			10-12	W	2.0	6-8 9-4		
15								
								EOB @ 15.0'
20								

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REPORT

SHEET 1 OF 2

DATE STARTED : 4-8-90	DATE FINISHED : 4-8-90	BORING No. MW-6
CLIENT : REXENE		PROJECT No : 604-9
PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO		
REMARKS:		
DRILLING CONTRACTOR : I.T.	LOGGED BY: K. McHALE	DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3"x24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								
	510		0-2	M	1.2	3-10 4-15		TAN V. FINE SILTY SAND W/DK. GREY → BLACK PETRO STAINING.
	518		2-4	M	2.0	8-3 5-5		
5								
	560		4-6	W	2.0	4-6 5-3		
	495		6-8	W	2.0	2-2 1-4		
10	80		8-10	W	2.0	3-2 1-1		
								RED/BROWN V. FINE SAND W/TRACE SILT AND GREY PETRO STAINING.
15	38		13-15	W	2.0	11-6 6-7		
20	24		18-20	W	2.0	14-18 17-50		

PROJECT NAME: PHASE I - BRICKLAND BORING No. MW-6 PROJECT No. 604-9 SHEET 2 OF 2

DEPTH BELOW GRADE	OVA READINGS	TYPE AND No.	DEPTH FROM - TO	MOISTURE	BLOW / 6" OR CORE TIME	SAMPLE RECOVERY	STRATA DEPTH / ELEV.	CLASSIFICATION AND REMARKS TRACE = 0-10% LITTLE = 10-20% SOME = 20-30% AND = 35-50%
25	17		23-25	W	3-11 11-12			MED. TO COARSE SAND + GRAVEL
30	30		28-30	W	13-16 18-24			AS ABOVE W/ RED/BROWN V. FINE SAND.
35	10		33-35	W	4-14 14-17			RED/BROWN V. FINE SAND W/ SOME SILTY CLAY.
40								EOB @ 35.0'

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REPORT

SHEET 1 OF 1

DATE STARTED : 3-30-90 | DATE FINISHED : 3-30-90 | BORING No. MW-7

CLIENT : REXENE | PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS:

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3"x24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								TAN V. FINE SAND (FILL)
	341		0-2	M	1.0			BLACK STAINED CLAY
			2-4	M	2.0			↓ STRONG ODOR.
5				W				GREY STAINE SILTY CLAY
	324		4-6	W	1.75			
			6-8	W	2.0			RED/BROWN SILTY BROWN CLAY W/STRONG PETRO ODOR.
10	212		8-10	W	2.0			
			10-12	W	2.0			
15								EOB @ 14.0'
20								

BORING

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REPORT

SHEET 1 OF 1

DATE STARTED : 3-28-90 | DATE FINISHED : 3-28-90 | BORING No. MW-8

CLIENT : REXENE | PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS:

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61 HSA
SIZE :		3" x 24"						
HAMMER WT / FALL		140/30"		BIT				

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								FILL
	70		0-2	M	1.1			Dk Brown Clay.
								GREY STAINED SILTY CLAY. GAS ODOR
			2-4	M	2.0			
5				W				
	150		4-6	W	2.0			BROWN SILTY CLAY W/ GAS ODOR.
			6-8	W	2.0			
10	250		8-10	W	2.0			
15								EOB @ 14.0'
20								

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REPORT

DATE STARTED : 4-6-90	DATE FINISHED : 4-6-90	BORING No. MW-9
CLIENT : REXENE		PROJECT No : 604-9

PROJECT NAME & LOCATION : PHASE 1 INVESTIGATION - SUNLAND PARK, NEW MEXICO

REMARKS: This boring log will be used for MW-95.

DRILLING CONTRACTOR : I.T. | LOGGED BY: K. McHALE | DRILLER : T. DAVIS

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :		STD.						MOBILE B-61
SIZE :		3" X 24"						
HAMMER WT / FALL		140/30"		BIT				HSA

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT ____ FT. AFTER ____ HRS. ____ FT. AFTER ____ HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								DARK BROWN SILTY CLAY.
	0		0-2	M	1.5	6-6 / 26-16		
								RED/BROWN SILTY V. FINE SAND W/GRAVEL & PEBBLES.
	0		2-4	M	2.0	3-8 / 5-4		
5				W				
	0		4-6	W	2.0	3-3 / 4-3		
	0		6-8	W	2.0	5-3 / 2		
10	0		8-10	W	2.0	8-5 / 5-8		
								RED/BROWN V. FINE TO FINE SAND
15	0		13-15	W	2.0	9-13 / 15		
20	0		18-20	W	2.0	13-18 / 11-18		

PROJECT NAME: PHASE I - BRICKLAND BORING No. MW-9D PROJECT No. 604-9 SHEET 2 of 2

DEPTH BELOW GRADE	OVA READINGS	TYPE AND No.	DEPTH FROM - TO	MOISTURE	BLOW / 6" OR CORE TIME	SAMPLE RECOVERY	STRATA DEPTH / ELEV.	CLASSIFICATION AND REMARKS TRACE = 0-10% LITTLE = 10-20% SOME = 20-30% AND = 35-50%
25	0		23-25	W	9-6 9-12	2.0		RED/BROWN V. FINE TO FINE SAND W/TRACE GRAVEL.
30	0		28-30	W	17-9	2.0		
35	0		33-35	W	15-29 17-11	2.0		EOB @ 35.0'
40								
45								

PROJECT NAME : REXENE - BRICKLAND BORING No. MW-12 PROJECT No. 604-9 SHEET 2 OF 2

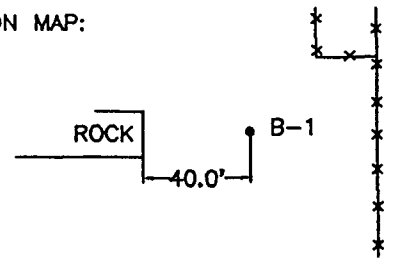
DEPTH BELOW GRADE	OVA READINGS	TYPE AND No.	DEPTH FROM - TO	MOISTURE	BLOW / 6" OR CORE TIME	SAMPLE RECOVERY	STRATA DEPTH / ELEV.	CLASSIFICATION AND REMARKS TRACE = 0-10% LITTLE = 10-20% SOME = 20-30% AND = 35-50%
25								
30								EOB @ 25.0'

Appendix C

Lithologic Logs of Monitoring Wells, Boreholes, and Trenches (GCL, 1994)

LITHOLOGIC LOG (CORE)

LOCATION MAP:



___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

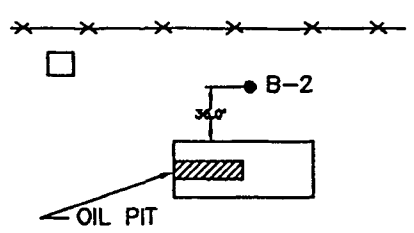
SITE ID: REXENE LOCATION ID: B-1
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM\LEXAN TUBE
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/17/94 DATE COMPLETED: 6/17/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: ONE FOOT AWAY FROM ATTEMPT MADE 6/16/94

LOCATION DESCRIPTION: _____

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
1			PUSH W/ DRILL-ING	0	2	30		SILT AND CLAY LT. BROWN, OR ANGULAR GRAVEL W/ ORGANIC MATERIAL.
2								
3			PUSH W/ DRILL-ING	2	4	60		CLAY REDDISH BRN TO DK BRN. W/O LITTLE < 5% UFN GR SAND, NO STRINGERS OF SAND. MOIST CLAY.
4								
5			PUSH W/ DRILL-ING	4	6	100		CLAY BROWN W/ SOME VERY SMALL SAND POCKETS, AND SOME APPARENT N.C. STAINS UFN. OR SD. (NOT CONTINUOUS LAYERS) MOIST
6								
7			PUSH W/ DRILL-ING	6	8	70		CLAY DK. BROWN, INCREASING SAD, UFN GR, W/S, SUB-ANGULAR, IN POORLY DEFINED LENSES WITHIN THE CLAY, WET
8								* SAMPLE WET BELOW ≈ 6.0' FL IN WELL 3.8' BELOW SURFACE BORING TO BE PLUGGED
9								
10								

LITHOLOGIC LOG

LOCATION MAP:



___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

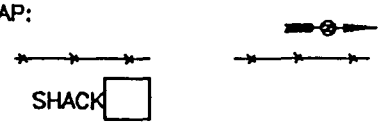
SITE ID: REXENE LOCATION ID: B-2
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM\LEXAN TUBE
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/17/94 DATE COMPLETED: 6/17/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: BORING TO BE PLUGGED

LOCATION DESCRIPTION: _____

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
0								GRAVEL FILL 6" SILT W/ ANGULAR FRAG OF GRAVEL. LT BRN 10 YR 6/2
1			AUGER PUSH	6"	2'	60		CLAY W/ <5% FN GR SAND, BLK, HEAVY STAIN AND ODOR. N2
2								CLAY (AS ABOVE) LESS STAIN AND ODOR SLIGHTLY W/ DEPTH, NO SAND STRINGERS N2
3			AUGER PUSH	2'	4'	60		
4								SAND (AT 4-1/2 FT.) WITH CLAY ≈30% DK. BRN, (HC STAIN) FN GRAIN, W/S, SUB ROUNDED-ROUNDED, (WTR SAND) BTM OF SAND AT 5.75 (WET) SY 4/1
5			AUGER PUSH	4'	6'	100		
6								CLAY, BRN-DK BRN, < 5% SAND INC. W/ DEPTH (WET) TD LITH HOLE AT 8' 5YR 5/2
7			AUGER PUSH	6'	8'	70		
8								CLAY, 5YR 5/2, < 5% SAND, FN GR W/S , SUBANGULAR
9			AUGER PUSH	8'	10'	50		
10								FLUID LEVEL IN HOLE RECOVERED TO ≈

LITHOLOGIC LOG (CORE)

LOCATION MAP:



__1/4 __1/4 __1/4 __1/4 S__ T__ R__

SITE ID: REXENE LOCATION ID: B-3
SITE COORDINATES (ft.):
N 289061.96163 E 1551880.27191
GROUND ELEVATION (ft. MSL): 3131.71
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM\LEXAN TUBE
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/17/94 DATE COMPLETED: 6/17/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS:

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
0								GRAVEL, DEBRIS, FILL
1			PUSH WITH AUGER	6"	2'	40		SANDY SILT V. FN GR ≈ 10% SD DRY, LT BRN 10YR 6/2, ANGULAR, W/G, ROUNDED TO ANGULAR GRAVEL, DEC. W/ DEPTH
2								SAND, FN GRAIN– V. FN GRAIN, ≈ 15% CLAY MOIST, PALE BRN. 5YR 5/2, SUB RND, W/S, RELATIVELY CLEAN.
3								CLAY, NO GRAINS, < 5% SD, MOIST, BLACK, HEAVY STAIN, AND HEAVY ODOR, DENSE. STICKY.
4			PUSH WITH AUGER	2'	4'	40		
5			PUSH WITH AUGER	4'	6'	100		SILTY SAND, V. VN. GR, 10–20% SILT, WITH MINOR CLAY, WET, PALE BRN 5YR 5/2, SUB RND–SUB ANG., WELL SORTED, UNCONSOLID. H.C. ODOR. (SLIGHT)
6								SILTY CLAY, V FN., 10% SILTY, WET PALE BROWN. 5YR 5/2, SAME HYDROC STAINING
7			PUSH WITH AUGER	6'	8'	90		SILTY SAND, V FN, GRN, 20–30% SILT, W/ MINOR CLAY, WET, PALE BRN 5YR 5/2, SUB RND–SUB ANG.
8								
9								
10								TD = 8' WATER LEVEL RECOVERED TO ≈ 2' BELOW SURF.

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-4(MW-14)
SITE COORDINATES (ft.):
N 288993.83608 E 1551953.24319
GROUND ELEVATION (ft. MSL): 3730.40
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/19/94 DATE COMPLETED: 6/19/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: MUCH MOVE SAND IN THIS WELL, CONVERT TO MONITOR WELL #14

LOCATION DESCRIPTION: ___

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
				6"	2'	20		GRAVEL, FILL, DEBRIS SILT. V FN GR, < 10% SAND, 20% GRAVEL DRY, PALE YELLOW BRN (10YR 6/2), ANG, POOR SORT, CONSOLID.
				2'	4' WET AT BASE	70		SILTY CLAY, 20% SILT, <10% SAND, DRY (10YR 5/2) HC STAIN, ANG, CONSOLID.
				4'	6' WET, SANDY SILT PROD	80		SILTY SAND, 40% SILT, V FN GR., WET, DK YELLOWISH BRN, (10YR 4/20) ANG TO SUB-RNDED, W/S, MOD. CONSOLID, NO STAIN/ODOR CLAY, WET, PALE BRN (5YR 5/2) CONSOLID.
								SILTY SAND (AS 3.5-5) NO STAIN OR ODOR
				6'	8' WET SAND/CLAY	100		SILTY SAND, V FN GR, 20% SILT, WET (5YR 5/2) RND, W/S UNCONSOLID.
								SILTY CLAY (SEE 2')
				8'	10' WET SAND	90		SAND, FN GRN. TO MED GR, WET DK, YELLOWISH BRN, (10YR 4/2) SUB RND, W/S, UNCONSOLID (FLOW SAND)
								GREAT DIFFICULTY CATCHING SPLIT SPOON SAMPLE.
				10'	12' WET SAND	50		
					SAND TOO WET TO SAMPLE			
								SAND, MED GR, WET, DK YELLOWISH BRN, (10YR 4/2), RND-SUB RND, WELL SORTED, UNCONSOLID, 80% QTZ. (FLOW SAND)
					MED GR SAND			

LITHOLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-4 (MW-14)

DEPTH	WELL CONST.	LITH.	SAMPLE					LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			USCS	FROM	TO	% REC	NUMBER OR PID READING	
22								SAND AS ABOVE
24								TD = 23'
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE SITE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-5
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM\LEXAN TUBE
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/17/94 DATE COMPLETED: 6/17/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: _____

LOCATION DESCRIPTION: _____

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
1			AUGER PUSH	6"	2'	30		GRAVEL, FILL AND DEBRIS SANDY SILT, V. FN FRN, < 10% SAND, WITH ≈ 10% CLAY, DRY. LT BRN, (10YR 6/2), ANGULAR, M/5, SAME SMALL GRAVEL
2								
3			AUGER PUSH	2'	4'	40		SILTY CLAY, V. FN GRN, ≈ 20–30% SILT, DRY, PALE BRN. (5YR 5/2), SUBRND. W/S, DENSE, STICKY. STAINED (HC) AT TOP OF UNIT, AND AT BASE, REL. CLEAN
4								
5			AUGER PUSH	4'	6'	90		CLAYEY SILT. V FN GRN, ≈ 50% CLAY, MOIST, DK BRN (HC STAINED), ROUNDED, W/S, STRONG HC ODOR. SILTY SAND, V FN GRN, ≈ 40% SILT, WET, GRAYISH BRN (5YR 3/2), SUB–RND TO ANG, WELL SORTED, UNCONSOL. HC ODOR.
6								
7			AUGER PUSH	6'	8'			SANDY SILT, V FN GRN, ≈ 30% SAND WET, PALE BRN (5YR 5/2) ANGULAR W/S, UNCONSOLID. TO REL CONSOLID, NO HC STAIN, SLIGHT HC ODOR TD = 8'
8								
9								
10								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-6
SITE COORDINATES (ft.):
N 289167.85159 E 1552005.02334
GROUND ELEVATION (ft. MSL): 3731.37
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: ADJACENT TO WP # 29

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
0	WELL POINT 29 SCREEN							GRAVEL, DEBRIS AND FILL
1				0"	2'	30		SANDY SILT, V FN GRAIN, ≈ 20% SILT, DRY, LT BRN (10YR 6/2) ANGULAR, M/S, CONSOLID. ANGULAR GRAVEL, SALT.
2								SILTY CLAY, V. FN GRAIN, < 10% SILT, MOIST NEAR BOTTOM, GRAYISH BRN, (5YR 3/2) SUB-RND, W/S, HS ODOR NO SIGNIF. STAINING.
3				2'	4'	100		SILTY SAND, V. FN. GR. 20-30% SILT, WET, PALE BRN (3YR 5/2) SUB-ANG, W/S. (HC ODOR) UNCONSOLID, NO SIGNIF. STAIN.
4								
5				4'	6'	80		SILTY CLAY V FN. GR. ≈ 20% SILT, WET PALE BRN (5YR 5/2) SUB-RND, W/S.
6								SILTY SAND (AS ABOVE 3-5') SILTY CLAY (AS 5-5.5')
7				6'	8'	100		SAND, FN GRAIN, < 10% SILT, WET, PALE BRN (5YR 5/2) RND, W/S, HC ODOR, NO STAIN.
8								TD = 8'
9								* LEL TO 1% DURING DRILLING FLUID LEVEL AFTER DRIL ≈ 1.0" B.S.
10								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-7
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: _____

LOCATION DESCRIPTION: SAGE BRUSH AND DEBRIS. APPARENT SALT AT SURF.

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
1			PUSH WITH AUGER	6"	2'	15		GRAVEL, FILL MATERIAL SANDY SILT, FN GRAIN, 20% SAND, DRY, YELLOWISH BRN (10YR 5/4), ANGULAR, MED SORT (M/S), MOD. CONSOLID. SAND INC W/DEPTH. HC STAIN AT BASE OF UNIT.
2								
3			PUSH WITH AUGER	2'	4'	70		SILTY CLAY, V FN GRN, <10% SILT, DRY, GRAYISH BRN (5YR 3/2), RND, W/S, MOD. CONSOLID. MOTTLED HC STAINING
4								
5			PUSH WITH AUGER	4'	6'	90		SILTY SAND, FN GRN, 10% SILT, WET, YELLOWISH BRN (10YR 4/2), RND–TO WELL ROUDN, W/S, UNCONSOLID., THIN ZONE, WATER SAND. SILTY CLAY, V. FN. GRN, <10% SILT, WET, GRAYISH BRN (5YR 3/2), RND–SUB RND, W/S, SLIGHT HC ODOR, NO SIGNIF STAIN.
6								
7			PUSH WITH AUGER	6'	8'	10		COULD NOT CATCH WET SAMPLE. APPEARED SANDIER THAN ABOVE UNIT, (CUTTINGS) WET.
8								FL ≈ 1.0 FT B.S. TD = 8'
9								
10								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-8
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: NEAR DUMPSITE

LOCATION DESCRIPTION: _____

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
0								GRAVEL, DEBRIS, SANDY FILL, BROWN, NO STAIN OR ODOR.
1				6"	2'	50		SANDY SILT, FINE GRAIN SD, ≈ 10% SAND, DRY, YELLOW BRN, (10YR 5/4) ANGULAR, M/S, CONSOLID. W/ ANGULAR, PEBBLE GRAVEL
2								SILTY CLAY, V FN GRAIN, 20–30% SILT, MINOR SAND, DRY, DUSKY YELLOWISH BRN (10YR 2/2) (HC STAINED), ANGULAR GRNS, W/S, CONSOLID, STRON HC ODOR AND STAIN.
3				2'	4'	25		
4								SILT, V FN GRAN, (W/ INTERBEDD– 6" SILTY CLAY BEDS) WET, BLACK (HC STAIN) ANG–SUB RND, W/S, GRAINS, MOD. CONSOLID, STRONG HC ODOR AND STAIN.
5				4'	6'	80		
6								SILTY SAND, V FN GR, 10–20% SILT. MINOR CLAY, WET, GRAYISH BRN, (5YR 3/2) RND–SUB RND, W/S, GRN, UNCONSOLID. HC STAIN AND ODOR IN UPPER UNIT, NO STAIN IN LOWER FOOT. TD = 8'
7				6'	8' WET SAND	90		
8								
9								
10								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-9
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: HEAVY BRUSH, NO GRAVEL, LESS DEBRIS

LOCATION DESCRIPTION: _____

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
1				6"	2'	30		SILTY FILL, ORGANIC MATERIAL AND DEBRIS SANDY SILT, V. FN GR, 20% SAND, CLAY DK YELLOWISH BRN (10YR 5/4) ANGULAR, MED/SORT, CONSOLID.. NO STAIN, OR ODOR.
2								
3				2'	4'	30		SILTY SAND, FN GRAIN, 30% SILT, DRY, GRAYISH BRN (5YR 5/2), RND-SUB RIND, W/S, MOD. CONSOLID, NO ODOR OR STAIN. WET AT BTM. OF UNIT.
4								
5				4'	6'	100		SILTY CLAY, V,V, FN GR, 30-40% SILT, WET, GRAY (N4)(HC STAIN), WELL SORT, MOD. CONSOLID., LENSES OF LIGHT GRAY CLAY.
6								SILTY SAND, V. FN GR, 20% SILT, WET GRAYISH BRN (5YR 5/2) RND-SUB RND, W/S, MOD CONSOLID, NOT STAIN OR ODOR.
7				6'	8'	90		SILTY CLAY, V FN GR, 10% SILT WET, GRAYISH BRN (5YR 5/2), W/S. NO STAIN OR ODOR. SILTY INCREASE SLIGHTY W/ DEPTH. TO TD OF 12'.
8								
9				8'	10'	90		
10								

LITHOLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-9

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE NUMBER OR PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
11				10	12	90		
12								TD = 12' (SAME LITH)
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

LITHOLOGIC LOG (CORE)

LOCATION MAP:

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-10
SITE COORDINATES (ft.):
N 288429.59539 E 1552201.23136
GROUND ELEVATION (ft. MSL): 3733.52
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/20/94 DATE COMPLETED: 6/20/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: BORING IN SAND AREA, USED TRACK HOE TO MOBILIZE RIG (NEAR WP 30)

LOCATION DESCRIPTION: SAND DUNED W/ SOME SPARSE VEG.

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			AUGER PUSH					SAND, MED GR., <10% CLAY, DRY, PALE YELLOWISH BRN. (10YR 6/2), ANGULAR–SUB ANG, MED SORT, UNCOSOLID. (DUNES)
1				0	2	40		
2								
3				2	4	40		SAND, MD–FN GRN, ≈ 20% SILT, DRY, MOD. YELLOWISH BRN (10YR 5/4), SUB ANG–SUB RND, MOD. SORTED, UNCONSOLID.
4								SILTY CLAY, V FN GRN. 40% SILT, MOIST, PALE YELLOWISH BR. (10YR 6/2), CONSOLID. NO HC STAIN OR ODOR.
5				4	6	30		
6								SILTY CLAY, V. FN GR, <10%, SILT, DRY , GRAYISH BRN (5YR 7/2), CONSOLID. NO HC ODOR, STAIN AT BASE.
7				6	8	30		
8								
9				8	10	70		SILTY SAND, V. FN GR, ≈ 20% WILT, WET, BROWNISH GRAY (5YR 4/1), ANG–SUB ANG, W/S, MOD CONSOLID, STRONG HC ODOR, POSS. HC STAIN.
10								SANDY SILT, V FN GR, <10% SAD, WET PROD PRESENT CONSOLIDDATED (5YR 3/2)

LITHOLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-10

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE NUMBER OR PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
11				10	12	60		
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

LITHLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-11
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/20/94 DATE COMPLETED: 6/20/94
FIELD REP.: DALE LITTLEJOHN
COMMENTS: _____

LOCATION DESCRIPTION: SAND DUNES

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								NO SAMPLE, SPUD IN SAND (AS BELOW)
2				0	2	30		SAND, MED GRAIN, <5% SILT, DRY, PALE BROWN (5YR 5/2) RNDED – SUB RND, WELL SORTED, UNCOSOLIDATED, NO ODOR OR STAIN.
4				2	4	80		
6				4	6	40		SILT. V. FN GRN, <10% CLAY, MOIST, BLACK, HC STAINED, W/S, MOD. CONSOLIDATION, STR HC ODOR.
8				6	8	30		SILTY SAND, F FN GRN, 30% SILT, MINOR CLAY, WET, HEAVY HC STAIN AND ODOR (BLACK), SUB RND, W/S, MOD CONSOLIDATION.
10				8	10	90		SAND, VN GR, <10% SILT, WET, PROD. SATURATED, DK GRAY – BLK (HC STAIN) RND – SUB RND, W/S, MOD. CONSOLID TO UNCONSOLID. (STRONG HC ODOR/FREE PRODUCT.
12				10	12	100		SILTY CLAY, 10% SILT, DK BRN, MOTTLED WITH HC STAINING (BLK). MOD CONSOLID. STRONG HC ODOR.
14								TD = 12'
16								
18								
20								

LITHOLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-12 (MW-16)

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE NUMBER OR PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
22								NO SAMPLES BELOW 22' (FLOW SAND)
24								
26								
28								* AQUIFER APPEARS TO BE CONFINED BY CLAY AT 8-11 FT. B.S.
30								
32								
34								
36								
38								
40								
42								
44								
46								

LITHOLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-13A

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE NUMBER OR PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
22								SAND. FN-MED GRAIN, BLACK (HC STAINED) FREE PRODUCT PRESENT TO TD. RND-SUB-RND, W/S. UNCONSOLIDATED, "FLOWING" - NO SPOON SAMP. DESCRIPTION FROM CUTTINGS.
24								
26								
28								
30								
32								TD = 32'
34								* AQUIFER APPEARS TO BE UNCONFIRMED IN THIS AREA
36								
38								
40								
42								
44								
46								

LITHOLOGIC LOG (CORE)

LOCATION MAP: SEE MAP

___1/4 ___1/4 ___1/4 ___1/4 S___ T___ R___

SITE ID: REXENE LOCATION ID: B-14 (MW17)
SITE COORDINATES (ft.):
N 288730.82473 E 1552304.16481
GROUND ELEVATION (ft. MSL): 3732.04
STATE: NEW MEXICO COUNTY: DONA ANA
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: GEO PROJECTS
DATE STARTED: 6/20/94 DATE COMPLETED:
FIELD REP.: DALE LITTLEJOHN
COMMENTS:

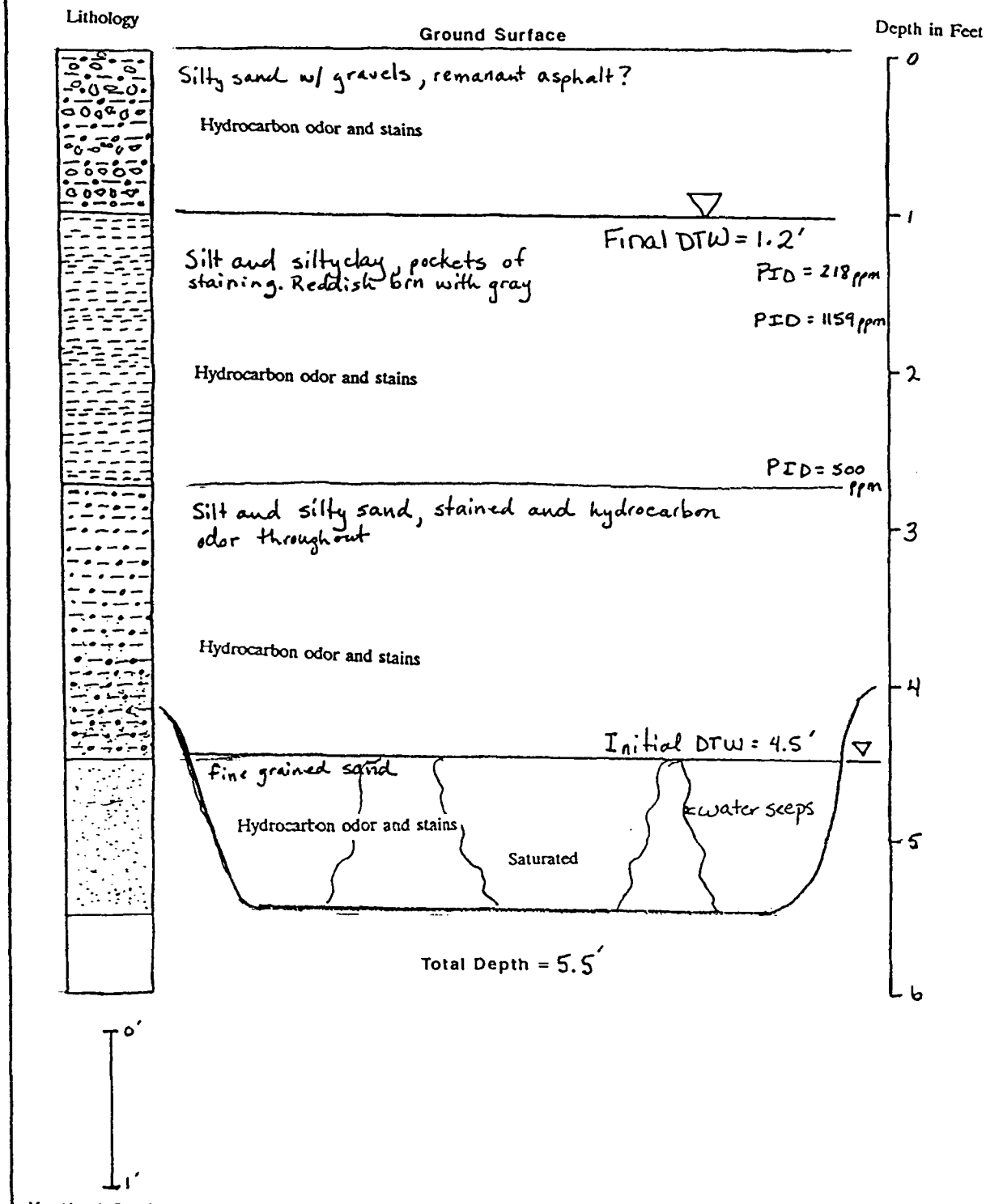
LOCATION DESCRIPTION: SITE LOCATED ON SAND AND GRAVEL HILL ≈ 1FT. ABOVE SURROUNDING AREA

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			PUSH W/ AUGER	0	2'	60		SILTY SAND, V FN GR, ≈ 20% SILT, DRY PALE YELLOWISH BRN (10YR 6/2), ANGULAR, W/S, UNCONSOLID, BLOW SAND.
2				2	4'	30		SILT, SAND. V FN GR ≈ 30–40% SILT, DRY, PALE BRN (5YR 5/2), SUB ROUND, W/S, UNCONSOLID. W/SM GRAVEL.
4				4'	6	100		MISSING, BELIEVE TO BE SANDY SILT, PALE YELLOWISH BRN (10YR 6/2), CONSOLID.
6				6	8	10		SILTY CLAY, 20% SILT, V. FN GR, DRY, GRAYISH BRN, (5YR 3/2), CONSOLID, ANG. W/S CLAYEY SILT, V. FN GR, 30–40% CLAY, <5%
8				8	10	100		SAND, WET, DK YELLOWISH BRN, (10YR 4.2), SUB RND, W/S, HC STAIN. SILTY SAND, V FN GRAIN, 20% SILT, WET DK YELLOW BRN (10YR 4/2), SUB RND, W/S, NO STAINING
10				FLOWING SAND, NO CATCH SAMP.				SILTY CLAY, 40% SILTY, WET. (10YR 4/2)
12				SAMPLE DESCRIP BASED OIL SPLIT SPOON ATTEMPTS (SAND FLOWING OUT OF AUGER) AND, SOIL ON BOTTOM FLIGHT OF AUGER.				SILTY SAND, 30% SILT (DEC W/ DEPTH) WET DK YELLOWISH BRN (10YR 4/2), RND TO SUB-ROUNDED, W/S. UNCONSOLID. NO STAIN OR ODOR.
14								V FN GRAIN SAND TO 16' INCREASING TO FN GR AT TD. SILT CONTENT DEC. TO ≈ 10% AT TD.
16								
18								SAND SEE NOTE.
20								

LITHLOGIC LOG (CORE)
(Continued)

LOCATION ID: B-14 (MW-17)

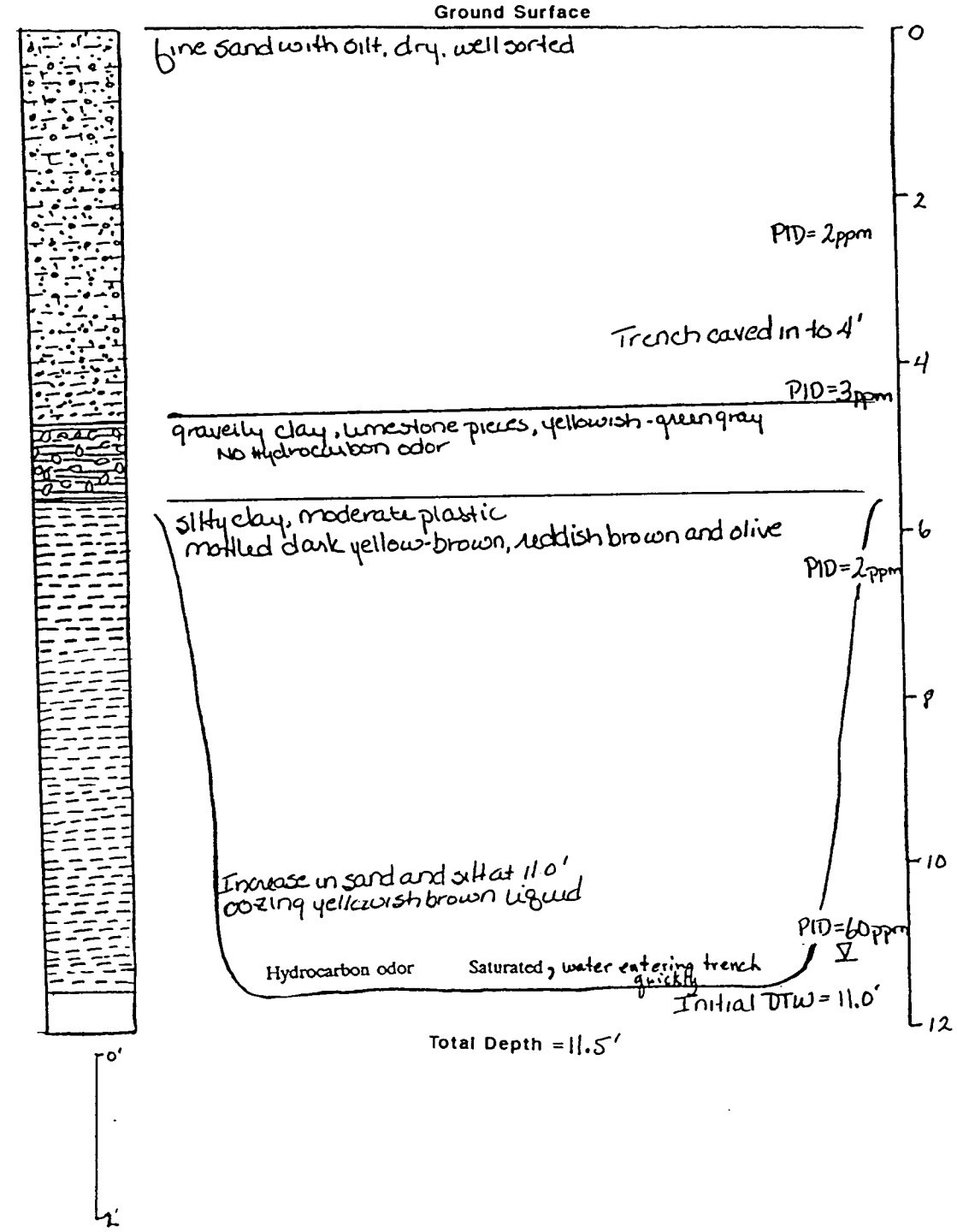
DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE % REC	SAMPLE NUMBER OR PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
22								SAND AS ABOVE.
24								TD = 24'
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								



Vertical Scale: 1" = 1'
Horizontal Distance Not to Scale

GCL

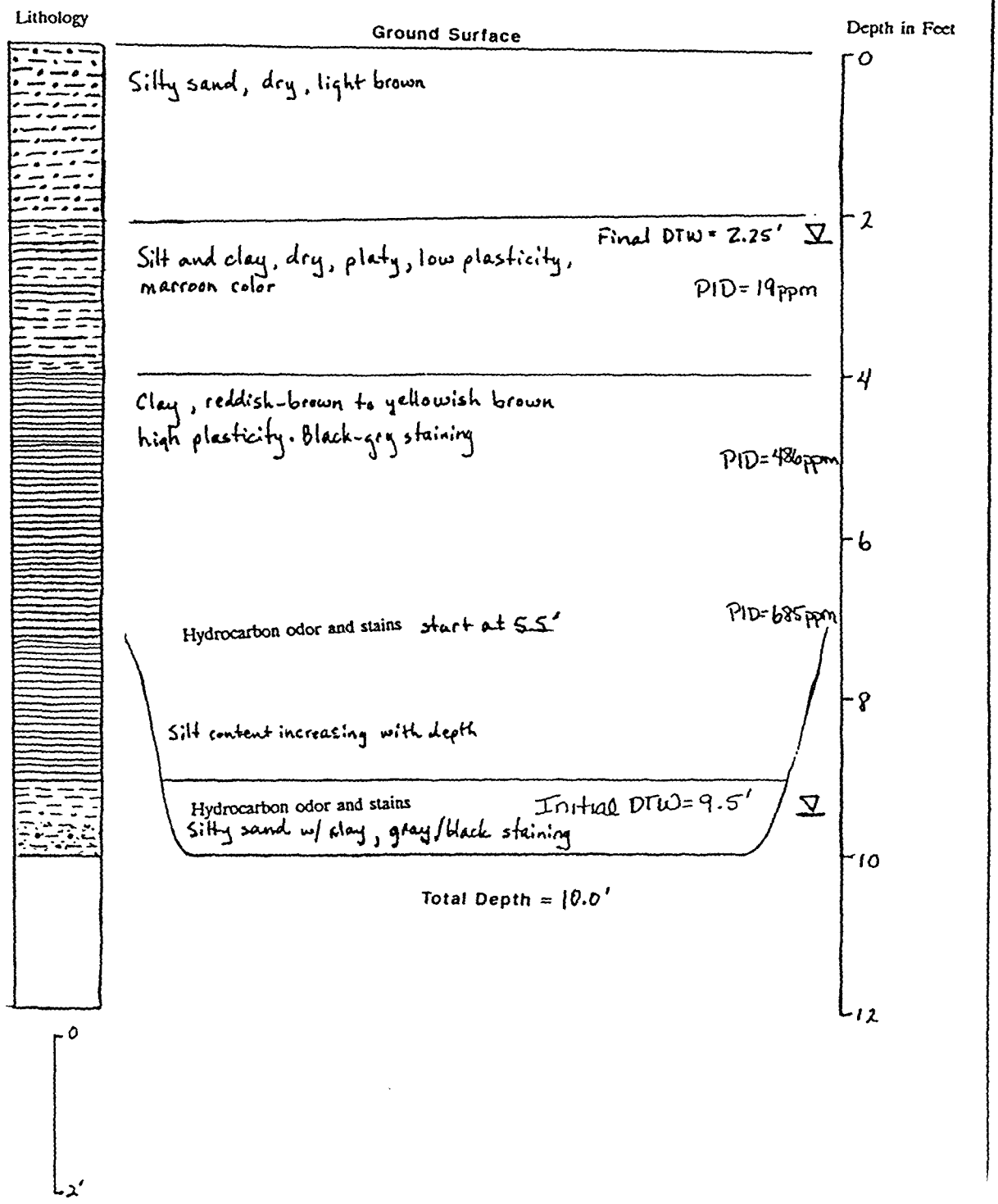
TRENCH TR-01



Vertical Scale: 1" = 1'
Horizontal Distance Not to Scale

GCL

TRENCH TR-05



Vertical Scale: 1" = 2'
Horizontal Distance Not to Scale

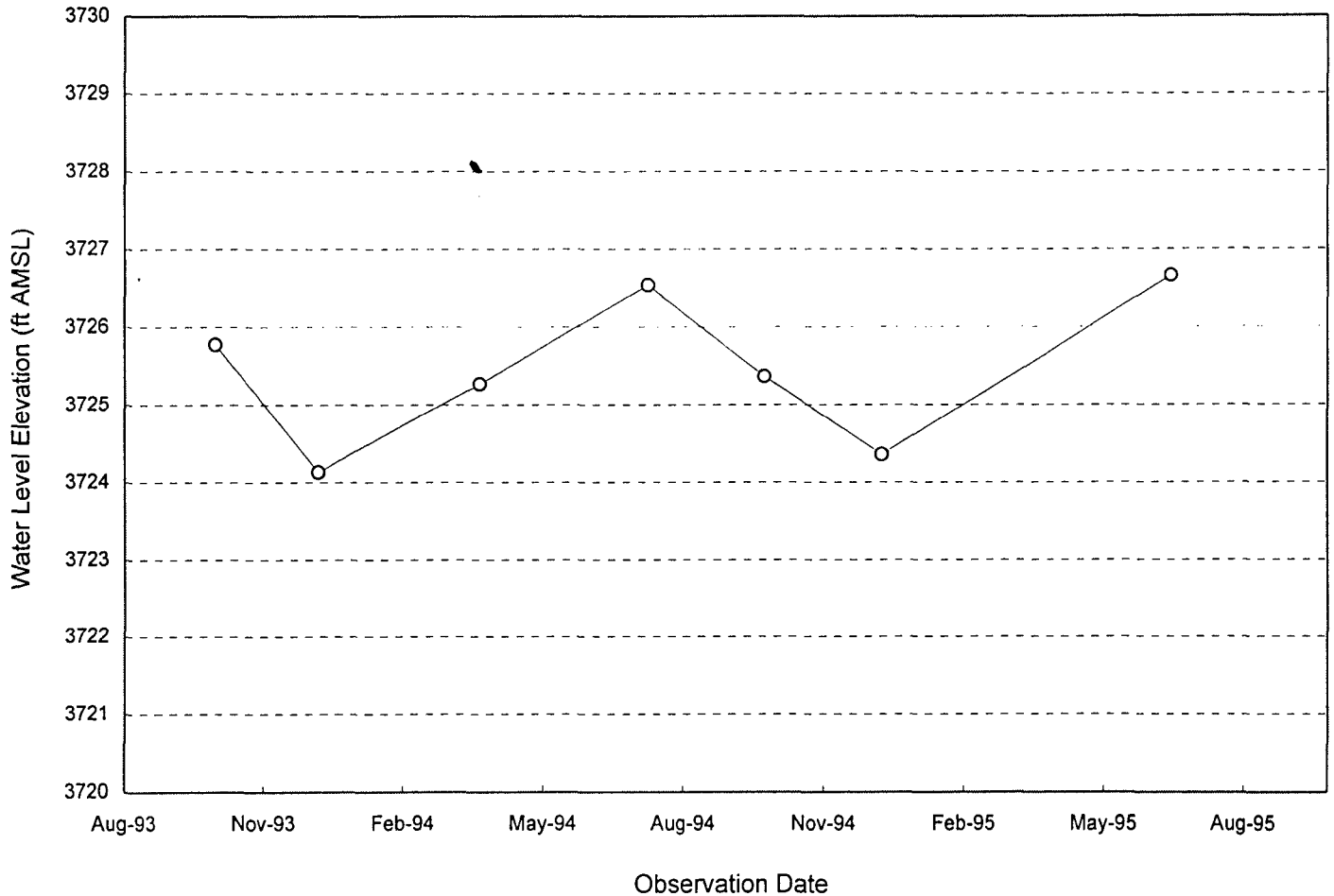
GCL

TRENCH TR-06

Appendix D

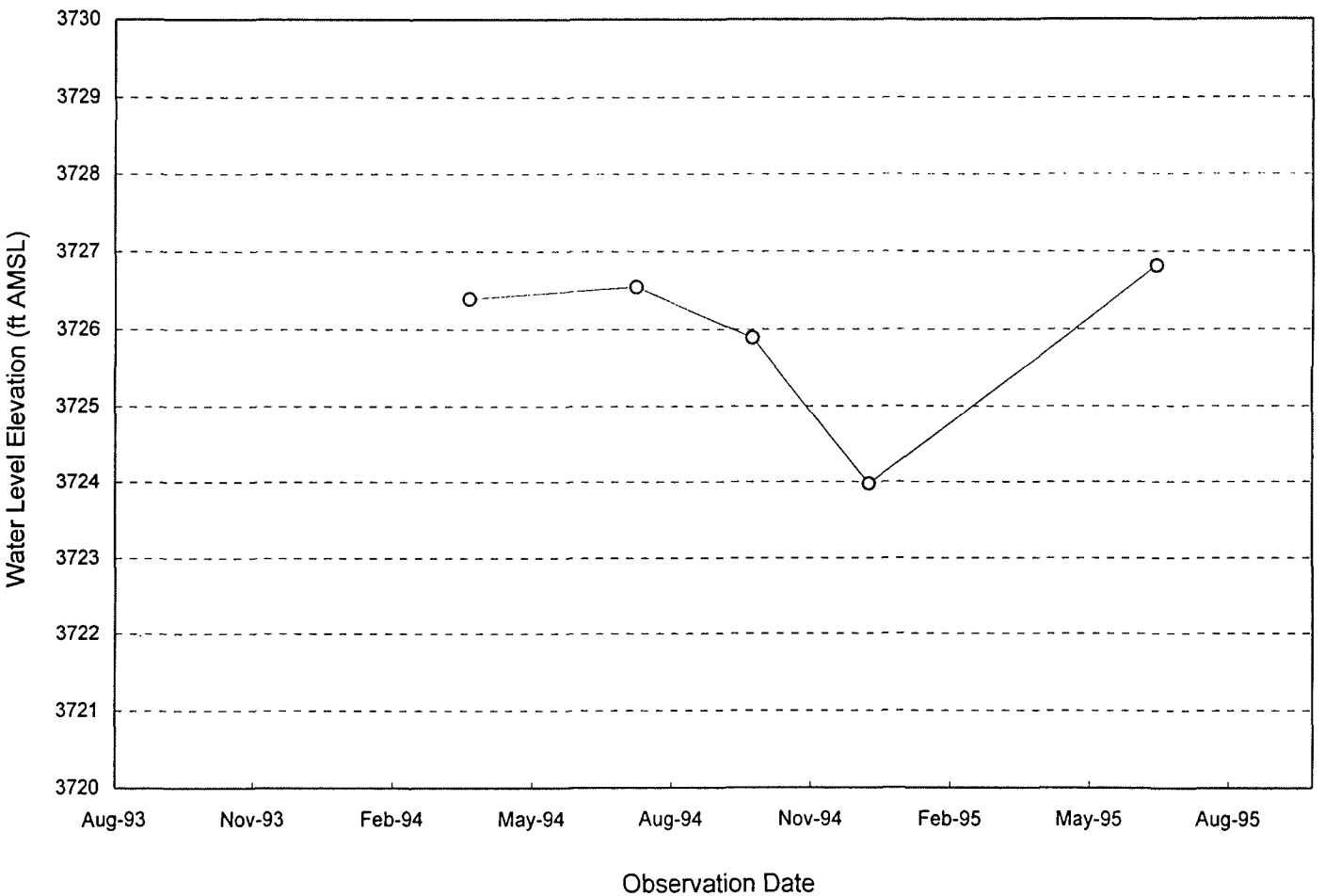
Water Levels vs. Time for Monitoring Wells MW-1 through MW-17

Water Level vs. Time (MW-1)



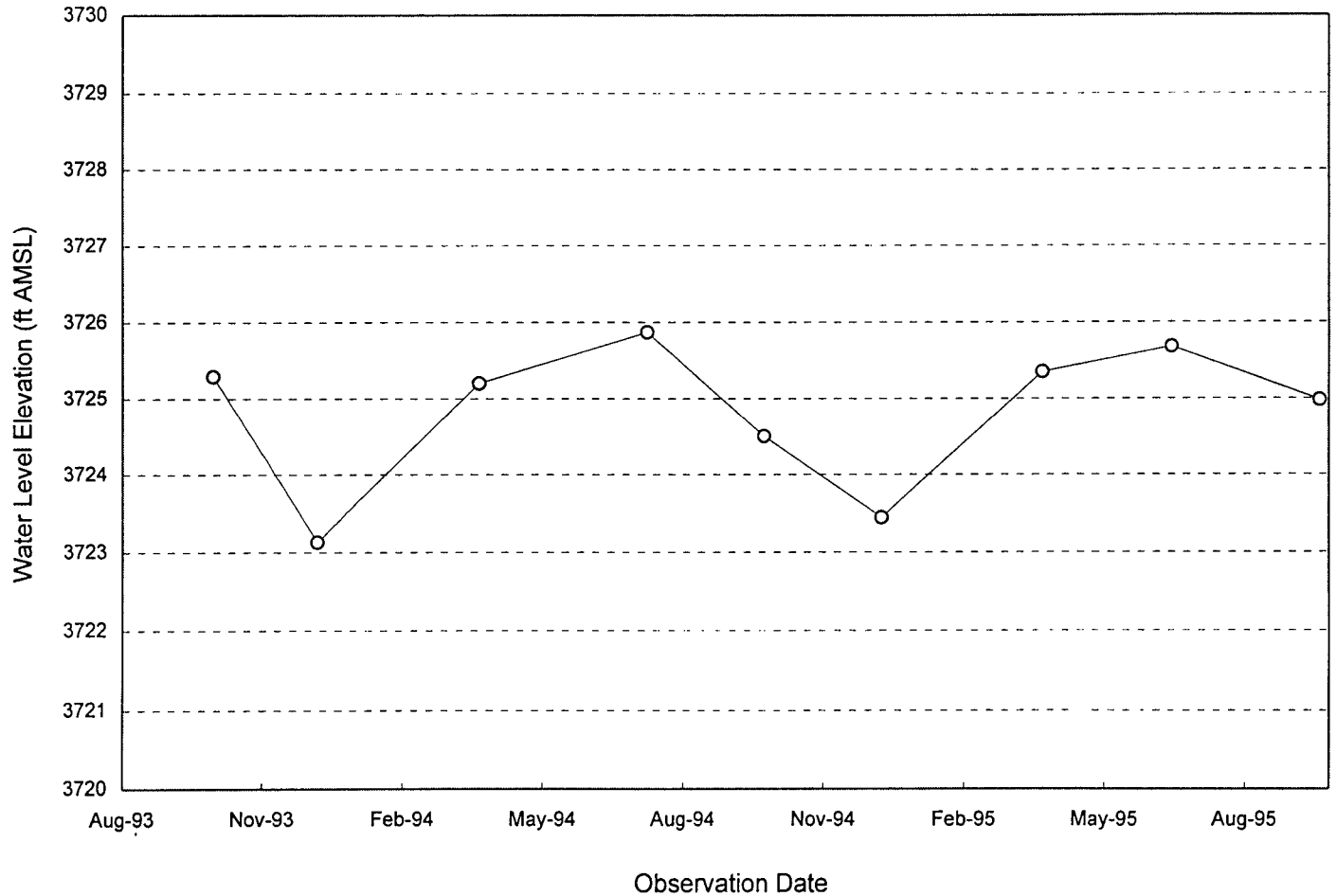
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-2)



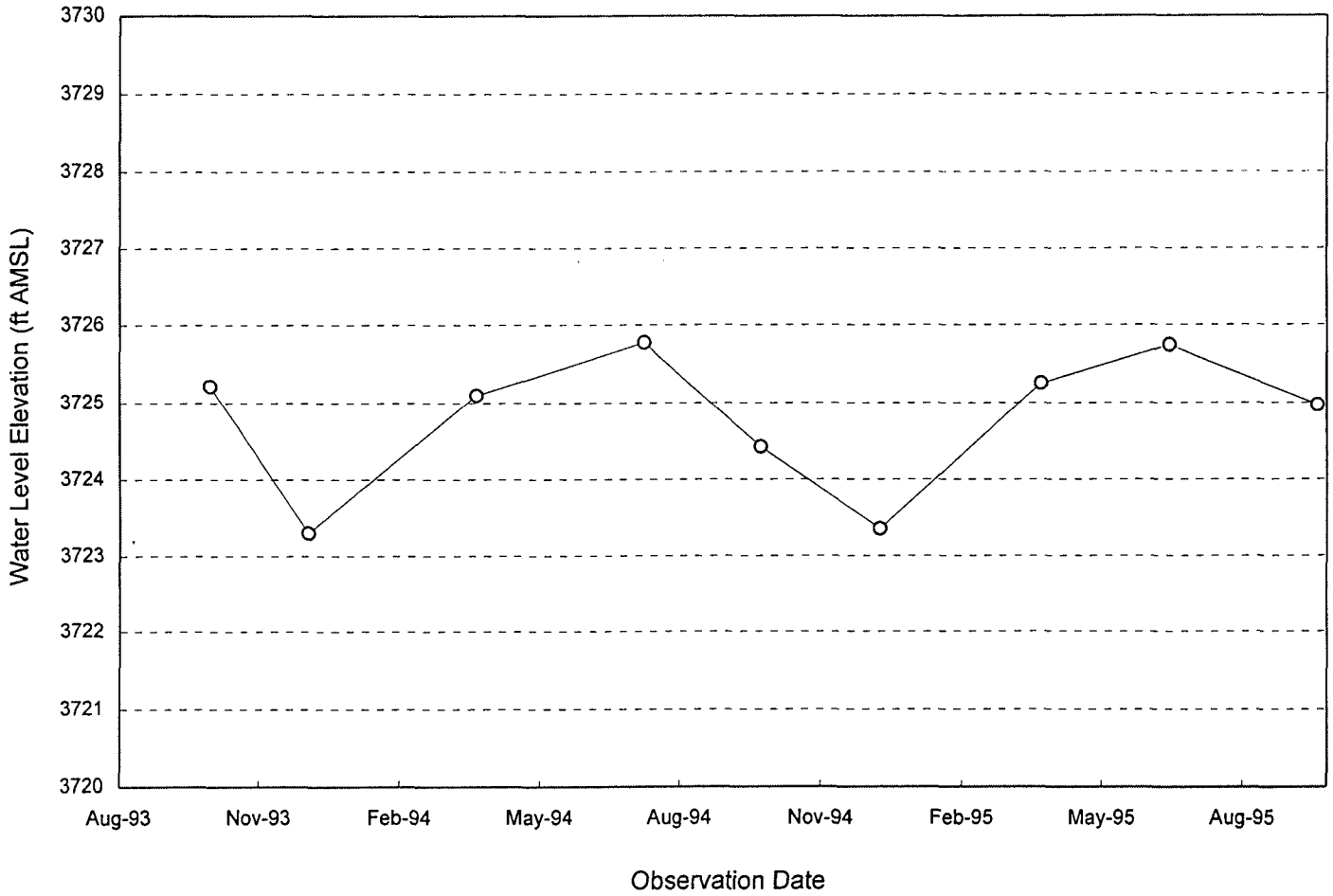
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-3S)



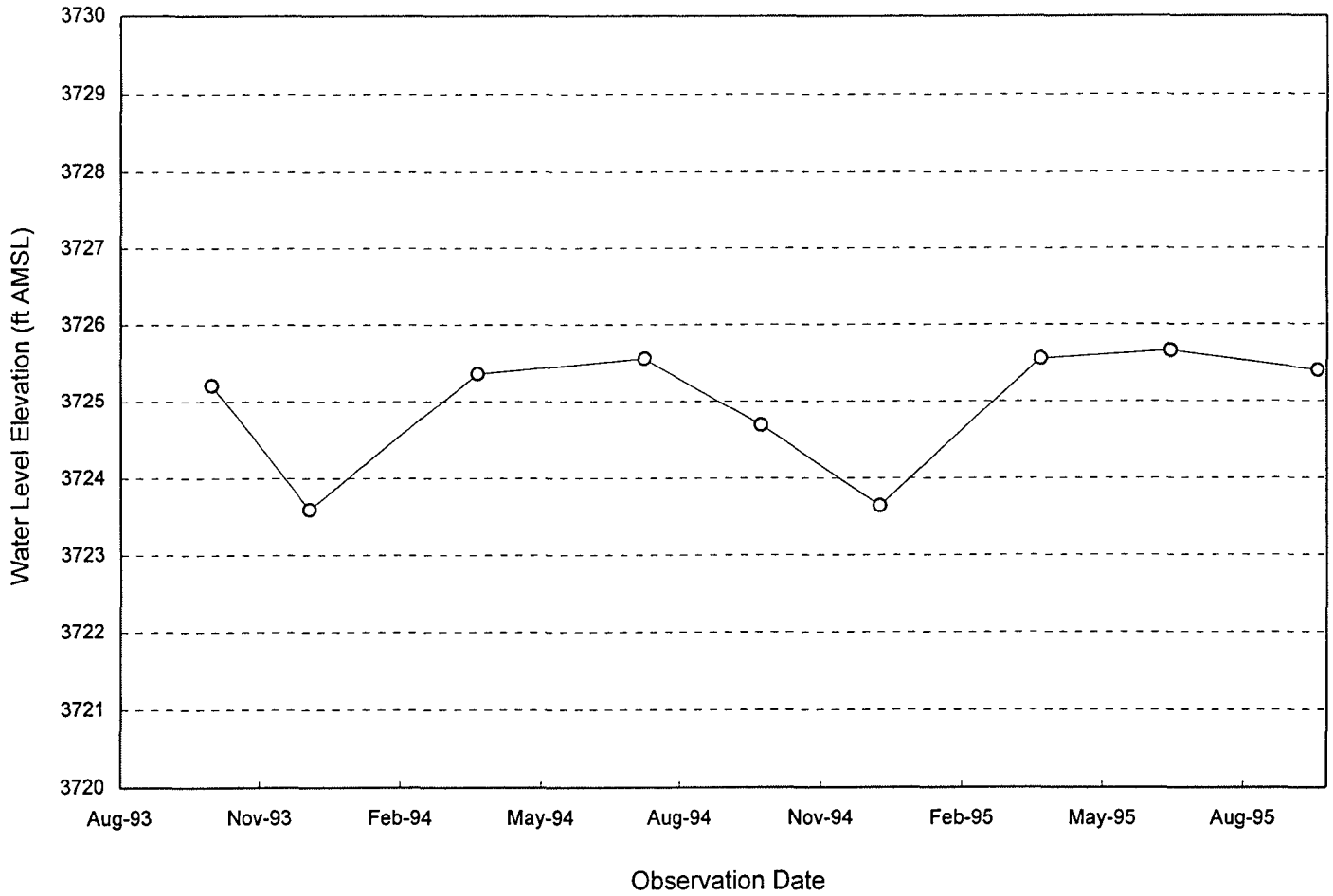
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-3D)



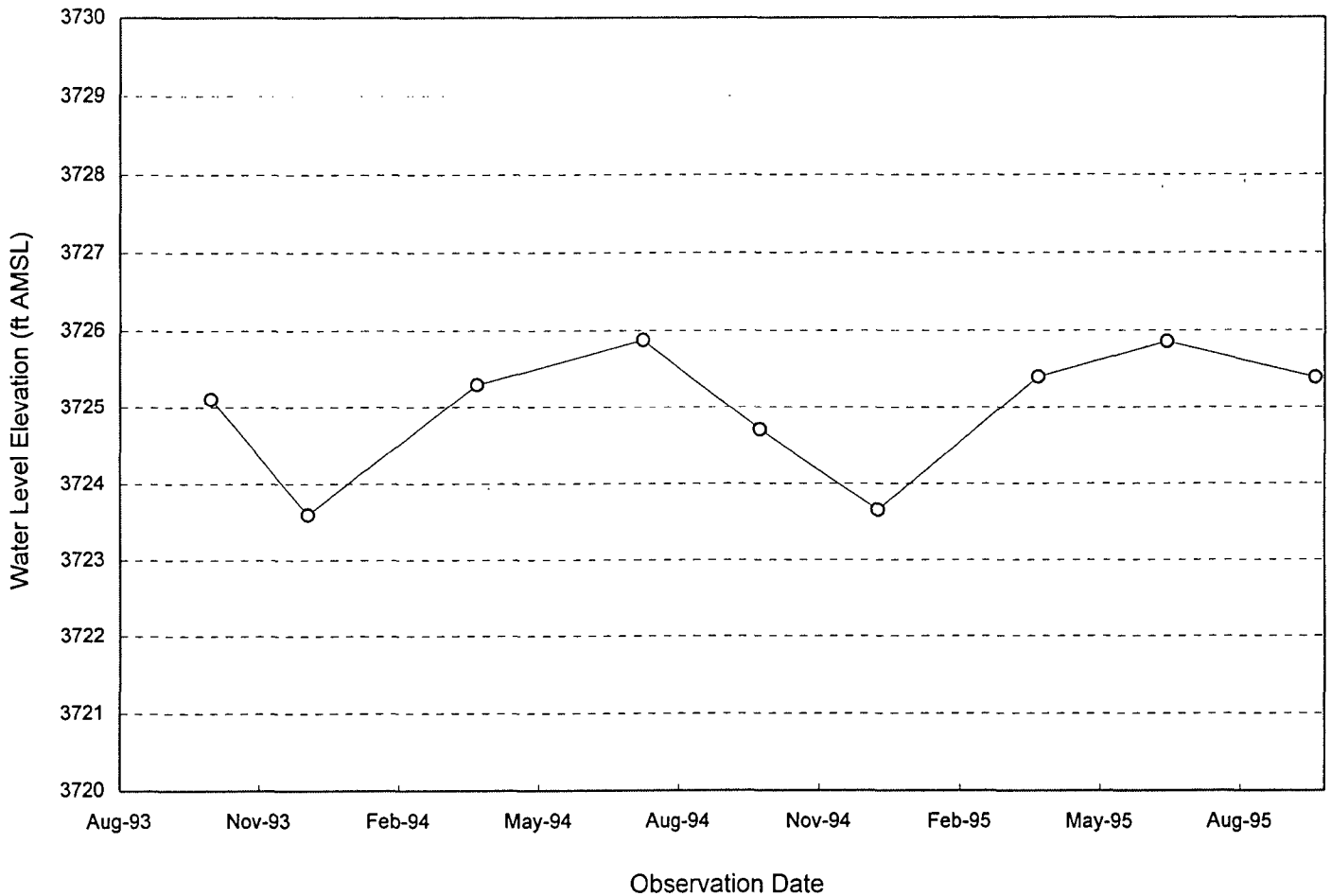
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-4)



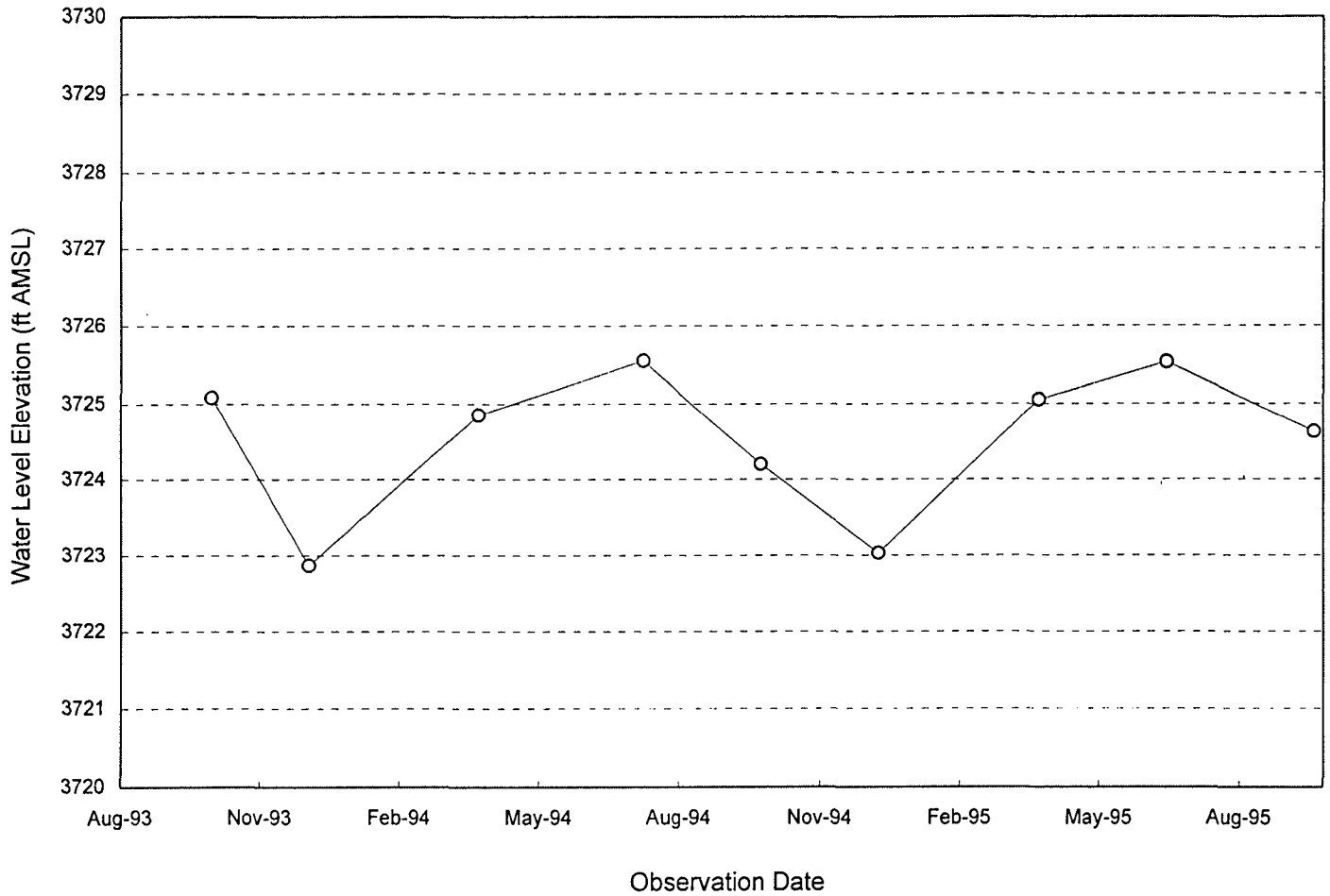
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-5)



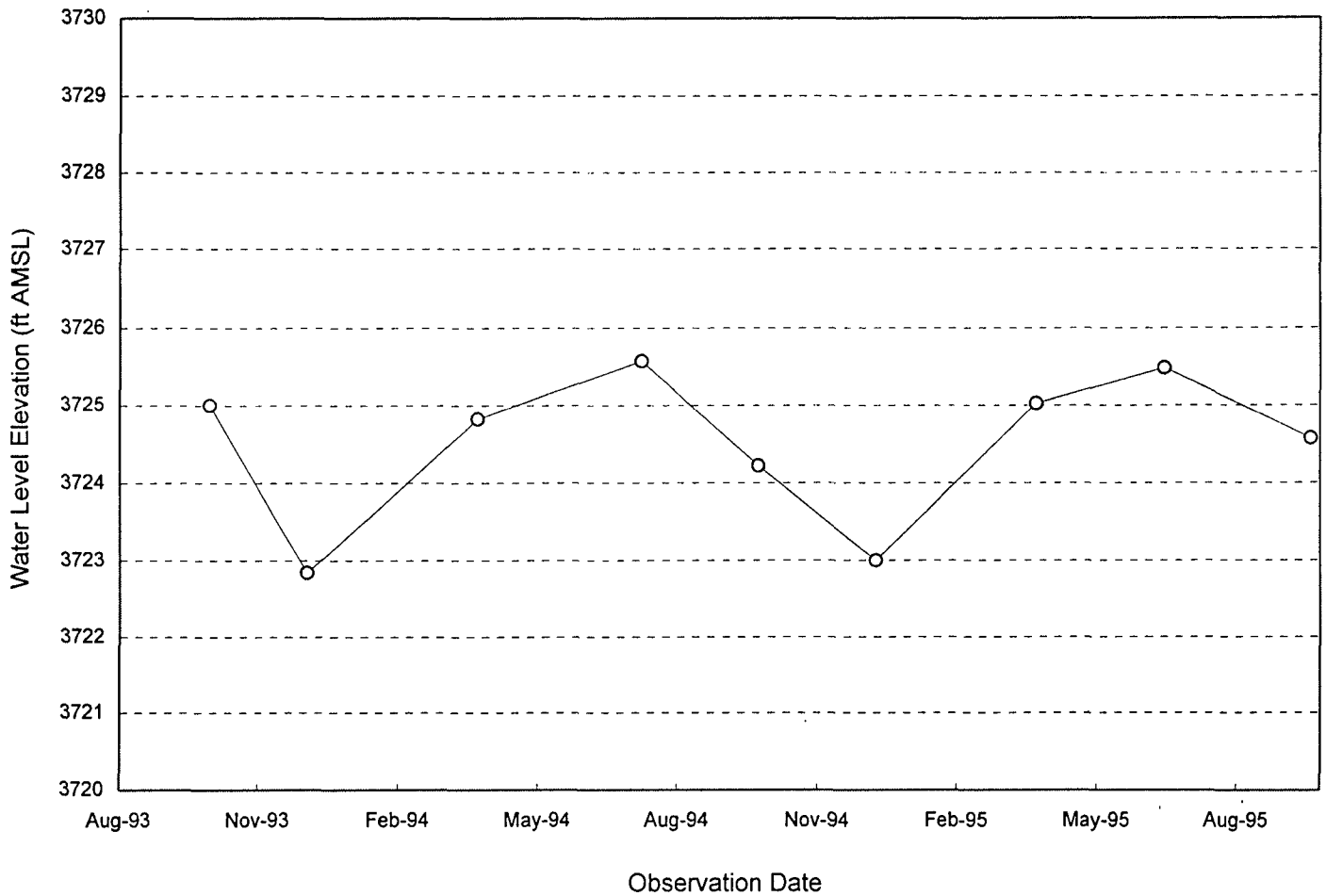
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-6S)



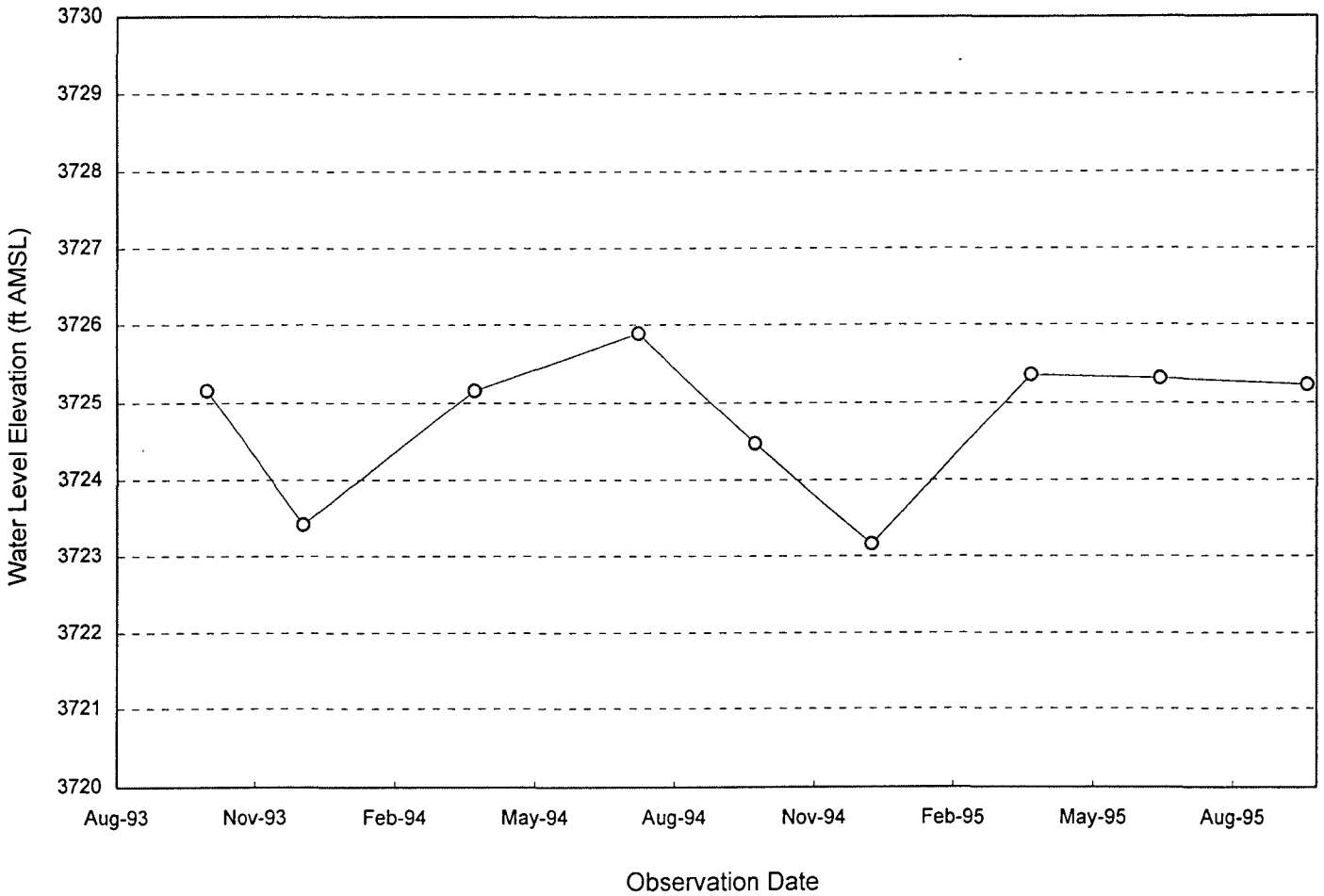
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-6D)



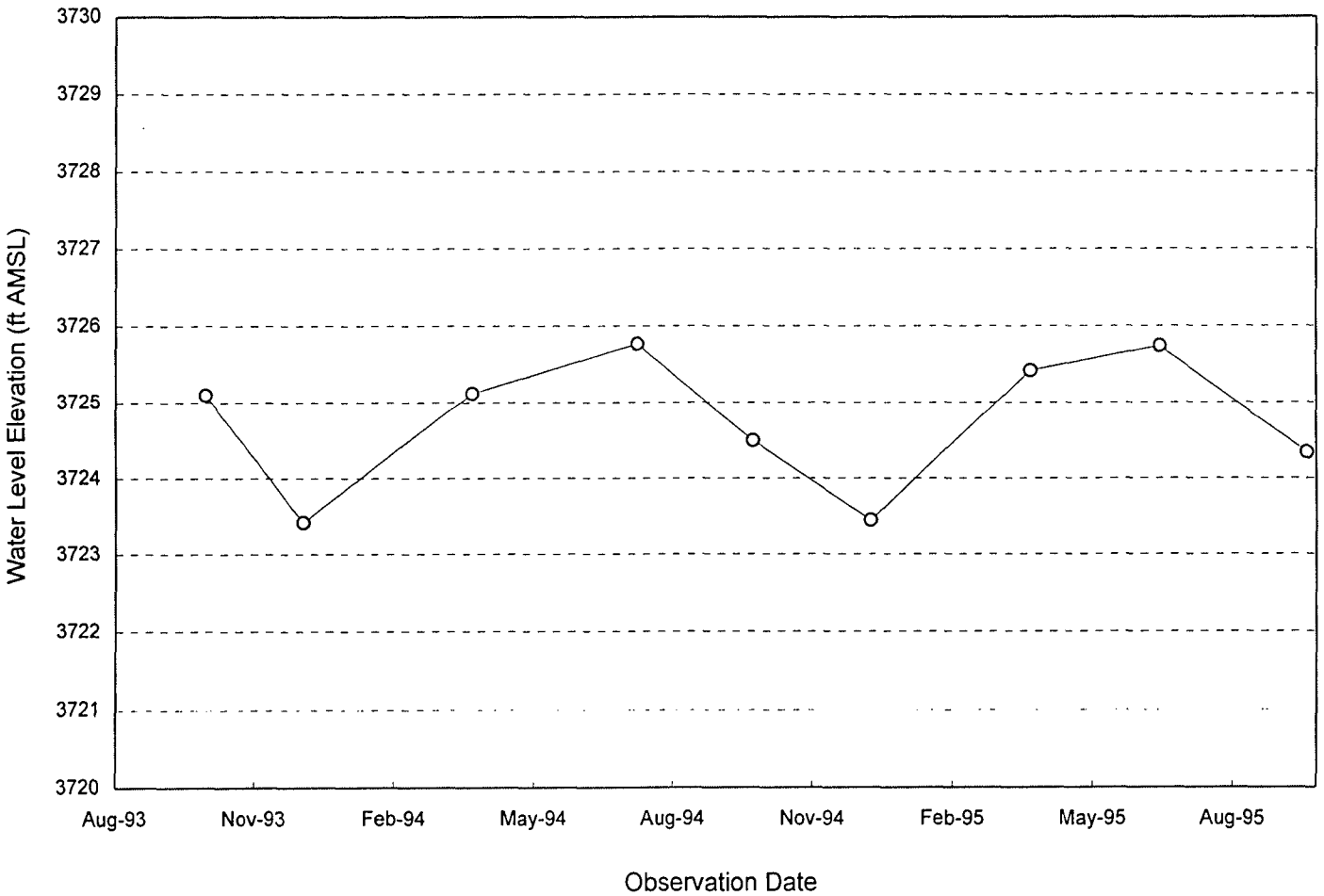
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-7)



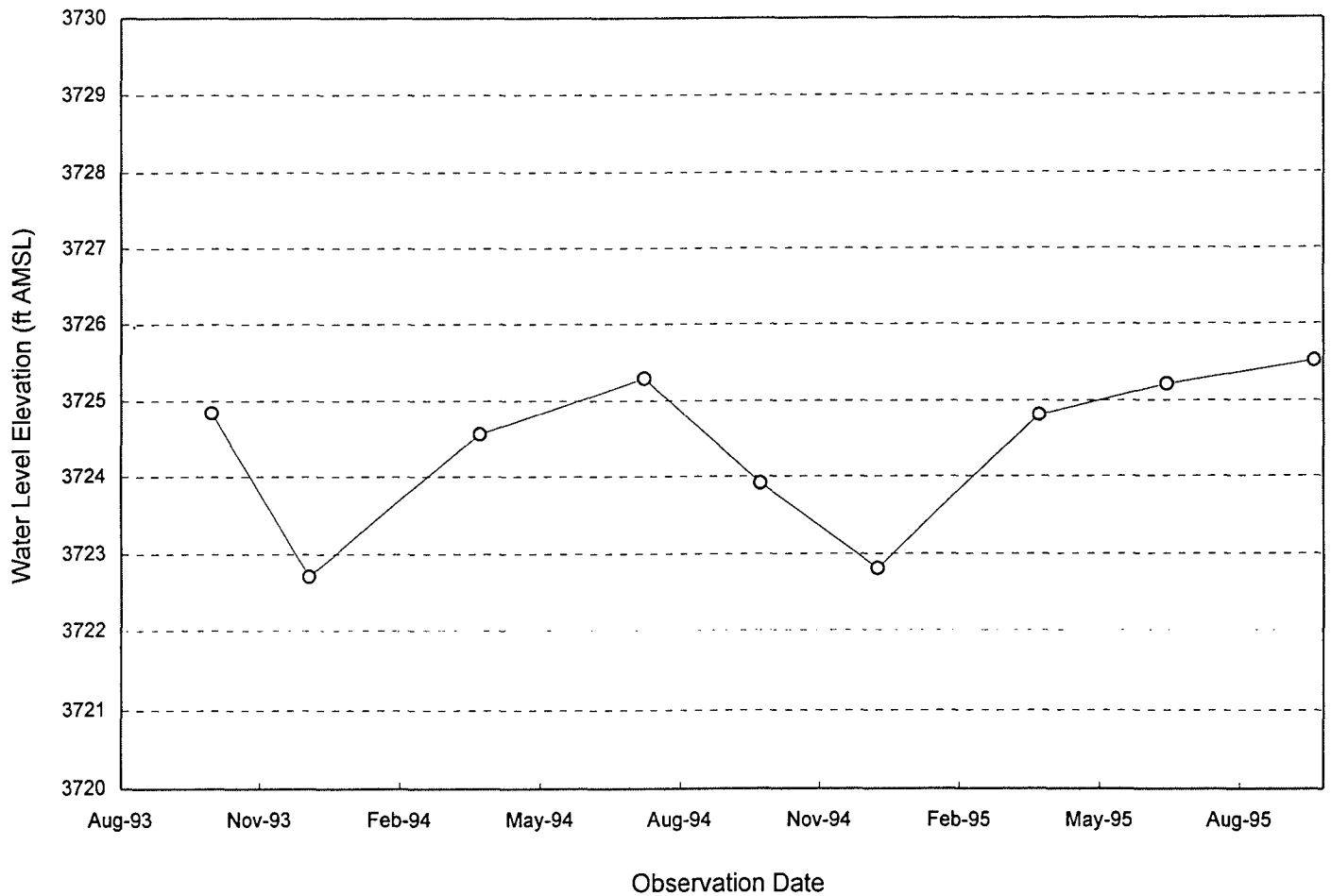
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-8)



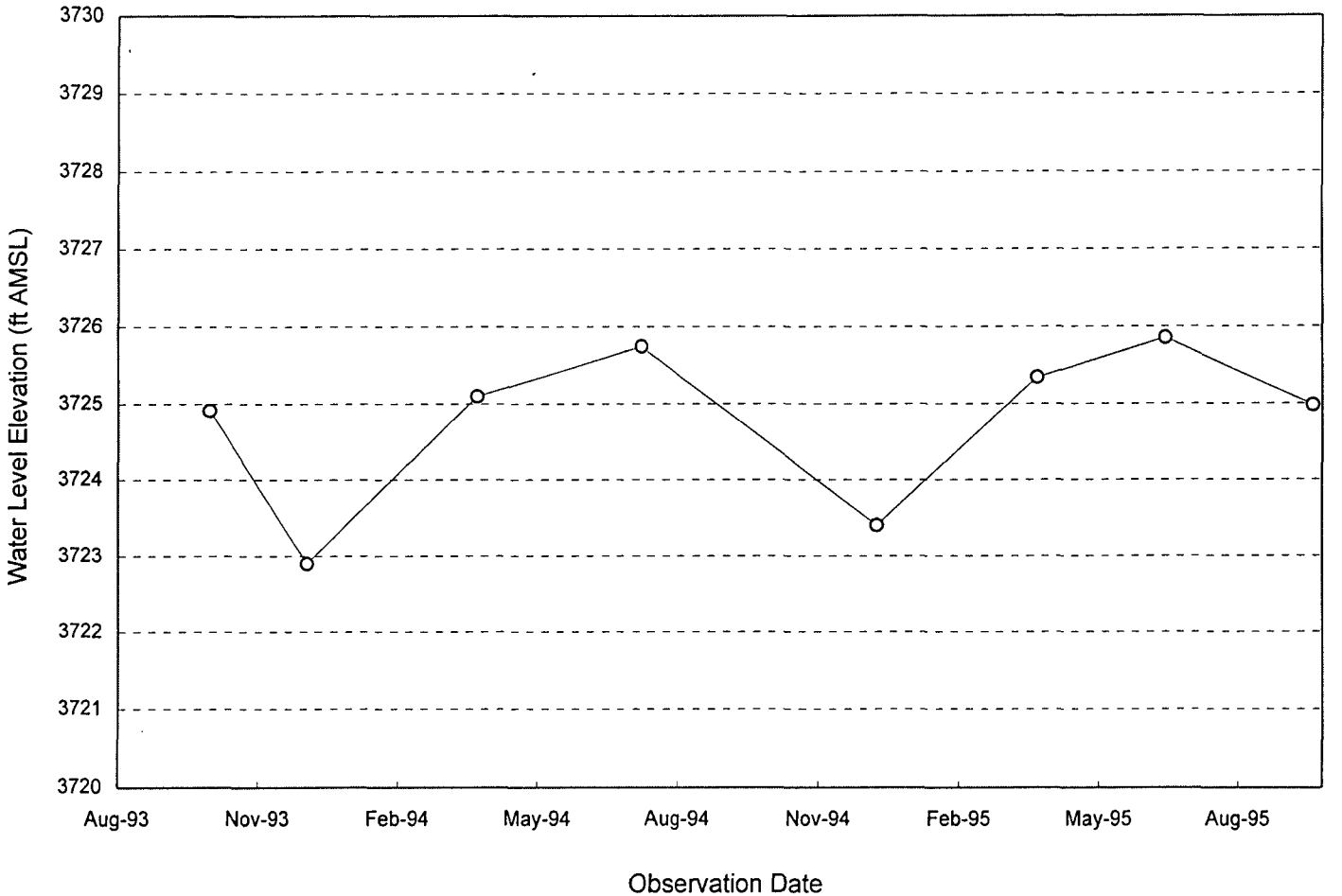
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-9S)



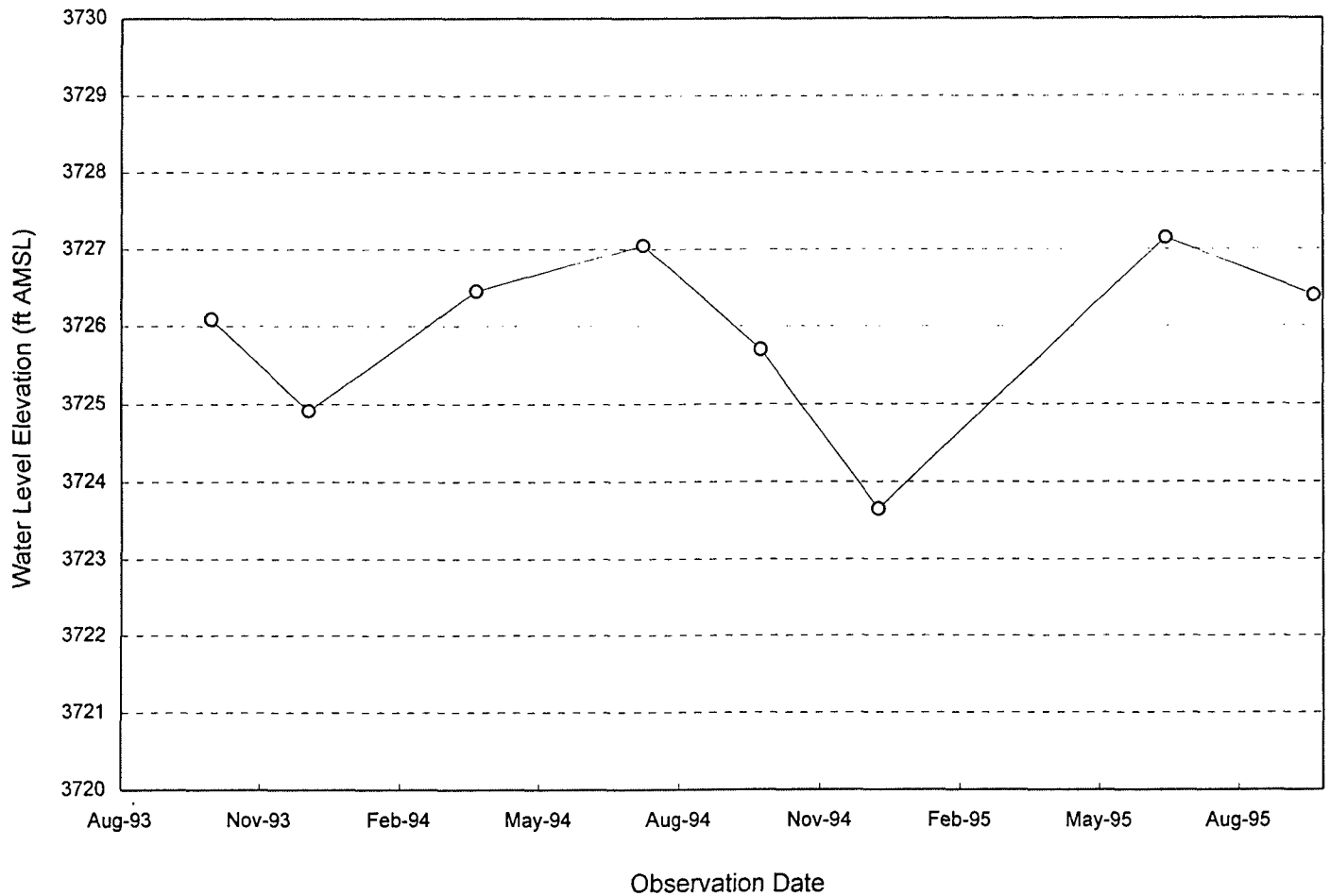
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-11)



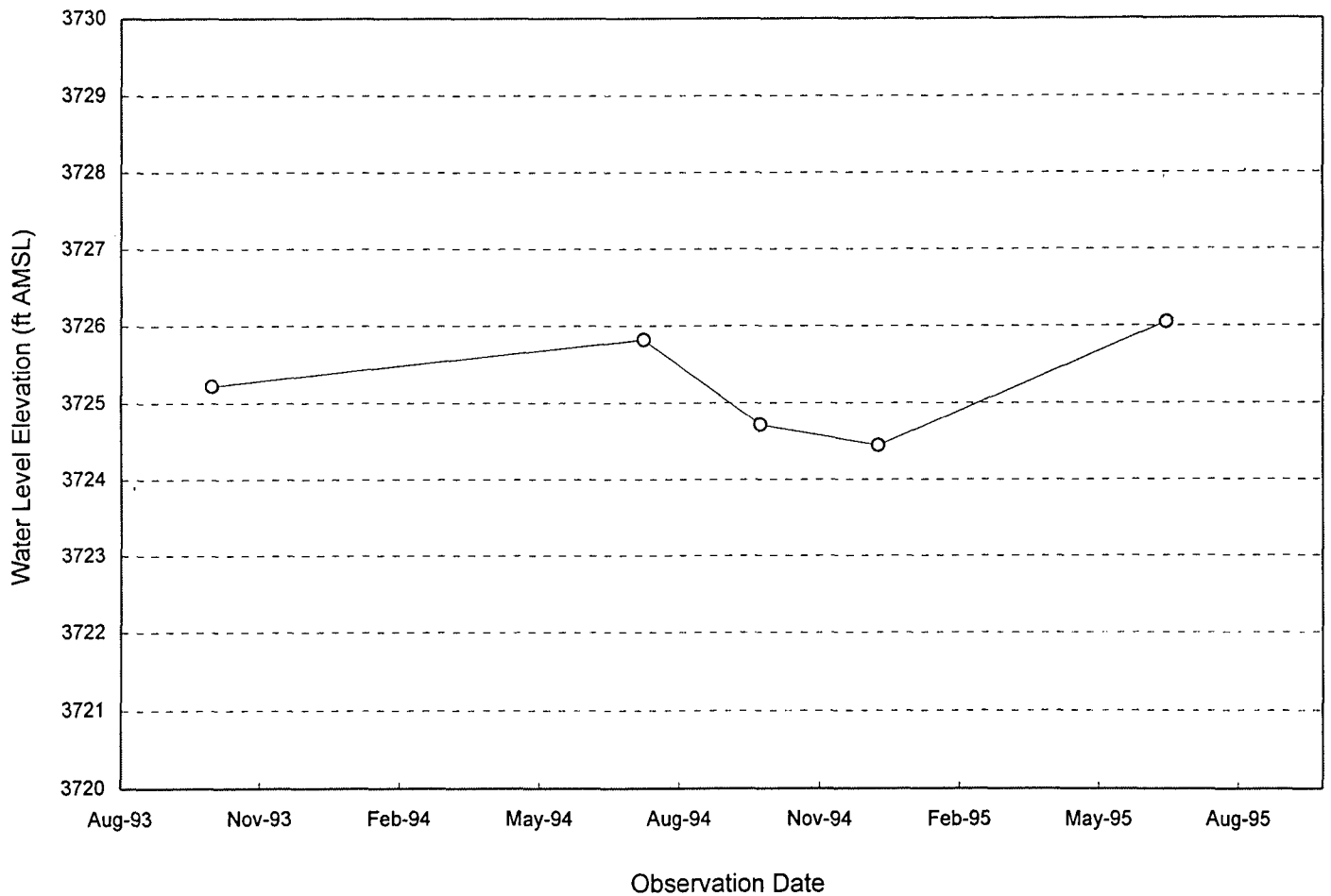
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-12)



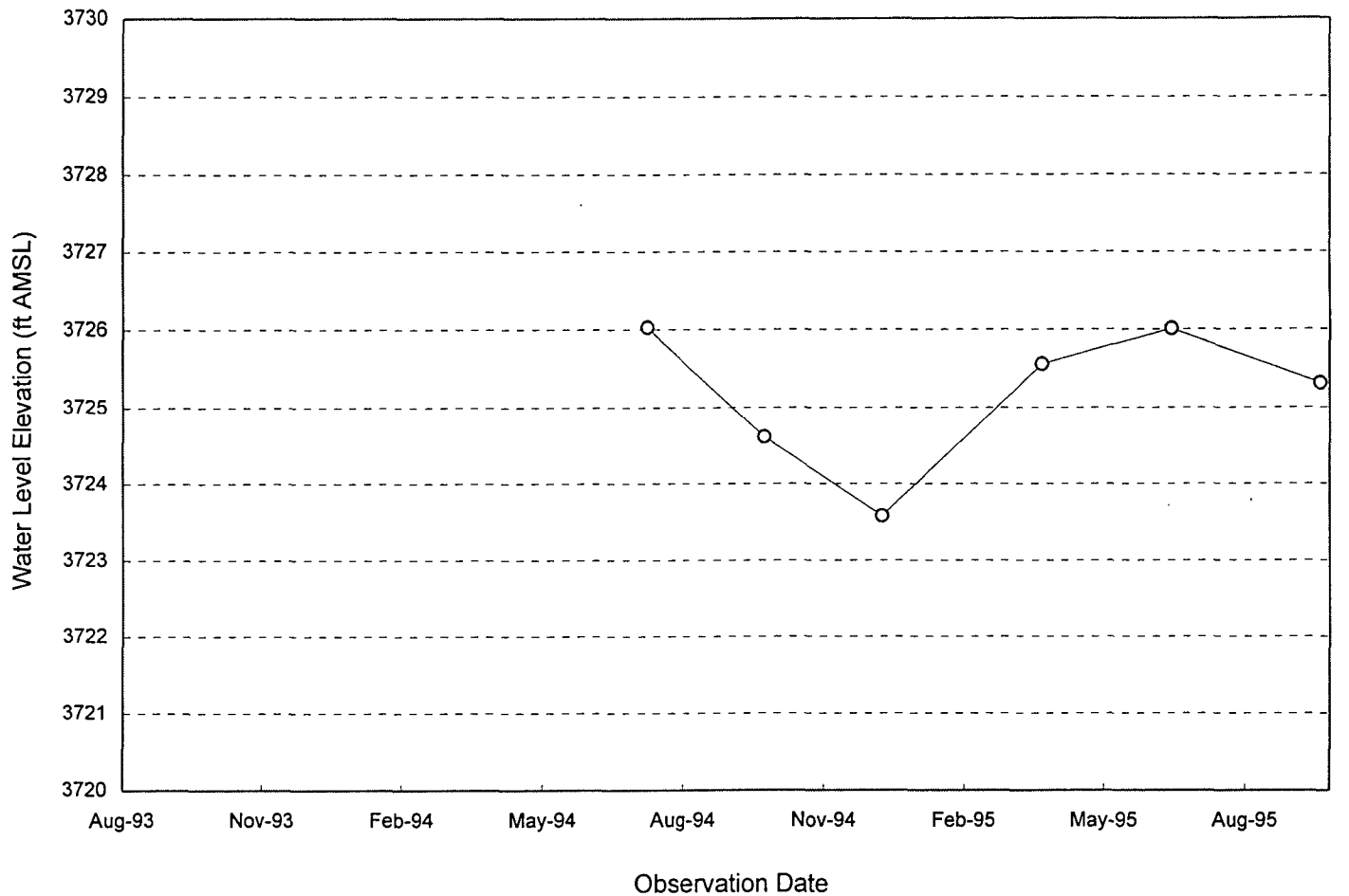
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-13)



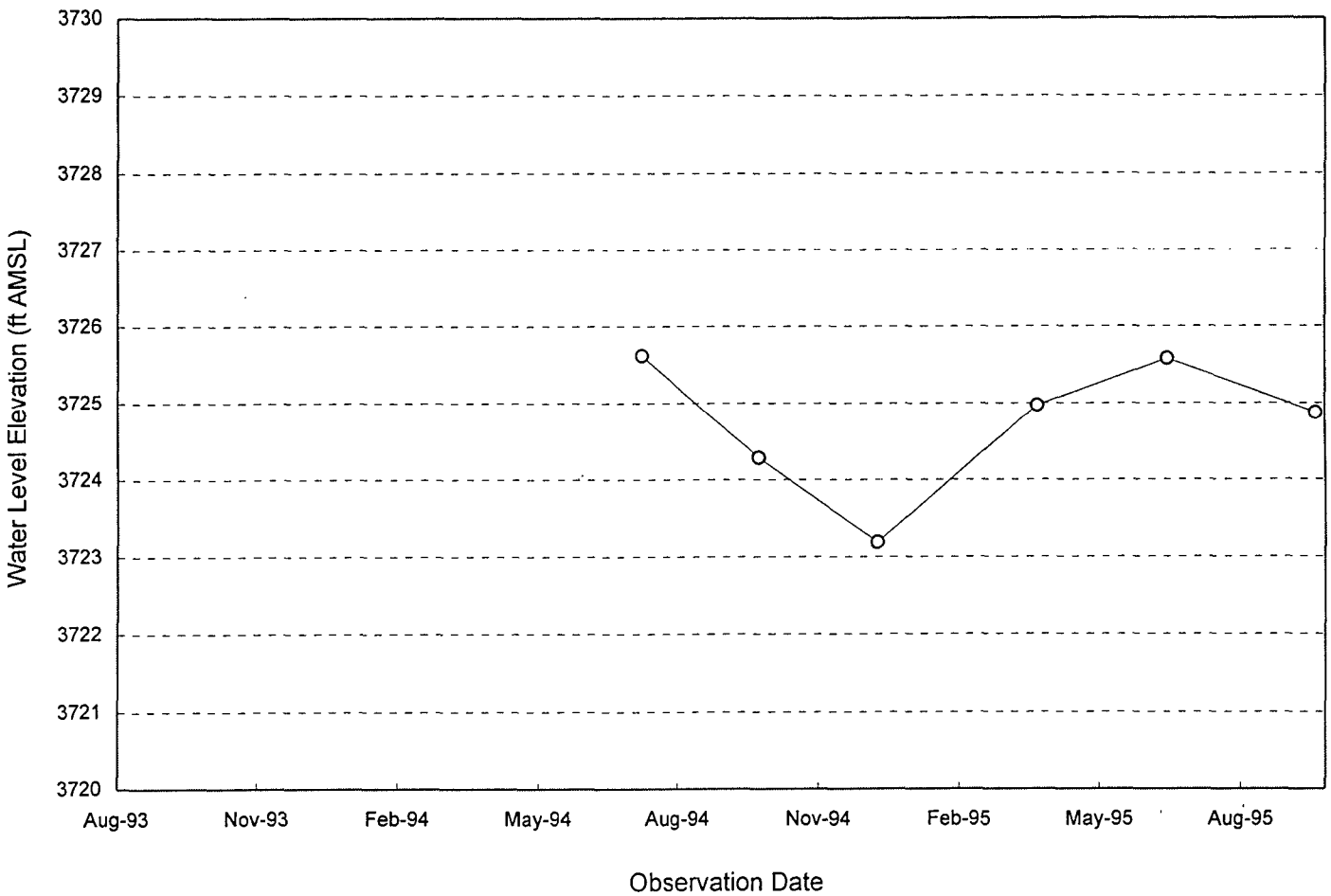
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-14)



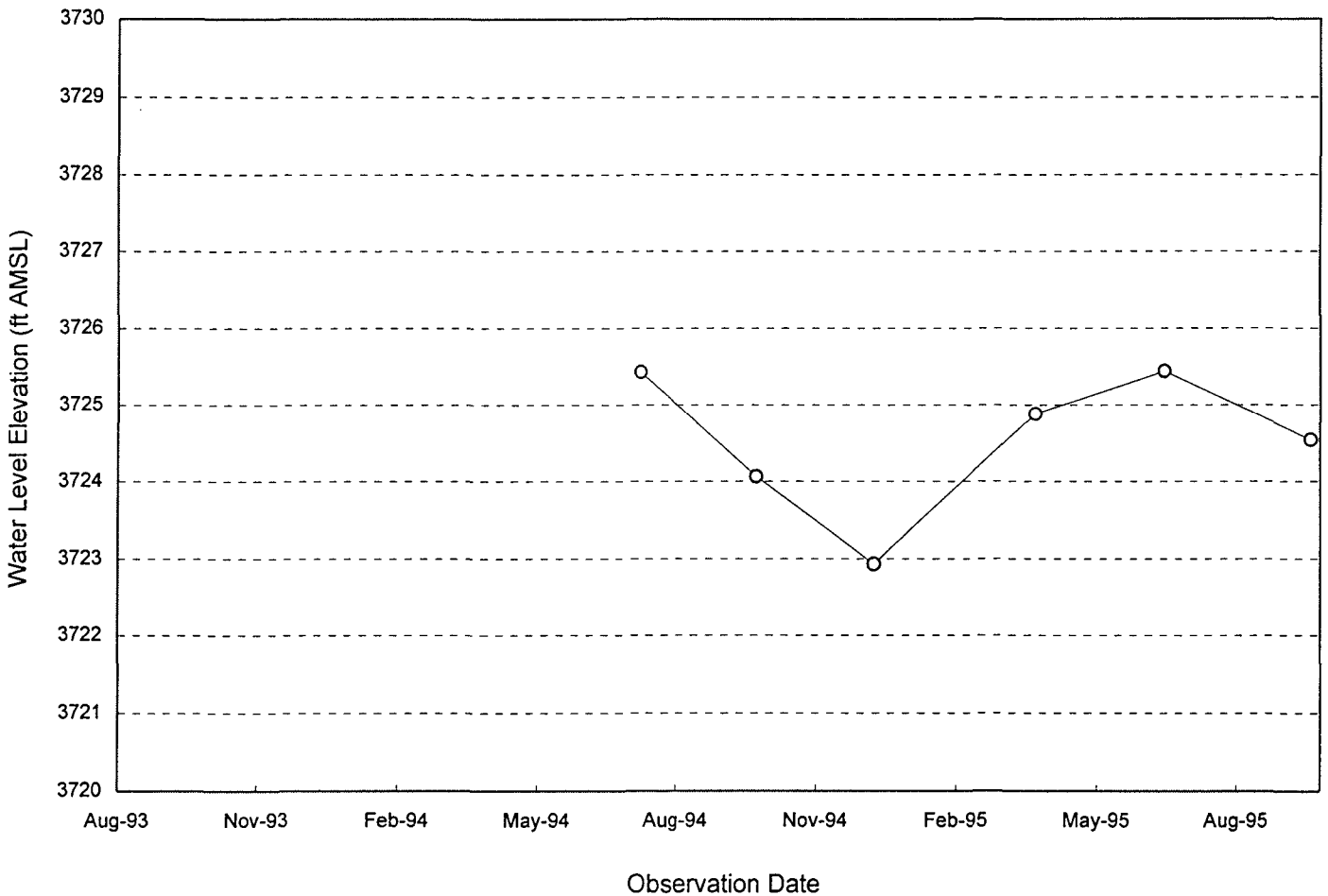
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-15)



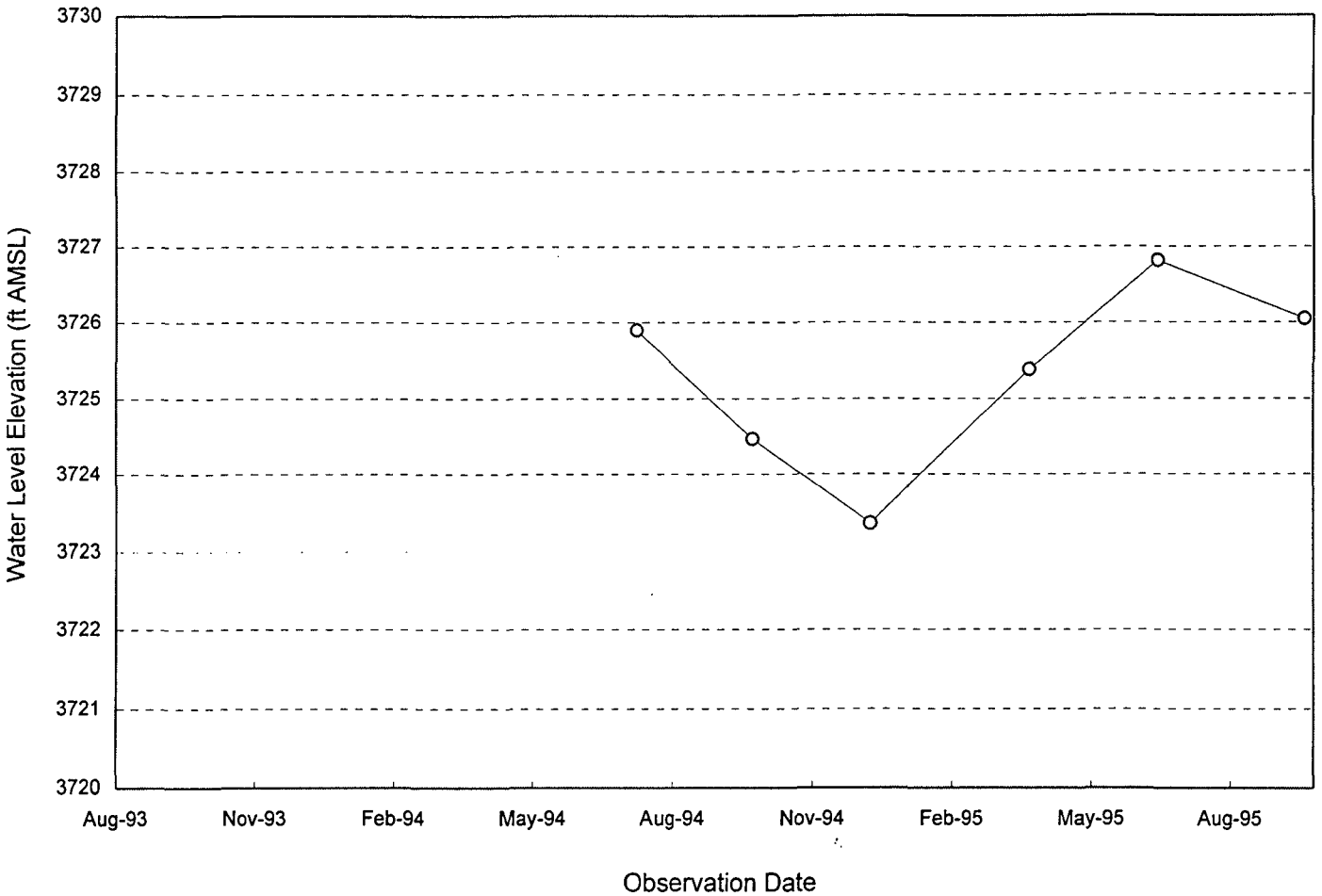
G:\REXWORK\FIGS.XLS

Water Level vs. Time (MW-16)

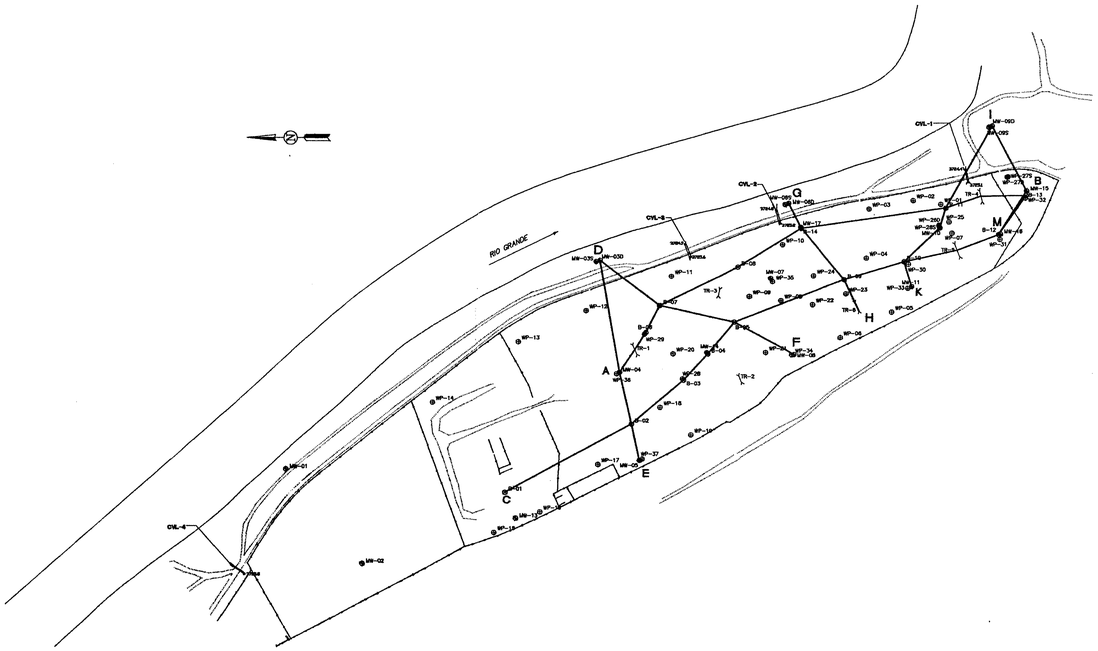


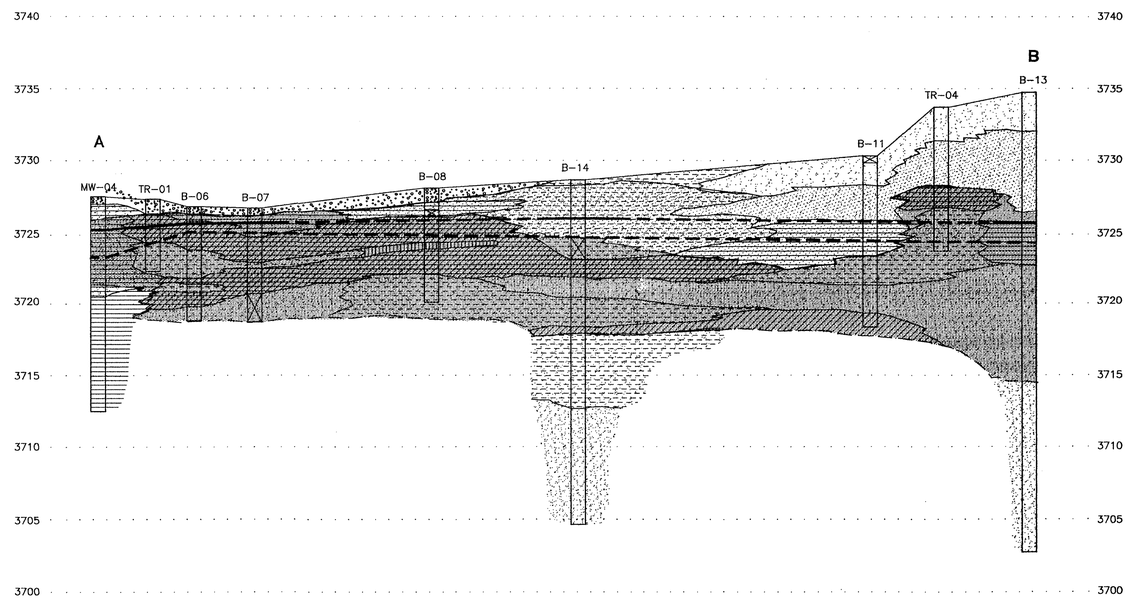
G:\REXWORK\FIGS.XLS

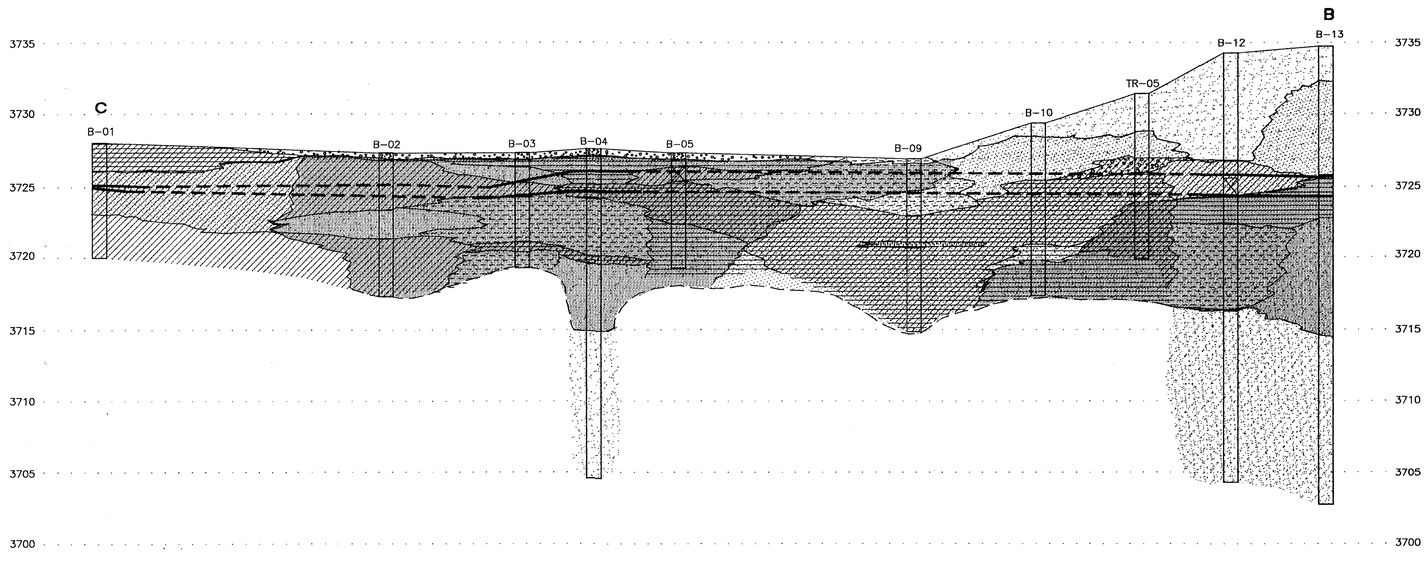
Water Level vs. Time (MW-17)



G:\REXWORK\FIGS.XLS







LEGEND

GRAVEL	GRAVELLY SILT
SANDY GRAVEL (GW)	SANDY SILT
SILTY GRAVEL (GW–GM)	CLAY (CL)
CLAYEY GRAVEL (GW–GC)	GRAVELLY CLAY (CL)
SAND	SANDY CLAY (CL)
GRAVELLY SAND (SW)	SILTY CLAY (CL)
SILTY SAND (SW–SM)	SILT (ML)
CLAYEY SAND (SW–SC)	NO RECOVERY, LOST SAMPLE

SMEAR ZONE (DASHED WHERE INFERRED)
HIGHEST OBSERVED WATER TABLE LEVEL

SMEAR ZONE (DASHED WHERE INFERRED)
LOWEST OBSERVED WATER TABLE LEVEL

ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE > 100 mg/Kg

ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE < 100 mg/Kg

80 40 0 200
100 60 20 100

VERTICAL SCALE : 1" = 5'
HORIZONTAL SCALE : 1" = 100'

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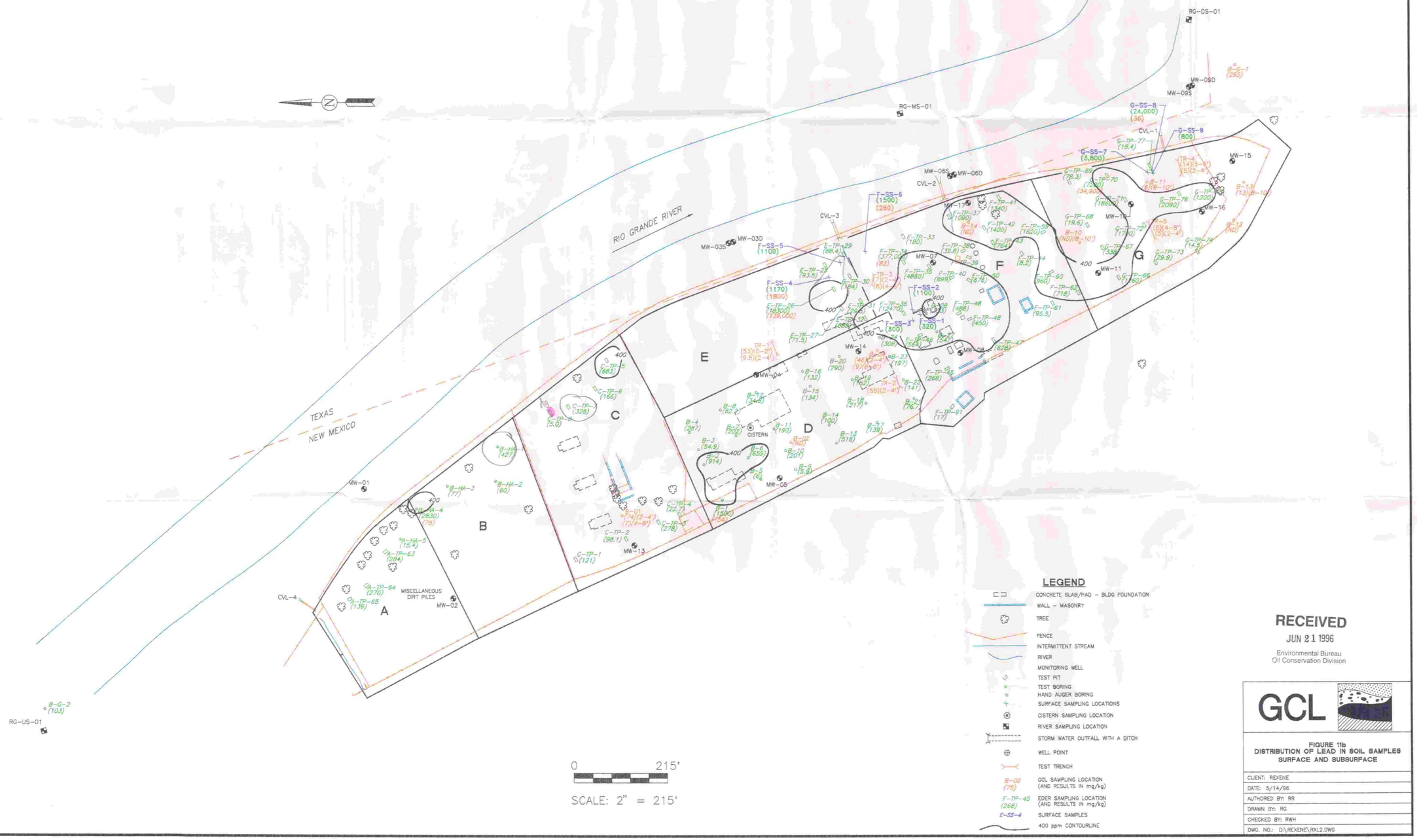
PLATE C
GEOLOGIC CROSS-SECTIONS SHOWING EXTENT OF HYDROCARBONS IN SOILS AT THE FORMER BRICKLAND REFINERY (LONGITUDINAL CROSS-SECTIONS)

CLIENT: REXENE	
DATE: 9/12/95	REV. NO.: 2
AUTHOR: BAS	DRAWN BY: MP
CK'D BY: BAL	FILE: LNGTD1-A.DWG



LEGEND

- CONCRETE SLAB/PAD – BLDG FOUNDATION
- WALL – MASONRY
- TREE
- FENCE
- INTERMITTENT STREAM
- RIVER
- MONITORING WELL
- TEST PIT
- TEST BORING
- HAND AUGER BORING
- SURFACE SAMPLING LOCATIONS
- CISTERN SAMPLING LOCATION
- RIVER SAMPLING LOCATION
- STORM WATER OUTFALL WITH A DITCH
- WELL POINT
- TEST TRENCH
- B-02 (75) — GCL SAMPLING LOCATION (AND RESULTS IN mg/kg)
- F-TP-45 (268) — EDER SAMPLING LOCATION (AND RESULTS IN mg/kg)
- C-SS-4 — SURFACE SAMPLES
- 400 ppm CONTOURLINE

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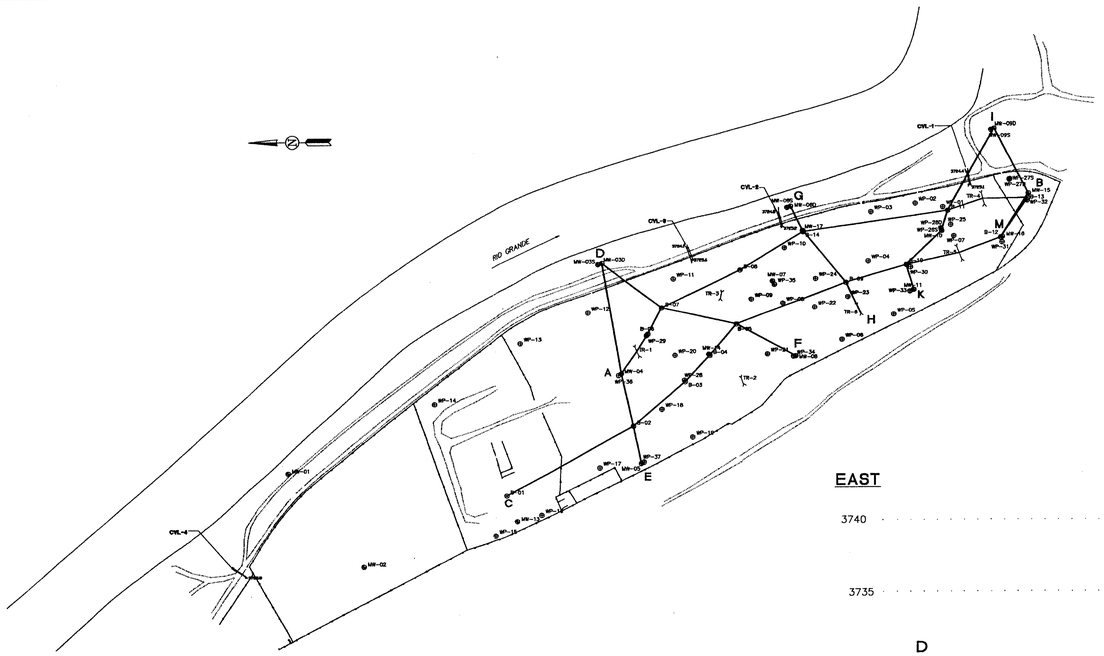
FIGURE 11b
DISTRIBUTION OF LEAD IN SOIL SAMPLES SURFACE AND SUBSURFACE

CLIENT:	REXENE
DATE:	5/14/96
AUTHORED BY:	RR
DRAWN BY:	RG
CHECKED BY:	RWH
DWG. NO.:	D:\REXENE\RXL2.DWG



MW-12

LEGEND

GRAVEL	GRAVELLY SILT
SANDY GRAVEL (GW)	SANDY SILT
SILTY GRAVEL (GW-GM)	CLAY (CL)
CLAYEY GRAVEL (GW-GC)	GRAVELLY CLAY (CL)
SAND	SANDY CLAY (CL)
GRAVELLY SAND (SW)	SILTY CLAY (CL)
SILTY SAND (SW-SM)	SILT (ML)
CLAYEY SAND (SW-SC)	NO RECOVERY, LOST SAMPLE

SMEAR ZONE (DASHED WHERE INFERRED)
HIGHEST OBSERVED WATER TABLE LEVEL

SMEAR ZONE (DASHED WHERE INFERRED)
LOWEST OBSERVED WATER TABLE LEVEL

ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE > 100 mg/Kg

ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE < 100 mg/Kg

80 40 0 200
100 60 20 100

VERTICAL SCALE : 1" = 5'
HORIZONTAL SCALE : 1" = 100'

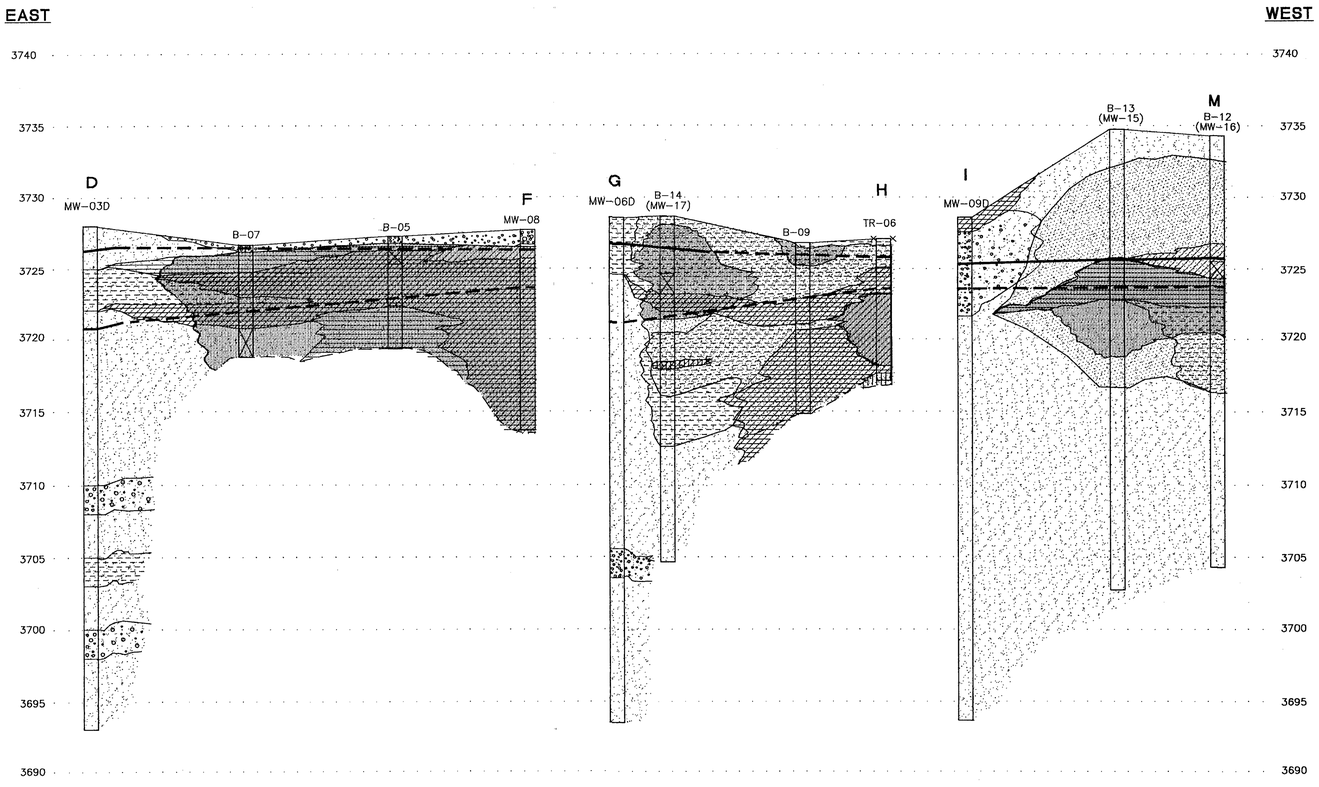


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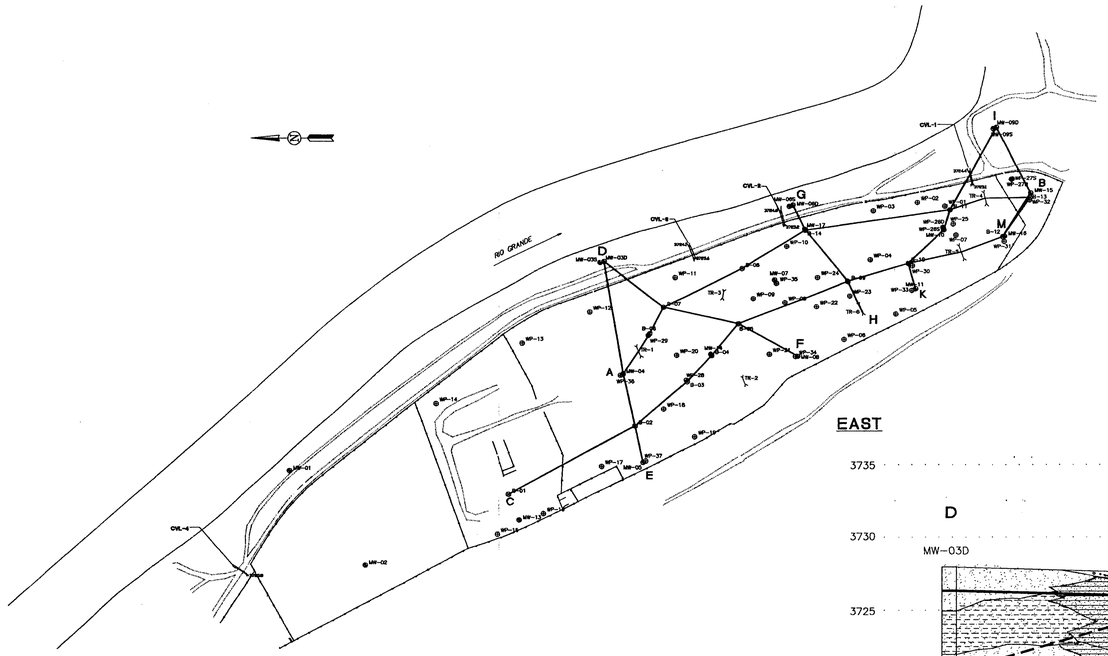
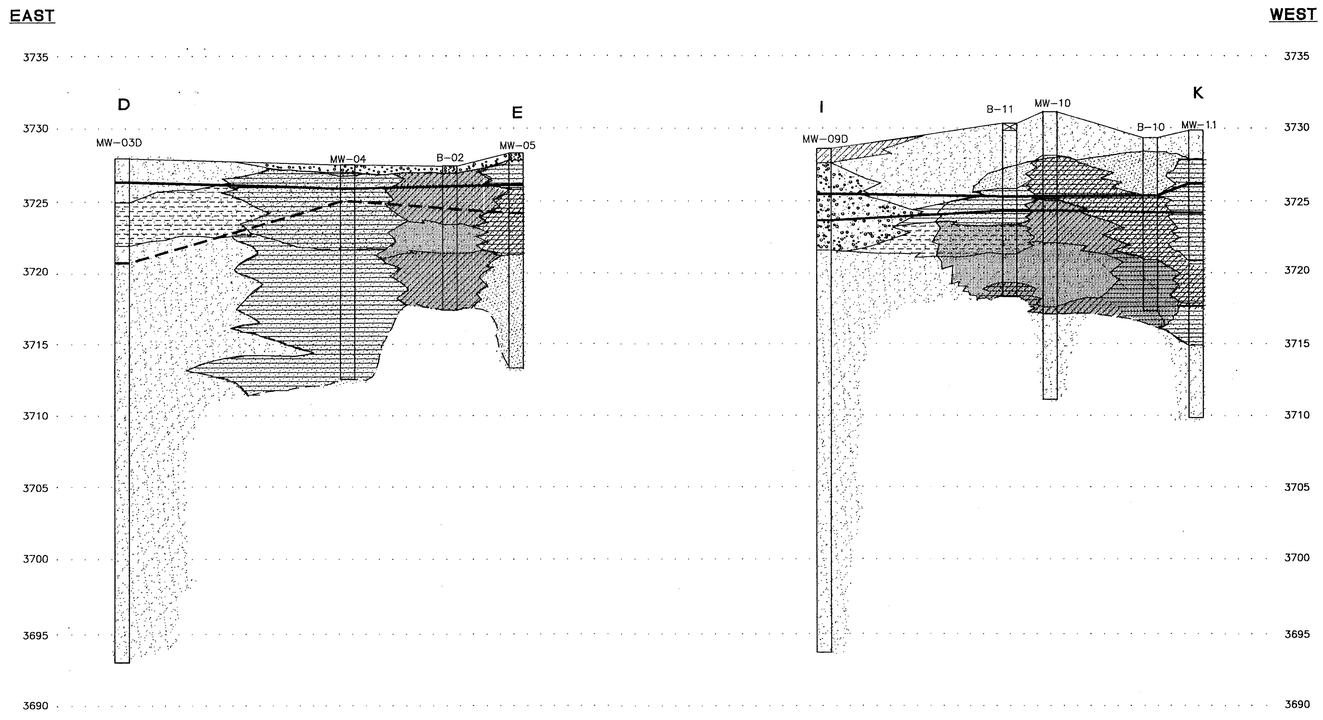
PLATE B
GEOLOGIC CROSS-SECTIONS SHOWING EXTENT OF HYDROCARBONS IN SOILS AT THE FORMER BRICKLAND REFINERY (TRANSVERSE CROSS-SECTIONS (2 of 2))

CLIENT: REXENE	
DATE: 9/12/95	REV. NO.: 1
AUTHOR: BAS	DRAWN BY: MP
CK'D BY: BAL	FILE: TRVRS2-A.DWG





LEGEND

- GRAVEL
- SANDY GRAVEL (GW)
- SILTY GRAVEL (GW–GM)
- CLAYEY GRAVEL (GW–GC)
- SAND
- GRAVELLY SAND (SW)
- SILTY SAND (SW–SM)
- CLAYEY SAND (SW–SC)
- GRAVELLY SILT
- SANDY SILT
- CLAY (CL)
- GRAVELLY CLAY (CL)
- SANDY CLAY (CL)
- SILTY CLAY (CL)
- SILT (ML)
- NO RECOVERY, LOST SAMPLE
- SMEAR ZONE (DASHED WHERE INFERRED) HIGHEST OBSERVED WATER TABLE LEVEL
- SMEAR ZONE (DASHED WHERE INFERRED) LOWEST OBSERVED WATER TABLE LEVEL
- ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE > 100 mg/Kg
- ZONE OF HYDROCARBON CONCENTRATION ESTIMATED TO BE < 100 mg/Kg

80 40 0 200
100 60 20 100

VERTICAL SCALE : 1" = 5'
HORIZONTAL SCALE : 1" = 100'

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PLATE A
GEOLOGIC CROSS-SECTIONS SHOWING EXTENT OF HYDROCARBONS IN SOILS AT THE FORMER BRICKLAND REFINERY (TRANSVERSE CROSS-SECTIONS (1 of 2))

CLIENT: REXENE	
DATE: 9/12/95	REV. NO.: 2
AUTHOR: BAS	DRAWN BY: MP
CK'D BY: BAL	FILE: TRVRS1–A.DWG