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2001 ANNUAL GROUNDWATER REMEDIATION REPORT JAL NO. 4 PLANT LEA COUNTY, NEW MEXICO

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2001 ANNUAL GROUNDWATER REMEDIATION REPORT JAL NO. 4 PLANT LEA COUNTY, NEW MEXICO

1.0 INTRODUCTION

Atkins Benham, Inc. Environmental Division (ABI) has been retained by El Paso Corporation (EPC) to compile the 2001 Annual Groundwater Remediation Report for the Jal No. 4 Plant (Plant) located in Lea County, New Mexico. The remedial activities conducted at the Plant have been performed under EPC's Project Work Plan, dated February 1995 (Plan). This Plan was approved by the New Mexico Oil Conservation Division (NMOCD) on April 27, 1995, with subsequent revisions approved on August 10, 1995 and July 8, 1997.

The Plant was constructed by an EPC entity (El Paso Natural Gas Company, or EPNG) in 1952 to treat, compress and transport natural gas to EPC's main transmission lines. EPNG sold the Plant in 1987. Currently, the Plant is owned and operated by Christie Gas Corporation (Christie). The Plant property is comprised of approximately 181 acres of land located west of State Highway 18, approximately 9 miles north of the town of Jal, New Mexico. The location of the Plant property and topographic features are shown on Figure 1. As is shown, the Plant property occupies portions of Sections 31 and 32 of Township 23 South, Range 37 East, and Sections 5 and 6 of Township 24 South, Range 37 East, all in Lea County, New Mexico.

1.1 Program Wells and Sampling Schedule

To assess brine and hydrocarbon impacts to the shallow groundwater system in the Plant area, EPC has installed 18 monitor wells, 1 piezometer, and 2 recovery wells on

Plant property and adjoining properties to the east (located hydraulically downgradient). In accordance with the NMOCD's approval of the revised Plan, obtained July 8, 1997, EPC designated thirteen (13) monitor wells as ***"program monitor wells"*** from which groundwater samples are frequently collected and submitted to an analytical laboratory for mineral composition, organic compounds, and metals analyses. Monitor well ACW-15 was added to this list in 1999, bringing the total number of monitor wells designated as ***"program monitor wells"*** to fourteen (14). The locations of these wells are shown on Figures 2 through 7.

A list of EPC's program monitor wells and the calendar year 2001 sample collection schedule for each well is as follows:

Monitor Well	Sampled February[1], May[1], August[1], October[3]	Sampled May[2], October[3]
ACW-1		X
ACW-2A		X
ACW-4		X
ACW-5		X
ACW-6		X
ACW-7		X
ACW-8		X
ACW-9		X
ACW-10		X
ACW-11		X
ACW-12	X	
ACW-13	X	
ACW-14	X	
ACW-15	X	

Notes:

1. Groundwater samples collected during these sample events were submitted to the laboratory for the following analyses: benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX), total dissolved solids (TDS), specific conductance, pH, temperature and the major cations and anions

(including bromide, calcium, chloride, fluoride, magnesium, nitrate, potassium, silica, sodium, sulfate, alkalinity and hardness).

2. Groundwater samples collected during these sample events were submitted to the laboratory for the following analyses: TDS, specific conductance and chloride.

3. Groundwater samples collected during this sample event were submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, pH, temperature and the major cations and anions (including aluminum, arsenic, barium, boron, bromide, cadmium, calcium, chloride, chromium, cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, nitrate, potassium, selenium, silica, silver, sodium, sulfate, zinc, alkalinity and hardness).

1.2 Non-Program Wells and Sampling Schedule

In addition to these program monitor wells, EPC also collects groundwater samples from three (3) non-program monitor wells (ENSR-1, ENSR-2 and ENSR-3), one (1) piezometer (PTP-1), one (1) upgradient water supply well (EPNG-1), and two (2) downgradient active water supply wells (Oxy Production Well and Doom Production Well). The ENSR monitor wells are located within the Plant process areas as shown on Figures 2 through 7. Water supply well EPNG-1 is located at the northwest corner of the Plant property. The Oxy Production Well is located approximately in the center of Section 5-T24S-R37E and provides potable water to Oxy's Myers Langlie Mattix Unit Water Injection Station. The locations of the Oxy injection station and supply well are shown on Figures 2 through 7. The Doom Production Well is a private water supply well that provides water to the residence of Jimmie J. and Rebecca J. Doom, and is located in the approximate center of the northwest quarter of Section 8-T24S-R37E. The location of the Doom Production Well is not shown on the Figures provided, however, the well is approximately 5,800 feet south of the Oxy water injection station. It should be noted that this location description for the Doom Production Well corrects the location description presented in previous annual reports.

To date, EPC has collected groundwater samples from these non-program wells at least annually. With the exception of the Oxy Production Well and the Doom

Production Well, the groundwater samples taken from these non-program wells were submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance and chloride. The Oxy Production and the Doom Production Wells were each sampled quarterly in 2001. The February, May and August samples were submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, pH, temperature and the major cations and anions (including bromide, calcium, chloride, fluoride, magnesium, nitrate, silica, sodium, sulfate, alkalinity and hardness). The groundwater samples collected during the October 2001 sample event were submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, pH, temperature and the major cations and anions (including aluminum, arsenic, barium, boron, bromide, cadmium, calcium, chloride, chromium, cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, nitrate, potassium, selenium, silica, silver, sodium, sulfate, zinc, alkalinity and hardness).

1.3 Depth to Groundwater Measurements

During each groundwater sampling event, and prior to disturbing the water columns within each well, EPC personnel measured the static depths to groundwater within the well casings using an electronic water level indicator. All depths to groundwater were measured relative to the surveyed top of casing (TOC) datums so that groundwater elevations could be determined. Table 1 provides a summary of the depths to groundwater, TOC elevations, and groundwater elevations that have been compiled throughout EPC's monitoring program.

1.4 Sampling Procedures

The groundwater samples were collected by EPC personnel in accordance with EPA methods and quality assurance/quality control guidance. All monitor wells were purged thoroughly prior to sample collection using electric submersible pumps. Groundwater produced during purging operations was contained and disposed of within the Plant's lined Surface Impoundment #9.

Upon collection, the groundwater samples were placed directly into laboratory-prepared containers, labeled as to source, packed on ice, and placed under chain-of-custody control for transfer to the laboratory. Samples collected during each of the 2001 sampling events were submitted to NEL Laboratories, Inc. (Las Vegas, Nevada). The results of the 2001 groundwater analyses and all previous analyses are summarized on Table 2. The complete 2001 laboratory analytical reports and chain-of-custody documents are provided in Appendix A.

It should be noted that the groundwater samples taken from monitor wells ACW-14 and ACW-15, throughout the 2001 sampling events, were labeled and submitted to the analytical laboratory as "ACW-15" and "ACW-17", respectively. Groundwater samples taken from recovery well RW-2, throughout the 2001 sampling events, were labeled and submitted to the analytical laboratory as "ACW-14". ABI has corrected these well nomenclature errors on the data summary tables and figures provided herein, however, the laboratory analytical reports and chain-of-custody documents were not changed. EPC has taken measures to prevent such errors from occurring in future sample events.

2.0 RESULTS OF MONITORING ACTIVITIES

The following sections summarize the field measurements and laboratory analytical results obtained throughout the 2001 groundwater sampling program. These data have been compared with historic data to assess any trends that may be apparent. To facilitate these comparisons, forty-two (42) trend graphs have been prepared that show the TDS, chloride, sodium, and benzene concentrations that have been detected within the groundwater samples taken from the fourteen (14) program monitor wells. These graphs are presented in the section of this report tabbed "Graphs".

An analysis of the five (5) years of analytical results developed for both the program and non-program monitor wells indicates that many of the constituents that are being analyzed for are either below detection limits, or are present at concentrations less than regulatory levels established in New Mexico Administrative Code (NMAC) 20.6.2.3103. Based upon the extensive analytical database developed to date for the Plant, and the fact that many of the constituents that are being analyzed for are non-detectable in groundwater or are consistently at low concentrations, it is ABI's opinion that a reduction in the sampling frequency and/or the laboratory analytical testing parameters could be justified.

2.1 Field Measurements

Depth to groundwater measurements taken during each of the sampling events are shown on Table 1. These data indicate that the depths to groundwater across the Plant are approximately 100 feet below ground surface, and that the static groundwater elevations exhibit little seasonal variability. With the exception of ACW-5 and ACW-9, the fluctuations in the groundwater elevations observed in the wells have been less than one (1) foot since monitoring began in 1997. In 2001, the depth to groundwater elevations for ACW-5 and ACW-9 appear to be influenced by groundwater withdrawals from ENSR–2 and RW-2 resulting in groundwater elevations fluctuations greater than one (1) foot.

Groundwater potentiometric surface maps have been prepared for each sampling quarter. These maps are presented on Figures 2 through 5. As is shown on these figures, the groundwater flow direction across the Plant, in general, is from northwest to southeast (S46E). The hydraulic gradient across the Plant is approximately 0.002 feet per foot. Both groundwater flow direction and hydraulic gradient appear to have changed little since 1997.

2.2 Inorganic Constituents

The primary inorganic parameters being utilized to assess plume migration at the Plant include: TDS, chloride and sodium. ABI has reviewed the concentration trend graphs for these parameters in each of the program monitor wells. As can be seen from the 2001 trend graphs, the Q4/2000 chloride, sodium and TDS concentrations reported for monitor wells ACW-13, ACW-14 and ACW-15 in the ***2000 Annual Groundwater Remediation Report*** were elevated from the previous trends for these analytes. However, these upward trends were not sustained, and the concentrations of these analytes observed during the 2001 monitoring year fell within the historical ranges for these wells.

It is ABI's opinion, based upon our review, that certain trends are apparent in the levels of these parameters. The following table summarizes ABI's opinions of the trends that are observable from the inorganic database provided herein. The trends observed in calendar year 2000 are shown in parentheses.

MONITOR WELL	CONCENTRATION TRENDS		
	TDS	CHLORIDE	SODIUM
ACW-1	↓ (↑)	↓ (↑)	↓ (↓)
ACW-2A	↓ (↓)	↓ (↓)	↓ (↔)
ACW-4	↓ (↓)	↓ (↓)	↓ (↓)
ACW-5	↓ (↓)	↑ (↑)	↔ (↓)
ACW-6	↓ (↓)	↓ (↑)	↓ (↓)
ACW-7	↑ (↑)	↑ (↑)	↑ (↓)
ACW-8	↓ (↔)	↓ (↓)	↔ (↓)
ACW-9	↑ (↑)	↑ (↑)	↑ (↔)
ACW-10	↑ (↑)	↑ (↑)	↔ (↑)
ACW-11	↑ (↑)	↑ (↑)	↑ (↑)
ACW-12	↑ (↑)	↑ (↑)	↔ (↑)
ACW-13	↔ (↑)	↔ (↑)	↔ (↑)
ACW-14	↔ (↑)	↔ (↑)	↔ (↑)
ACW-15	↓ (↑)	↓ (↑)	↓ (↑)

Key: ↔ denotes no observable trend, ↓ denotes a decreasing trend, ↑ denotes an increasing trend, trends shown in parentheses were reported in previous years monitoring program.

In general, these trends indicate that the overall levels of inorganic constituents are decreasing in six (6) wells, increasing in five (5) wells, and no observable trend in three (3) wells. The wells and their overall trends for inorganic constituents can be grouped as follows:

Monitor Wells with Decreasing Overall Inorganic Levels

ACW-1	ACW-2A	ACW-4
ACW-6	ACW-8	ACW-15

Monitor Wells with Increasing Overall Inorganic Levels

ACW-7	ACW-9	ACW-10
ACW-11	ACW-12	

Monitor Wells with No Observable Overall Inorganic Levels

ACW-5	ACW-13	ACW-14

On Figure 6, ABI has prepared an isopleth of the chloride concentrations detected in groundwater during the 2001 sampling program. NMAC 20.6.2.3103 (B) has established a standard for Other Standards for Domestic Water Supply of 250 mg/L for chloride in groundwater containing Total Dissolved Solids (TDS) levels of 10,000 mg/L or less. On this isopleth, the value posted at each well location represents the highest chloride concentration detected in any groundwater sample taken from that well during the 2001 monitoring program.

Decreasing chloride trends are evident in the monitor wells immediately adjacent to RW-1 and ENSR-2 (i.e., monitor wells ACW-2A, ACW-4 and ACW-8). These trends indicate the remediation system is effective in removing the highest levels of brine impact and that fresher groundwater is converging on these wells.

2.3 Organic Constituents

The primary organic constituent being utilized to assess plume migration at the Plant is benzene. NMAC regulation 20.6.2.3103 (A) has established a Human Health Standard of 0.01 mg/L for benzene in groundwater containing TDS levels of 10,000 mg/L or less. ABI has reviewed the concentration trend graphs for benzene in each of the program monitor wells. It is ABI's opinion, based upon our review, that certain trends are apparent in the levels of this compound. The following table summarizes ABI's opinions of the trends that are observable from the benzene database provided herein. The trends observed in calendar year 2000 are shown in parentheses.

MONITOR WELL	BENZENE CONCENTRATION TREND
ACW-1	↔ (↔)
ACW-2A	↓ (↓)
ACW-4	↓ (↓)
ACW-5	↔ (↓)
ACW-6	↑ (↔)
ACW-7	↔ (↓)
ACW-8	↓ (↓)
ACW-9	↔ (↔)
ACW-10	↔ (↓)
ACW-11	↑ (↑)
ACW-12	↔ (↓)
ACW-13	↔ (↔)
ACW-14	↔ (↔)
ACW-15	↔ (↔)

Key: ↔ denotes no observable trend, ↓ denotes a decreasing trend, ↑ denotes an increasing trend, trends shown in parentheses were reported in previous years monitoring program.

In general, these trends indicate that benzene levels are remaining relatively constant or are decreasing slightly across the Plant (9 stable and 3 decreasing trends). However, an increasing benzene trend is indicated in monitor wells ACW-6 and ACW-11. These monitor wells are located along the eastern Plant property boundary. ACW-11 is located on Plant and ACW-6 is located immediately off Plant.

On Figure 7, ABI has prepared an isopleth of the benzene concentrations detected in groundwater during the 2001 sampling program. On this isopleth, the value posted at each well location represents the highest benzene concentration detected in any groundwater sample taken from that well during the 2001 monitoring program. As can be seen on Figure 7, the highest benzene concentration observed in sample year 2001 was detected in the groundwater sample taken from on Plant monitor well ACW-11 (59 µg/L). In addition, benzene was detected in three (3) off Plant monitor wells during the

sample year 2001. These wells were ACW-6 (5.6 µg/L), ACW-7 (7.4 µg/L) and ACW-12 (2.4 µg/L).

3.0 GROUNDWATER REMEDIATION SYSTEM

To date, EPC has installed two (2) groundwater recovery wells to mitigate impacts to the shallow groundwater system. These wells are identified as RW-1 and RW-2, and the locations of these wells are shown on Figures 2 through 7. Due to chronic scaling problems that were occurring within the electrical submersible pump in RW-1, monitor well ENSR-2 was converted to a recovery well in 2001. As shown on these figures, ENSR-2 is located on Plant property in very close proximity to RW-1, and to areas that have likely been sources for brine and hydrocarbon impacts to groundwater. RW-2 is located hydraulically downgradient relative to recovery well ENSR-2 and is approximately 780 feet east of the Plant property boundary. EPC has also installed a below-grade pipeline that connects recovery wells RW-1 and RW-2 to a Class II water disposal well located immediately north of the Plant in the northwest quarter, of the southwest quarter, of Section 32-T23S-R37E. This well, referred to as the SWD-214, was approved for disposal by NMOCD on October 23, 1979 and has a perforated injection interval of 3,866 to 3,982 feet below ground level. During 2001, ENSR-2 was connected to this disposal system. SWD-214 is currently owned and operated by Christie, and in 1999 EPC entered into an agreement with Christie that provides EPC with access to the disposal well for the purpose of disposing of all groundwater recovered from the remediation system.

Groundwater recovery began from recovery well RW-1 in October 1999, RW-2 in January 2000, and ENSR-2 in August 2000. Table 3 provides a summary of the volumes of groundwater pumped from each of these wells.

Through ABI's review of the 2001 groundwater recovery/disposal volumes, an error was discovered in the volumes reported in the ***2000 Annual Groundwater Remediation Report***. The 2000 annual report stated that 1,490,680 gallons were removed from RW-1 and 3,967,385 gallons were removed from RW-2 for a total volume of 5,458,065 gallons (16.7 acre-feet). The actual volumes of groundwater removed during calendar year 2000 were 1,575,510 gallons from RW-1, 3,967,385 gallons from RW-2, and

780,240 gallons from ENSR-2, for a total of 6,323,135 gallons. This corrected total volume for the 2000 monitor period is equivalent to 19.4 acre-feet of water.

Due to Christie's operations at the Plant, EPC had limited access to the disposal well in calendar year 2001. Therefore, groundwater recovery operations at the Plant were limited to less than one-half of the year. Groundwater recoveries from recovery wells RW-2 and ENSR-2 in calendar year 2001 totaled 1,672,990 gallons and 566,126 gallons, respectively, and totaled 2,239,116 gallons. This total volume is equivalent to 6.9 acre-feet of water. Groundwater permits for recovery wells RW-1 and RW-2, obtained in June 1997 from the New Mexico State Engineer's Office, established production limits of 35 acre-feet of water per year from all combined sources at the Plant.

A summary of the amount of groundwater recovered from the wells is presented on the following table. This table presents total number of gallons recovered per well, per year. In addition, the total amount of water recovered per year is presented in gallons and in acre-feet.

Groundwater Recovery Volumes

Year	RW-1 (gallons)	RW-2 (gallons)	ENSR-2 (gallons)	Total (gallons)	Total (acre-feet)
1999	319,280	0	0	319,280	1.0
2000	1,575,510	3,967,385	780,240	6,323,135	19.4
2001	0	1,672,990	566,126	2,239,116	6.9
Cumulative Total	**1,894,790**	**5,640,375**	**1,346,366**	**8,881,531**	**27.3**

4.0 GROUNDWATER MODEL

During calendar year 2001, as proposed in the ***2000 Annual Groundwater Remediation Report***, ABI prepared a computer model of the upper-most groundwater system present under the Plant to provide a capture zone analysis for the groundwater remediation system. This model required the input of several hydraulic and geologic parameters including the hydraulic conductivity of the groundwater saturated interval, transmissivity, and storativity. In preparation of this model, ABI attempted to calculate these parameters from the results of a pump test conducted at the Plant by K.W. Brown on behalf of EPC, in December 1990. However, after a thorough review of these pump test data, ABI concluded that the data was unreliable because: 1) the drawdown measurements within the pumped well (ENSR-3) ended two (2) minutes into the pump test, 2) the duration of the discharge was approximately six (6) hours, substantially less than the 24-hour period recommended for unconfined aquifers, and 3) the groundwater model would not calibrate using the limited results obtained from this pump test.

ABI recommends that a second pump test be conducted at the Plant during first quarter of calendar year 2002. Upon complete analysis of the data obtained from this pump test, the computer groundwater model will be completed and the capture zone of the groundwater remediation system evaluated. A complete copy of the groundwater modeling report will be included in the 2002 Annual Groundwater Remediation Report.

5.0 CONCLUSIONS

Based upon ABI's review of the data presented herein, the following conclusions are presented:

- The uppermost occurrence of groundwater in the Plant area occurs within a shallow groundwater system with saturation occurring at approximately 100 feet below ground surface.

- The groundwater elevations of the shallow groundwater system locally are quite stable. With the exception of two (2) wells, the observed groundwater elevations in all monitor wells have fluctuated less than 1-foot over the last five (5) years.

- Groundwater flow directions at the Plant within the shallow groundwater system appear quite stable with flows occurring from northwest to southeast (S46E) with a hydraulic gradient of approximately 0.002 feet per foot.

- The shallow groundwater system in the Plant area has been impacted by chloride. The groundwater analytical data indicate that a plume containing elevated levels of chloride has migrated hydraulically downgradient from the Plant area.

- In general, chloride concentrations in groundwater appear to be increasing along the eastern property boundary of the Plant, and along a line between RW-1 and monitor well ACW-15.

- The shallow groundwater system in the Plant area has been impacted by benzene. The groundwater analytical data indicate that detectable levels of benzene are present hydraulically downgradient of the Plant area.

- In general, benzene concentrations in groundwater appear to be remaining constant or may be decreasing slightly along the eastern property boundary of the Plant. Only the benzene levels in monitor wells ACW-6 and ACW-11 appear to have an increasing trend.

- The data derived from the pump test conducted in the monitor well ENSR-3 and Piezometer PTP-1 in 1990 appears to be unreliable. A pump test should be preformed to determine the hydraulic properties of the subject groundwater system.

6.0 RECOMMENDATIONS

Based upon a thorough review of the data contained within this report, ABI has formulated the following recommendations:

- Continue operation of the Jal No. 4 Plant groundwater remediation system at maximum design capacity throughout calendar year 2002. Throughout the year, each recovery well should be routinely monitored to identify groundwater recovery volumes, pumping rates, pumping times, and the quality of groundwater being discharged (via field measurements of specific conductance and chloride concentration). In addition, concurrent depth to groundwater measurements should also be taken monthly within both recovery and monitoring wells to assess the cones of depression created by the groundwater removal.

- Efforts should be made to improve access to and capacity in Christie's SWD-214 disposal well to maximize groundwater recovery volumes. Ideally, EPC's disposal capacity and recovery well configuration should be sufficient to allow hydraulic capture of the chloride and benzene impacts to groundwater. If adequate disposal capacity cannot be developed and maintained, EPC should pursue another disposal well(s) that can provide the disposal capacity required.

- Remediation efforts should focus on capturing the most highly impacted groundwater (i.e., groundwater with chloride levels greater than 5,000 mg/L). Particular emphasis should be placed upon evaluating vertical variations in brine concentrations that may be present within the groundwater system. Construction of future recovery wells should target those groundwater intervals containing the most highly affected groundwater.

- Develop a more complete understanding of the scaling problems that are occurring within the remediation system and take the necessary measures to eliminate down-time that results from equipment failures.

- Conduct a pump test within existing monitor wells (ENSR-3 and PTP-1 recommended) to provide the needed hydraulic information for the impacted groundwater system. These data will be used to develop a groundwater model capable of predicting the capture zone of the remediation system. Specifically, the model will be used to determine if additional recovery wells area needed, and if so, to locate these recovery wells.

- Drill and install an additional recovery well(s), to enhance the effectiveness of the groundwater remediation system, and prevent further downgradient movement of impacted groundwater.

- Based upon the database created by the last five (5) years of groundwater monitoring, ABI recommends that the sampling program be modified. The recommended modifications to the sampling program include:

  - 1st Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 for the following: BTEX, TDS, specific conductance, chloride and sodium.

  - 2nd Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 for the following: BTEX, calcium, hardness, alkalinity, TDS, specific conductance, chloride, pH, temperature and sodium.

  - 3rd Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 for the following: BTEX, TDS, specific conductance, chloride and sodium.

  - 4th Quarter - sample all program and non program wells for the following: BTEX, calcium, hardness, alkalinity, TDS, specific conductance, chloride, pH, temperature, sodium, magnesium, sulfate, bromide, fluoride, nitrate-N, nitrate as NO_3, arsenic, boron, iron, manganese, potassium and silica.

TABLES

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-01	110 to 130	3,300.87	02/19/97	106.65	3,194.22
			05/07/97	105.59	3,195.28
			08/19/97	105.61	3,195.26
			10/21/97	105.71	3,195.16
			02/24/98	105.62	3,195.25
			05/12/98	105.59	3,195.28
			08/11/98	105.61	3,195.26
			10/20/98	105.67	3,195.20
			02/23/99	105.72	3,195.15
			05/11/99	105.66	3,195.21
			08/11/99	105.68	3,195.19
			10/18/99	105.73	3,195.14
			02/22/00	105.81	3,195.06
			05/09/00	105.90	3,194.97
			08/07/00	105.99	3,194.88
			10/26/00	106.10	3,194.77
			02/20/01	106.19	3,194.68
			05/01/01	105.90	3,194.97
			08/01/01	105.89	3,194.98
			10/22/01	106.05	3,194.82
ACW-2a	98 to 118	3,300.88	05/12/99	106.00	3,194.88
			10/18/99	106.09	3,194.79
			05/08/00	107.27	3,193.61
			10/26/00	107.51	3,193.37
			05/02/01	106.31	3,194.57
			10/22/01	106.85	3,194.03
ACW-03	112 to 132	3,300.34	05/08/00	105.98	3,194.36
			10/26/00	106.21	3,194.13
			05/01/01	105.94	3,194.40
			10/23/01	106.15	3,194.19
ACW-04	154 to 169	3,299.48	05/08/00	113.57	3,185.91
			10/26/00	113.25	3,186.23
			05/02/01	106.00	3,193.48
			10/22/01	107.99	3,191.49
ACW-05	105 to 115	3,294.75	02/19/97	103.08	3,191.67
			05/07/97	103.06	3,191.69
			08/19/97	103.07	3,191.68
			10/22/97	103.06	3,191.69
			02/24/98	103.10	3,191.65
			05/13/98	103.10	3,191.65
			08/11/98	103.15	3,191.60
			10/21/98	103.22	3,191.53
			02/23/99	103.26	3,191.49
			05/13/99	103.17	3,191.58
			08/11/99	103.17	3,191.58
			10/21/99	103.25	3,191.50
			02/22/00	103.30	3,191.45
			05/10/00	103.32	3,191.43
			08/07/00	103.40	3,191.35
			10/26/00	103.50	3,191.25
			02/20/01	103.62	3,191.13
			05/06/01	103.57	3,191.18
			08/01/01	103.46	3,191.29
			10/24/01	103.70	3,191.05
ACW-06	110 to 120	3,300.53	02/19/97	107.53	3,193.00
			05/08/97	107.50	3,193.03
			08/18/97	107.51	3,193.02
			10/22/97	107.57	3,192.96
			02/24/98	107.54	3,192.99
			05/13/98	107.55	3,192.98
			08/11/98	107.57	3,192.96
			10/21/98	107.70	3,192.83
			02/23/99	107.68	3,192.85

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-06 cont	110-120	3,300.53	05/13/99	107.62	3,192.91
			08/11/99	107.60	3,192.93
			10/21/99	107.68	3,192.85
			02/22/00	107.72	3,192.81
			05/10/00	107.75	3,192.78
			08/07/00	107.84	3,192.69
			10/26/00	107.90	3,192.63
			02/20/01	108.00	3,192.53
			05/06/01	107.95	3,192.58
			08/01/01	107.87	3,192.66
			10/24/01	108.09	3,192.44
ACW-07	105 to 115	3,295.36	05/12/99	102.62	3,192.74
			10/21/99	102.75	3,192.61
			05/10/00	102.92	3,192.44
			10/26/00	103.20	3,192.16
			05/06/01	103.08	3,192.28
			10/24/01	103.35	3,192.01
ACW-08	140 to 173	3,297.27	05/11/99	104.17	3,193.10
			10/18/99	104.29	3,192.98
			05/09/00	104.40	3,192.87
			10/26/00	104.64	3,192.63
			05/01/01	104.48	3,192.79
			10/24/01	104.60	3,192.67
ACW-09	140 to 160	3,302.47	02/19/97	110.24	3,192.23
			05/08/97	110.25	3,192.22
			08/19/97	110.26	3,192.21
			10/23/97	110.28	3,192.19
			02/24/98	110.29	3,192.18
			05/13/98	110.30	3,192.17
			08/11/98	110.32	3,192.15
			10/21/98	110.40	3,192.07
			02/23/99	110.54	3,191.93
			05/13/99	110.45	3,192.02
			08/11/99	110.45	3,192.02
			10/22/99	110.50	3,191.97
			02/22/00	111.18	3,191.29
			05/12/00	111.89	3,190.58
			08/07/00	111.22	3,191.25
			10/26/00	112.20	3,190.27
			02/20/01	112.41	3,190.06
			05/04/01	110.85	3,191.62
			08/01/01	110.70	3,191.77
			10/25/01	112.17	3,190.30
ACW-10	140 to 160	3,297.57	02/19/97	106.31	3,191.26
			05/08/97	106.32	3,191.25
			08/19/97	106.33	3,191.24
			10/23/97	106.35	3,191.22
			02/24/98	106.38	3,191.19
			05/14/98	106.38	3,191.19
			08/11/98	106.41	3,191.16
			10/22/98	106.54	3,191.03
			02/23/99	106.52	3,191.05
			05/14/99	106.45	3,191.12
			08/11/99	106.47	3,191.10
			10/22/99	106.52	3,191.05
			02/22/00	106.39	3,191.18
			05/12/00	106.63	3,190.94
			08/07/00	106.77	3,190.80
			10/26/00	106.89	3,190.68
			02/20/01	106.99	3,190.58
			05/06/01	106.82	3,190.75
			08/01/01	106.76	3,190.81
			10/25/01	107.01	3,190.56

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-11	140 to 160	3,299.33	02/19/97	106.01	3,193.32
			05/06/97	105.95	3,193.38
			08/19/97	106.00	3,193.33
			10/21/97	106.02	3,193.31
			02/24/98	106.02	3,193.31
			05/12/98	106.00	3,193.33
			08/11/98	106.07	3,193.26
			10/20/98	106.17	3,193.16
			02/23/99	106.20	3,193.13
			05/12/99	106.07	3,193.26
			08/11/99	106.15	3,193.18
			10/20/99	106.16	3,193.17
			02/22/00	106.27	3,193.06
			05/09/00	106.31	3,193.02
			08/07/00	106.54	3,192.79
			10/26/00	106.65	3,192.68
			02/20/01	106.70	3,192.63
			05/01/01	106.45	3,192.88
			08/01/01	106.40	3,192.93
			10/23/01	106.57	3,192.76
ACW-12	150 to 170	3,299.56	02/19/97	109.32	3,190.24
			05/08/97	109.32	3,190.24
			08/20/97	99.29	3,200.27
			10/23/97	109.39	3,190.17
			02/24/98	109.38	3,190.18
			05/14/98	109.35	3,190.21
			08/11/98	109.40	3,190.16
			10/22/98	109.51	3,190.05
			02/23/99	109.54	3,190.02
			05/14/99	109.44	3,190.12
			08/11/99	109.54	3,190.02
			10/22/99	109.52	3,190.04
			02/22/00	109.50	3,190.06
			05/11/00	109.57	3,189.99
			08/07/00	109.65	3,189.91
			10/26/00	109.78	3,189.78
			02/20/01	109.90	3,189.66
			05/03/01	109.75	3,189.81
			08/01/01	109.76	3,189.80
			10/25/01	109.99	3,189.57
ACW-13	153 to 173	3,289.46	02/20/97	99.28	3,190.18
			05/08/97	99.29	3,190.17
			08/20/97	99.29	3,190.17
			10/23/97	99.27	3,190.19
			02/24/98	99.31	3,190.15
			05/14/98	99.31	3,190.15
			08/11/98	99.36	3,190.10
			10/22/98	99.40	3,190.06
			02/23/99	99.45	3,190.01
			05/14/99	99.38	3,190.08
			08/11/99	99.44	3,190.02
			10/22/99	99.44	3,190.02
			02/23/00	99.48	3,189.98
			05/11/00	99.47	3,189.99
			08/07/00	99.53	3,189.93
			10/26/00	99.50	3,189.96
			02/20/01	99.65	3,189.81
			05/06/01	99.62	3,189.84
			08/01/01	99.61	3,189.85
			10/25/01	99.61	3,189.85
ACW-14	157 to 177	3,291.18	02/19/97	NM	NM
			05/06/97	NM	NM
			08/20/97	100.41	3,190.77

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-14 cont	157-177	3,291.18	10/22/97	100.38	3,190.80
			02/24/98	100.47	3,190.71
			05/13/98	100.42	3,190.76
			08/11/98	100.47	3,190.71
			10/21/98	100.54	3,190.64
			02/23/99	100.57	3,190.61
			05/13/99	100.49	3,190.69
			08/09/99	100.49	3,190.69
			10/21/99	100.55	3,190.63
			02/22/00	100.56	3,190.62
			05/10/00	100.52	3,190.66
			08/07/00	100.61	3,190.57
			10/26/00	100.62	3,190.56
			02/20/01	100.75	3,190.43
			05/03/01	100.72	3,190.46
			08/01/01	100.75	3,190.43
			10/24/01	100.75	3,190.43
ACW-15	150 to 170	3,290.54	10/23/99	102.39	3,188.15
			02/23/00	102.41	3,188.13
			05/11/00	102.42	3,188.12
			08/07/00	102.45	3,188.09
			10/26/00	102.42	3,188.12
			02/20/01	102.55	3,187.99
			05/06/01	102.51	3,188.03
			08/01/01	102.58	3,187.96
			10/25/01	102.56	3,187.98

NOTES:

1. TOC : Top of Casing
2. AMSL : Above Mean Sea Level
3. NM : No Measurement Taken
4. BGL: Below Ground Level

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #01	ACW #01	05-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Jun-95	4.6	4.6	<2.5	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	29-Aug-95	6	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-Feb-96	6.1	3	1.9	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-Feb-96	5.6	2.7	3	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	08-May-96	6.3	2.03	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	13-Aug-96	3.5	1.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	05-Nov-96	5.6	2.5	<1.0	1.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-May-97	14	15	<5.0	5.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	6.1	4.8	<0.5	2.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01D	ACW #01D	21-Nov-97	6.7	5.7	<0.5	2.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0170	ACW #01	12-May-98	6.8	11	4.4	3.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	7	4	<2 Jm	<2 Jm	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0005	ACW #01	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	7.5	3.6	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0081	ACW #01	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	<2	<2	<2	8.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0133	ACW #01	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0469	ACW #01	22-Oct-01	<2	<2	<2	11.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	06-May-97	140	100	<50	<100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	89	100	13	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0167	ACW #02A	11-May-98	120	210	20	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	180	340	38	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0013	ACW #02A	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	17 P	42 P	8.1 P	14 P	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0078	ACW #02A	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	35	78	16	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0136	ACW #02A	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0468	ACW #02A	22-Oct-01	39	34	30	57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	06-May-97	350	22	110	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	160	8.2	69	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0157	ACW #03	11-May-98	130	21	41	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
ACW #01	ACW #01	05-Mar-93	14,350	---	8,505	4,045	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	10,360	---	6,016	2,915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	11,780	---	7,340	3,683	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	16,520	---	8,430	5,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	14,630	---	8,440	3,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	14,000	8.3	8,200	4,100	240	---	1.8	25	<2.0	---	---	---	---	0.9	---	66	---	---	<0.025
ACW #01	ACW #01	27-Jun-95	1,400	8.4	8,400	6,700	260	---	1.9	22	<2.0	---	---	---	---	1.0	---	74	---	---	<0.025
ACW #01	ACW #01	29-Aug-95	21,000	8.2	12,000	3,300	210	---	2.2	18	<20	---	---	---	---	0.8	---	67	---	---	<0.025
ACW #01	ACW #01	06-Feb-96	16,000	8.3	9,700	5,200	280	---	2.1	0.88	0.02	---	---	---	---	1.0	---	78	---	---	<0.006
ACW #01	ACW #01	06-Feb-96	16,170	8.2	9,440	5,770	293	---	2.06	2.1	<1.25	---	---	---	---	1.1	---	84	---	---	<0.1
ACW #01	ACW #01	08-May-96	14,620	8.2	8,190	4,130	268	---	<1.25	2.2	<1.25	---	---	---	---	1.0	---	93	---	---	0.01
ACW #01	ACW #01	13-Aug-96	12,000	8.1	7,400	3,500	270	---	1.9	4.9	<0.05	---	---	---	---	1.1	---	110	---	---	0.019
ACW #01	ACW #01	05-Nov-96	11,000	8.1	7,200	3,700	250	---	2	4.4	<0.05	---	---	---	---	1.0	---	81	---	---	<0.007
ACW #01	ACW #01	06-May-97	14,800	---	8,800	5,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	20,800	8.4	12,000	7,800	320	---	<2	2.1	<0.5	---	---	---	---	1.0	---	83	---	---	<0.01
ACW #01D	ACW #01D	21-Nov-97	20,700	8.2	12,000	7,500	320	---	2	2.2	<0.5	---	---	---	---	0.9	---	76	---	---	<0.01
S98-0170	ACW #01	12-May-98	16,000	---	9,600	5,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	20,300	8.18	12,900	6,100	260	17.7	<5	2.3	<0.05	---	---	---	---	1.1	---	100	---	---	<0.0025
M99-0005	ACW #01	11-May-99	16,900	---	8,500	5,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	14,800	8.02	7,800	5,500	210	20.6	<4	2.2	<0.05	---	0.047	0.62	0.33	1.2	<0.002	160	<0.005	<0.005	<0.0025
M00-0081	ACW #01	09-May-00	19,300	---	11,300	7,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	15,500	8.13	9,900	5,500	300	15.2	<2	2.3	<1	---	---	0.30	0.29	1.0	<0.01	120	<0.01	---	<0.005
M01-0133	ACW #01	01-May-01	14,200	---	7,640	5,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0469	ACW #01	22-Oct-01	12,400	7.92	6,580	4,400	380	20.3	<5	2.5	<2.5	---	<0.05	0.21	0.24	0.92	<0.005	82	<0.01	<0.01	<0.005
ACW #02A	ACW #02A	06-May-97	26,800	---	17,000	11,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	24,400	9.2	16,000	8,600	<10	---	5	7.6	<0.5	---	---	---	---	1.1	---	3	---	---	<0.01
S98-0167	ACW #02A	11-May-98	26,000	---	16,000	8,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	25,200	9.40	20,200	7,800	17	18.3	<5	12	<0.05	---	---	---	---	1.4	---	3.0	---	---	<0.0025
M99-0013	ACW #02A	12-May-99	24,400	---	12,000	7,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	24,000	9.42	13,000	7,600	25	19.8	<4	16	<0.05	---	0.35	3.6	0.48	2.3	0.016	4.2	<0.005	0.0041	0.0086
M00-0078	ACW #02A	08-May-00	21,500		13,600	7,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	19,100	9.75	12,800	6,500	28	14.1	<2	11	<1	---	---	1.4	0.31	1.2	0.018	6.4	0.018	---	0.034
M01-0136	ACW #02A	02-May-01	18,500	---	10,900	5,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0468	ACW #02A	22-Oct-01	19,900	9.88	12,100	4,600	6.5	19.8	<10	11	<5	---	0.16	1.4	0.26	1.4	0.016	3.3	<0.01	<0.01	<0.005
ACW #03	ACW #03	06-May-97	18,500	---	11,000	6,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	23,000	---	13,000	7,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0157	ACW #03	11-May-98	24,000	---	15,000	8,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	20,800	---	12,400	7,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	19,600	---	10,100	6,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	18,900	---	9,120	6,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #01	ACW #01	05-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	0.38	---	72	0.062	---	---	---	12	---	33	---	2,600	---	<0.020	700	---	---	---	470
ACW #01	ACW #01	27-Jun-95	0.59	---	92	0.077	---	---	---	15	---	35	---	3,200	---	<0.02	710	---	---	---	510
ACW #01	ACW #01	29-Aug-95	0.18	---	78	0.069	---	---	---	11	---	28	---	2,400	---	<0.02	820	---	---	---	590
ACW #01	ACW #01	06-Feb-96	0.56	---	100	0.069	---	---	---	16	---	36	---	4,300	---	<0.010	830	---	---	---	620
ACW #01	ACW #01	06-Feb-96	0.7	---	102	0.1	---	---	---	17	---	41	---	3,900	---	<0.1	759	---	---	---	630
ACW #01	ACW #01	08-May-96	0.6	---	118	0.09	---	---	---	18	---	54	---	3,070	---	<0.05	310	---	---	---	718
ACW #01	ACW #01	13-Aug-96	0.68	---	100	0.078	---	---	---	8.6	---	41	---	2,400	---	0.008	730	---	---	---	690
ACW #01	ACW #01	05-Nov-96	0.59	---	98	0.062	---	---	---	11	---	16	---	3,000	---	0.011	810	---	---	---	610
ACW #01	ACW #01	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	0.6	---	110	0.06	---	---	---	20	---	14	---	3,900	---	0.04	680	---	---	---	---
ACW #01D	ACW #01D	21-Nov-97	0.5	---	100	0.07	---	---	---	20	---	13	---	4,000	---	0.03	670	---	---	---	---
S98-0170	ACW #01	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	0.74	---	110	0.062	---	---	---	16	---	15	---	3,800	---	<0.05	840	840	<25	<25	700
M99-0005	ACW #01	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	1.6	<0.005	110	0.13	<0.0002	0.013	<0.02	13	---	24	<0.005	3,100	<0.005	<0.05	780	780	<25	<25	870
M00-0081	ACW #01	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	3.6	<0.05	82	0.21	<0.0002	---	---	9.5	<0.1	25	<0.02	2,600	---	<0.1	720	720	<25	<25	640
M01-0133	ACW #01	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0469	ACW #01	22-Oct-01	2.3	<0.05	60	0.18	<0.0002	<0.01	<0.04	11	<0.1	26	<0.02	3,000	<0.005	<0.1	600	600	<25	<25	450
ACW #02A	ACW #02A	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	0.2	---	<1	<0.01	---	---	---	12	---	10	---	6,000	---	<0.02	2,200	---	---	---	---
S98-0167	ACW #02A	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	0.37	---	0.96	<0.0025	---	---	---	12	---	12	---	6,400	---	<0.05	2,400	1500	860	<25	11
M99-0013	ACW #02A	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	0.30	<0.005	1.1	0.0041	0.00051	0.085	0.041	14	---	26	<0.005	6,100	0.037	<0.05	2,700	1700	990	<50	15
M00-0078	ACW #02A	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	1.0	<0.05	1.0	0.011	0.0002	---	---	8.5	<0.1	28	<0.02	3,600	---	<0.1	870	870	<25	<25	18
M01-0136	ACW #02A	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0468	ACW #02A	22-Oct-01	0.4	<0.05	0.23	0.0062	0.00066	0.053	<0.04	8.9	<0.1	36	<0.02	5,200	0.027	<0.1	3,700	1,300	2,400	<125	9.2
ACW #03	ACW #03	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0157	ACW #03	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M00-0077	ACW #03	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0132	ACW #03	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0474	ACW #3	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	29	12	<5.0	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	170	150	<5.0	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0168	ACW #04	12-May-98	190	170	60	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	190	140	49	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0012	ACW #04	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	240	160	44	81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0079	ACW #04	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	63	17	41	190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0137	ACW #04	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0467	ACW #04	22-Oct-01	12	3	32	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	10-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	27-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Feb-96	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	08-May-96	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	13-Aug-96	<1.0	1.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Nov-96	1.1	1.4	1.2	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	07-May-97	0.84	1.2	0.93	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	0.9	1.6	0.8	1.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0183	ACW #05	13-May-98	0.79	1.5	0.77*	12*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	<2	2.7	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0092	ACW #05	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0157	ACW #05	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0481	ACW #05	24-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M00-0077	ACW #03	08-May-00	19,400	---	11,900	7,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	17,500	---	11,900	7,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0132	ACW #03	01-May-01	19,200	---	9,900	9,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0474	ACW #3	23-Oct-01	18,800	---	10,600	7,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	48,500	---	25,000	21,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	172,000	7.3	94,000	58,000	2,100	---	33	<0.5	<0.5	---	---	---	---	0.7	---	580	---	---	<0.01
S98-0168	ACW #04	12-May-98	160,000	---	99,000	74,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	121,000	6.74	83,100	56,000	1,800	17.6	<20	0.51	<0.5	---	---	---	---	1.1	---	610	---	---	<0.0025
M99-0012	ACW #04	12-May-99	131,000	---	84,800	45,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	95,000	6.95	46,300	44,000	1,300	20.7	<20	0.64	<0.05	---	<0.025	0.092	0.15	1.4	<0.002	650	<0.005	0.018	0.0080
M00-0079	ACW #04	08-May-00	106,000		72,300	47,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	25,600	7.73	16,300	10,000	88	15.1	<2	12	<1	---	---	0.47	0.87	2.0	<0.01	57	<0.01	---	<0.005
M01-0137	ACW #04	02-May-01	29,600	---	17,400	12,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0467	ACW #04	22-Oct-01	35,300	7.15	21,400	13,000	200	20.2	<20	8.2	<10	---	<0.05	0.31	0.81	1.5	<0.005	290	<0.01	<0.01	<0.005
ACW #05	ACW #05	10-Mar-93	10,400	---	6,110	2,544	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	4,480	---	323	1,228	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	4,140	---	3,064	650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	4,390	---	3,202	720	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	4,131	---	3,300	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	4,500	---	3,112	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	4,050	---	2,848	499	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	3,900	7.0	2,800	530	1,100	---	1.3	<1.0	3.5	---	---	---	---	0.9	---	270	---	---	<0.025
ACW #05	ACW #05	27-Jun-95	3,800	7.3	2,800	460	800	---	1.1	<1.0	3.4	---	---	---	---	1.0	---	270	---	---	<0.025
ACW #05	ACW #05	30-Aug-95	3,900	7.0	2,700	510	890	---	1	<10	<20	---	---	---	---	1.1	---	240	---	---	<0.025
ACW #05	ACW #05	06-Feb-96	3,800	7.5	2,200	510	920	---	0.92	0.12	4.7	---	---	---	---	1.4	---	240	---	---	<0.006
ACW #05	ACW #05	06-Feb-96	3,090	7.3	2,745	506	835	---	<1.25	0.29	4.9	---	---	---	---	1.4	---	240	---	---	<0.1
ACW #05	ACW #05	08-May-96	3,650	7.2	2,460	519	653	---	4.5	0.42	5	---	---	---	---	0.8	---	167	---	---	0.01
ACW #05	ACW #05	13-Aug-96	3,400	7.3	2,500	500	710	---	1	0.7	5.4	---	---	---	---	2.0	---	200	---	---	<0.006
ACW #05	ACW #05	06-Nov-96	3,300	7.5	2,300	500	710	---	1.2	0.57	<0.05	---	---	---	---	1.9	---	180	---	---	<0.007
ACW #05	ACW #05	07-May-97	3,020	---	2,000	430	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	3,160	7.7	2,000	470	320	---	1.7	0.6	6	---	---	---	---	1.3	---	170	---	---	<0.01
S98-0183	ACW #05	13-May-98	3,100	---	2,800	570	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	2,930	---	1,910	440	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	3,190	---	1,960	450	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	3,250	7.23	1,890	1,000	440	18.5	<2	0.77	6.5	---	0.094	0.0061	0.034	1.1	<0.002	190	0.019	<0.005	<0.0025
M00-0092	ACW #05	10-May-00	3,180		1,960	750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	2,650	7.3	1,920	860	750	18.5	<40	0.85	5.3	---	---	<0.1	0.051	1.1	<0.01	200	0.028	---	0.0095
M01-0157	ACW #05	06-May-01	3,030	---	1,920	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0481	ACW #05	24-Oct-01	3,120	---	1,860	590	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	18-Jun-93	8,220	---	5,027	2,108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M00-0077	ACW #03	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0132	ACW #03	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0474	ACW #3	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	0.2	---	360	6.1	---	---	---	250	---	13	---	33,000	---	<0.02	500	---	---	---	---
S98-0168	ACW #04	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	0.14	---	370	7.0	---	---	---	170	---	10	---	37,000	---	<0.05	480	480	<25	<25	3100
M99-0012	ACW #04	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	0.23	<0.005	370	12	<0.0002	0.0076	<0.02	170	---	14	<0.005	42,000	0.14	<0.05	500	500	<25	<25	3200
M00-0079	ACW #04	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	1.7	<0.05	28	0.50	<0.0002	---	---	23	<0.1	25	<0.02	3,600	---	<0.1	1600	1600	<25	<25	260
M01-0137	ACW #04	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0467	ACW #04	22-Oct-01	1.5	<0.05	110	0.58	0.00086	0.032	<0.04	32	<0.1	30	<0.02	7,300	0.0066	<0.1	970	970	<25	<25	1200
ACW #05	ACW #05	10-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	0.46	---	39	0.026	---	---	---	6.6	---	57	---	540	---	<0.020	320	---	---	---	980
ACW #05	ACW #05	27-Jun-95	0.34	---	40	0.02	---	---	---	6.9	---	56	---	530	---	<0.020	320	---	---	---	240
ACW #05	ACW #05	30-Aug-95	<0.10	---	36	<0.015	---	---	---	8.7	---	44	---	550	---	<0.020	310	---	---	---	810
ACW #05	ACW #05	06-Feb-96	1.5	---	32	0.026	---	---	---	6.5	---	64	---	580	---	0.015	260	---	---	---	740
ACW #05	ACW #05	06-Feb-96	2	---	32	0.1	---	---	---	8.1	---	66	---	580	---	<0.1	284	---	---	---	730
ACW #05	ACW #05	08-May-96	0.2	---	24	<0.05	---	---	---	8	---	35	---	506	---	<0.05	190	---	---	---	515
ACW #05	ACW #05	13-Aug-96	0.024	---	28	<0.007	---	---	---	6.3	---	58	---	520	---	0.033	320	---	---	---	620
ACW #05	ACW #05	06-Nov-96	0.3	---	25	0.008	---	---	---	6	---	27	---	520	---	0.022	350	---	---	---	560
ACW #05	ACW #05	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	0.5	---	24	<0.01	---	---	---	5	---	26	---	480	---	<0.02	320	---	---	---	---
S98-0183	ACW #05	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	0.15	<0.005	24	0.011	<0.0002	<0.005	<0.02	6.3	---	26.0	<0.005	540	0.0055	0.81	270	270	<25	<25	560
M00-0092	ACW #05	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	1.6	<0.05	23	0.032	<0.0002	---	---	6.1	<0.1	34	<0.02	450	---	<0.1	280	280	<25	<25	590
M01-0157	ACW #05	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0481	ACW #05	24-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #06	ACW #06	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	27-Jun-95	14	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	29-Aug-95	7	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Feb-96	6.6	3.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-May-96	4.08	1.58	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	14-Aug-96	4.2	2.6	<2.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Nov-96	4.5	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Nov-96	4.6	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-May-97	8.2	2.8	2.6	2.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	10	3.8	1.4	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06D	ACW #06D	22-Oct-97	9.5	3.1	1.2	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0181	ACW #06	13-May-98	15	12	<0.50	3.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	11	6	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0019	ACW #06	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	<20	<20	<20	<40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0089	ACW #06	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0156	ACW #06	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0480	ACW #06	24-Oct-01	5.6	<2	<2	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	07-May-97	7.3	2.5	3.1	1.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	6.4	3.4	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0182	ACW #07	13-May-98	7.0	3.2	2.1*	1.7*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	8	3	2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0017	ACW #07	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	7.2	5.3	2.4	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0088	ACW #07	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0152	ACW #07	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0153	ACW #07D	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0477	ACW #07	24-Oct-01	7.4	<2	<2	2.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	06-May-97	99	10	4.1	3.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	36	3.9	2	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0173	ACW #08	12-May-98	37	4.5	2.9	1.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	140	13	6	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
ACW #06	ACW #06	16-Sep-93	11,130	---	6,656	2,737	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	8,540	---	5,646	2,154	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	21-Apr-94	11,080	---	6,930	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	11,988	---	6,910	2,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	11,530	---	6,755	2,873	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	10,000	8.1	6,400	2,800	110	---	1.4	31	<2.0	---	---	---	---	0.9	---	70	---	---	<0.025
ACW #06	ACW #06	27-Jun-95	10,000	9.0	8,600	3,500	110	---	1.8	44	<2.0	---	---	---	---	1.1	---	64	---	---	<0.025
ACW #06	ACW #06	29-Aug-95	12,000	8.4	7,100	3,000	110	---	1.8	26	<20	---	---	---	---	0.9	---	42	---	---	<0.025
ACW #06	ACW #06	06-Feb-96	11,000	8.0	6,600	2,600	72	---	1.3	3.8	<0.0071	---	---	---	---	1.1	---	91	---	---	<0.006
ACW #06	ACW #06	06-Feb-96	10,320	7.8	5,630	3,180	79	---	1.52	10	<1.25	---	---	---	---	1.3	---	76	---	---	<0.1
ACW #06	ACW #06	08-May-96	10,620	7.7	6,460	2,880	48	---	<1.25	6.4	<1.25	---	---	---	---	1.3	---	35	---	---	0.02
ACW #06	ACW #06	14-Aug-96	11,000	7.9	7,100	2,900	88	---	1.8	21	<0.05	---	---	---	---	1.2	---	85	---	---	<0.006
ACW #06	ACW #06	06-Nov-96	12,000	8.6	7,700	3,400	74	---	1.3	18	<0.05	---	---	---	---	1.2	---	98	---	---	<0.007
ACW #06	ACW #06	06-Nov-96	12,000	8.6	7,700	3,600	62	---	1.3	18	<0.05	---	---	---	---	1.1	---	88	---	---	<0.007
ACW #06	ACW #06	08-May-97	8,450	---	5,500	2,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	10,200	8.2	6,500	2,900	100	---	3	16.5	<0.05	---	---	---	---	0.9	---	68	---	---	<0.01
ACW #06D	ACW #06D	22-Oct-97	10,700	8.3	6,200	2,900	98	---	3	17.2	<0.05	---	---	---	---	0.9	---	68	---	---	<0.01
S98-0181	ACW #06	13-May-98	12,000	---	10,000	3,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	11,600	8.00	6,530	3,000	74	20.1	<5	25	<0.05	---	---	---	---	1.2	---	64	---	---	<0.0025
M99-0019	ACW #06	13-May-99	11,200	---	6,620	2,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	11,500	8.54	6,170	2,800	230	19.1	<4	28	<0.05	---	0.083	1.7	0.35	1.3	0.0061	69	0.0045	0.0084	<0.0025
M00-0089	ACW #06	10-May-00	10,300		6,290	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	8,520	8.2	4,350	3,100	340	18.4		22.9	<0.05	---	---	0.82	0.28	1.5	<0.01	83	<0.01	---	0.016
M01-0156	ACW #06	06-May-01	9,020	---	5,240	2,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0480	ACW #06	24-Oct-01	8,350	8.2	4,730	2,400	220	19.5	<10	22	<2.5	---	0.180	0.58	0.21	1.3	<0.005	57	<0.01	<0.01	<0.005
ACW #07	ACW #07	07-May-97	13,200	---	8,100	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	13,800	7.3	7,500	4,400	50	---	4	4	<0.05	---	---	---	---	0.6	---	200	---	---	<0.01
S98-0182	ACW #07	13-May-98	14,000	---	11,000	4,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	14,000	7.05	8,290	4,400	130	20.3	<5	3.8	<0.05	---	---	---	---	0.77	---	220	---	---	<0.0025
M99-0017	ACW #07	12-May-99	14,300	---	7,420	4,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	14,700	7.05	8,010	4,800	160	18.7	<4	3.4	<0.05	---	0.11	0.091	1.2	0.79	<0.002	270	<0.005	<0.005	<0.0025
M00-0088	ACW #07	10-May-00	14,900		8,900	7,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	12,500	7.1	8,400	5,100	200	19.0	<20	3.0	<0.05	---	---	<0.1	0.94	0.75	<0.01	240	0.012	---	0.0052
M01-0152	ACW #07	06-May-01	16,400	---	8,980	6,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0153	ACW #07D	06-May-01	16,300	---	9,640	6,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0477	ACW #07	24-Oct-01	17,400	7.11 H3	9,180	8,500	110	21.0	<20	2.9	<5	---	0.29	<0.1	1.30	0.74	<0.005	230	0.012	<0.01	<0.005
ACW #08	ACW #08	06-May-97	89,200	---	50,000	29,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	49,200	7.0	29,000	17,000	800	---	<5	0.6	<0.5	---	---	---	---	0.6	---	440	---	---	<0.01
S98-0173	ACW #08	12-May-98	48,000	---	28,000	34,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	44,200	6.79	28,700	24,000	740	17.9	<10	0.82	<0.05	---	---	---	---	0.62	---	370	---	---	<0.0025

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #06	ACW #06	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	3.9	---	19	0.079	---	---	---	<5.0	---	48	---	2,200	---	<0.020	1,300	---	---	---	200
ACW #06	ACW #06	27-Jun-95	5.8	---	16	0.082	---	---	---	<5.0	---	44	---	3,000	---	<0.080	1,500	---	---	---	130
ACW #06	ACW #06	29-Aug-95	0.54	---	16	0.04	---	---	---	<5.0	---	42	---	2,500	---	<0.020	1,500	---	---	---	200
ACW #06	ACW #06	06-Feb-96	4.6	---	23	0.12	---	---	---	3.6	---	62	---	2,700	---	0.029	1,400	---	---	---	320
ACW #06	ACW #06	06-Feb-96	5	---	21	0.1	---	---	---	3.6	---	50	---	2,400	---	<0.1	1,315	---	---	---	275
ACW #06	ACW #06	08-May-96	4.1	---	21	0.14	---	---	---	4	---	40	---	2,380	---	<0.05	1,396	---	---	---	175
ACW #06	ACW #06	14-Aug-96	4.5	---	23	0.13	---	---	---	3.4	---	60	---	2,900	---	0.024	1,400	---	---	---	310
ACW #06	ACW #06	06-Nov-96	5.3	---	27	0.16	---	---	---	3.8	---	32	---	2,800	---	0.032	1,600	---	---	---	360
ACW #06	ACW #06	06-Nov-96	4	---	22	0.13	---	---	---	3.6	---	27	---	2,400	---	0.019	1,600	---	---	---	310
ACW #06	ACW #06	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	2.6	---	19	0.11	---	---	---	3	---	21	---	2,200	---	<0.02	1,400	---	---	---	---
ACW #06D	ACW #06D	22-Oct-97	2.3	---	19	0.11	---	---	---	3	---	21	---	2,200	---	<0.02	1,400	---	---	---	---
S98-0181	ACW #06	13-May-98	---	---	---	---	---	---	---	---	---	0.56	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	2.4	---	23	0.099	---	---	---	2.7	---	22	---	2,640	---	<0.05	1,600	1,600	<25	<25	250
M99-0019	ACW #06	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	2.2	<0.005	19	0.087	<0.0002	0.080	0.030	2.3	---	29	<0.005	2,900	<0.005	<0.05	1,500	1,400	130	<25	250
M00-0089	ACW #06	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	9.7	<0.05	22	0.13	<0.0002	---	---	6.9	<0.1	30	<0.02	710	---	<0.1	1,200	1,200	14	<25	300
M01-0156	ACW #06	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0480	ACW #06	24-Oct-01	1.8	<0.05	16	0.081	<0.0002	0.052	<0.04	2.9	<0.1	35	<0.02	1,900	<0.005	<0.1	1,100	1,100	<25	<25	210
ACW #07	ACW #07	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	14.4	---	80	0.2	---	---	---	3	---	18	---	2,500	---	<0.2	730	---	---	---	---
S98-0182	ACW #07	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	15	---	91	0.15	---	---	---	4.3	---	23	---	3,100	---	<0.05	830	830	<25	<25	920
M99-0017	ACW #07	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	14	<0.005	93	0.13	<0.0002	0.025	<0.02	3.8	---	23	<0.005	3,300	<0.005	<0.05	870	870	<25	<25	1000
M00-0088	ACW #07	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	12	<0.05	87	0.11	<0.0002	---	---	4.2	<0.1	31	<0.02	710	---	<0.1	840	840	<25	<25	960
M01-0152	ACW #07	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0153	ACW #07D	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0477	ACW #07	24-Oct-01	15	0.075	100	0.11	<0.0002	0.025	<0.04	4.2	<0.1	43	<0.02	3,600	<0.005	<0.1	820	820	<25	<25	990
ACW #08	ACW #08	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	1.3	---	210	2.2	---	---	---	57	---	19	---	9,300	---	<0.02	520	---	---	---	---
S98-0173	ACW #08	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	1.5	---	200	1.7	---	---	---	46	---	19	---	11,000	---	<0.05	430	430	<25	<25	1,700

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, ug/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0010	ACW #08	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	32	6.2	3.7	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0086	ACW #08	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	15	<2	2.1	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0134	ACW #08	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0475	ACW #08	23-Oct-01	41	5	3.1	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	<5	22	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	28-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Feb-96	1.8	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-96	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Aug-96	1.4	1.6	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Nov-96	2.3	2.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	19-Feb-97	1.3	4.0	10	4.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	2.6	2.6	1.4	1.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0185	ACW #09	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0022	ACW #09	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0100	ACW #09	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0238	ACW #09D	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0147	ACW #09	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0483	ACW #09	25-Oct-01	<2	<2	<2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0484	ACW #9D	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M99-0010	ACW #08	11-May-99	52,500	---	29,800	21,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	36,400	7.09	17,700	15,000	580	20.5	<10	0.86	<0.05	---	<0.025	<0.005	0.11	0.83	<0.002	500	<0.005	<0.005	<0.0025
M00-0086	ACW #08	09-May-00	62,900		41,800	32,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	36,300	6.85	26,000	17,000	740	15.0	<2	0.92	<1	---	---	<0.1	0.15	0.79	<0.01	440	<0.01	---	<0.005
M01-0134	ACW #08	01-May-01	51,300	---	28,200	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0475	ACW #08	23-Oct-01	33,400	7.02	20,000	11,000	590	21.6	<20	1.1	<10	---	<0.05	<0.1	0.12	0.62	<0.005	410	<0.01	<0.01	<0.005
ACW #09	ACW #09	17-Jun-93	5,900	---	4,435	2,288	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	3,100	---	2,119	915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	3,670	---	2,300	1,184	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	3,900	---	2,508	1,150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	5,450	---	3,510	1,650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	7,110	---	4,240	2,083	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	11,000	6.6	6,800	5,600	440	---	2.1	<1.0	<2.0	---	---	---	---	0.4	---	820	---	---	<0.025
ACW #09	ACW #09	28-Jun-95	9,100	7.0	6,200	3,500	360	---	1.9	<1.0	<2.0	---	---	---	---	0.4	---	770	---	---	<0.025
ACW #09	ACW #09	30-Aug-95	7,150	6.5	4,500	2,500	370	---	1.5	<10	<20	---	---	---	---	0.4	---	640	---	---	<0.025
ACW #09	ACW #09	07-Feb-96	7,500	7.7	5,400	2,400	320	---	1.5	0.16	0.039	---	---	---	---	0.4	---	570	---	---	<0.006
ACW #09	ACW #09	07-Feb-96	7,450	6.8	4,620	2,300	341	---	1.85	0.36	<1.25	---	---	---	---	0.4	---	600	---	---	<0.1
ACW #09	ACW #09	08-May-96	7,530	6.8	4,210	2,210	322	---	3	0.35	<1.25	---	---	---	---	<0.5	---	508	---	---	0.01
ACW #09	ACW #09	14-Aug-96	4,400	7.4	3,600	1,200	180	---	1.2	1.4	0.13	---	---	---	---	0.4	---	490	---	---	<0.006
ACW #09	ACW #09	07-Nov-96	4,200	7.3	3,100	1,200	---	---	---	1.1	0.055	---	---	---	---	0.3	---	360	---	---	<0.007
ACW #09	ACW #09	19-Feb-97	4,110	---	2,500	1,260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	2,800	---	2,100	830	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	3,380	7.2	1,600	880	130	---	1.3	1.2	<0.05	---	---	---	---	0.2	---	270	---	---	<0.01
S98-0185	ACW #09	13-May-98	5,100	---	4,500	1,600	---	---	---	1.1	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	13,200	6.49	8,980	4,100	440	20.8	<5	0.40	<0.05	---	---	---	---	0.49	---	1,200	---	---	<0.0025
M99-0022	ACW #09	13-May-99	11,100	---	6,400	3,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	8,580	6.78	5,950	2,900	280	19.6	<4	0.71	<0.05	---	0.030	0.0066	0.13	0.43	<0.002	820	<0.005	<0.005	<0.0025
M00-0100	ACW #09	12-May-00	7,830	---	4,810	2,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	7,960	---	4,930	3,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	7,630	6.8	5,860	3,000	230	19.0	<20	0.68	<0.05	---	---	<0.1	0.14	0.57	<0.01	500	<0.01	---	0.0062
M00-0238	ACW #09D	03-Nov-00	7,620	6.8	11,200	2,900	260	19.1	<20	0.66	<0.05	---	---	<0.1	0.13	0.57	<0.01	490	<0.01	---	0.0073
M01-0147	ACW #09	06-May-01	8,300	---	4,640	2,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0483	ACW #09	25-Oct-01	7,820	6.8 H3	4,390	4,000	200	20.1	<5	0.88	<1.25	---	<0.05	<0.1	0.10	0.46	<0.005	280	<0.01	<0.01	<0.005
M01-0484	ACW #9D	25-Oct-01	7,700	6.84 H3	4,400	3,700	190	19.9	<5	0.99	<1.25	---	0.075	<0.1	0.11	0.49	<0.005	290	<0.01	<0.01	<0.005
ACW #10	ACW #10	18-Jun-93	1061	---	701	1027	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	1,349	---	1,190	421	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	1,800	---	1,238	420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	2,440	---	1,638	700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	2,592	---	1,694	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	2,660	---	1,426	619	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0010	ACW #08	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	2.7	<0.005	230	2.4	<0.0002	0.031	<0.02	99	---	16	<0.005	12,000	0.048	<0.05	490	490	<25	<25	2,300
M00-0086	ACW #08	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	3.3	<0.05	220	2.1	<0.0002	---	---	69	<0.1	24	<0.02	3,600	---	<0.1	410	410	<25	<25	2,000
M01-0134	ACW #08	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0475	ACW #08	23-Oct-01	2.6	0.12	200	1.9	<0.0002	<0.01	<0.04	58	<0.1	26	<0.02	11,000	0.037	<0.1	350	350	<25	<25	1,800
ACW #09	ACW #09	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	0.17	---	280	1	---	---	---	16	---	49	---	910	---	0.025	320	---	---	---	4,500
ACW #09	ACW #09	28-Jun-95	0.28	---	250	0.98	---	---	---	15	---	51	---	1,000	---	<0.020	300	---	---	---	2,700
ACW #09	ACW #09	30-Aug-95	0.19	---	220	0.86	---	---	---	14	---	43	---	880	---	<0.040	240	---	---	---	2,000
ACW #09	ACW #09	07-Feb-96	0.48	---	180	0.71	---	---	---	14	---	47	---	810	---	<0.010	300	---	---	---	2,200
ACW #09	ACW #09	07-Feb-96	0.4	---	175	0.7	---	---	---	16	---	56	---	810	---	<0.1	291	---	---	---	2,220
ACW #09	ACW #09	08-May-96	0.4	---	183	0.49	---	---	---	17	---	60	---	687	---	<0.05	209	---	---	---	2,020
ACW #09	ACW #09	14-Aug-96	0.66	---	160	0.65	---	---	---	13	---	53	---	730	---	0.027	220	---	---	---	1,900
ACW #09	ACW #09	07-Nov-96	0.4	---	110	0.44	---	---	---	10	---	---	---	510	---	0.029	---	---	---	---	---
ACW #09	ACW #09	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	0.6	---	84	0.31	---	---	---	10	---	17	---	320	---	0.05	200	---	---	---	---
S98-0185	ACW #09	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	0.63	---	400	1.4	---	---	---	25	---	31	---	1,400	---	<0.05	340	340	<25	<25	4,600
M99-0022	ACW #09	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	0.96	<0.005	230	0.80	<0.0002	0.0062	<0.02	22	---	29	<0.005	990	0.032	<0.05	270	270	<25	<25	3,000
M00-0100	ACW #09	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	1.4	<0.05	160	0.43	<0.0002	---	---	18	<0.1	32	<0.02	670	---	<0.1	500	500	<25	<25	1,900
M00-0238	ACW #09D	03-Nov-00	1.4	<0.05	150	0.42	<0.0002	---	---	18	<0.1	31	<0.02	630	---	<0.1	510	510	<25	<25	1,900
M01-0147	ACW #09	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0483	ACW #09	25-Oct-01	1.2	0.058	89	0.22	<0.0002	<0.01	<0.04	14	<0.1	36	<0.02	1,200	0.034	<0.1	460	460	<25	<25	1,100
M01-0484	ACW #9D	25-Oct-01	1.3	0.067	96	0.23	<0.0002	<0.01	<0.04	14	<0.1	36	<0.02	1,300	0.036	<0.1	440	440	<25	<25	1,100
ACW #10	ACW #10	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #10	ACW #10	17-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Feb-96	3.9	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Feb-96	4.3	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	08-May-96	1.22	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Aug-96	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Nov-96	1.2	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	08-May-97	1.3	1	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	1.14	1.17	<0.5	0.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0187	ACW #10	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0023	ACW #10	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0099	ACW #10	11-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0158	ACW #10	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0487	ACW #10	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	19-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Jun-95	5.1	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	29-Aug-95	8	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	07-Feb-96	6.9	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	07-Feb-96	7.6	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	08-May-96	6.76	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	13-Aug-96	7.9	2.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	05-Nov-96	32	1.7	<1.0	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	06-May-97	21	5.3	3.1	3.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	28	3.1	<0.5	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0174	ACW #11	12-May-98	70	8.2	1.3	4.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	51	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0014	ACW #11	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	14	4.5	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0087	ACW #11	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
ACW #10	ACW #10	17-May-95	3,900	6.9	2,300	1,600	300	---	1.1	<1.0	1.1	---	---	---	---	0.3	---	320	---	---	<0.025
ACW #10	ACW #10	28-Jun-95	3,100	7.3	2,300	1,900	230	---	0.98	<1.0	<2.0	---	---	---	---	0.3	---	280	---	---	<0.025
ACW #10	ACW #10	30-Aug-95	3,100	7.0	2,200	790	210	---	0.9	<10	<20	---	---	---	---	0.2	---	280	---	---	<0.025
ACW #10	ACW #10	07-Feb-96	3,200	7.8	2,300	850	230	---	0.88	0.24	0.42	---	---	---	---	0.3	---	320	---	---	<0.006
ACW #10	ACW #10	07-Feb-96	3,100	7.1	2,100	829	242	---	<1.25	0.44	<1.25	---	---	---	---	0.3	---	320	---	---	<0.1
ACW #10	ACW #10	08-May-96	2,322	7.2	1,290	603	190	---	4.5	0.46	2.2	---	---	---	---	<0.5	---	206	---	---	<0.01
ACW #10	ACW #10	14-Aug-96	2,400	7.6	1,900	560	160	---	0.82	1.4	0.58	---	---	---	---	0.3	---	210	---	---	<0.006
ACW #10	ACW #10	07-Nov-96	250	7.5	1,800	610	170	---	0.83	1.1	0.49	---	---	---	---	0.2	---	200	---	---	<0.007
ACW #10	ACW #10	08-May-97	1,880	---	1,500	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	2,870	7.2	1,500	670	210	---	1.2	1	0.36	---	---	---	---	0.2	---	220	---	---	<0.01
S98-0187	ACW #10	14-May-98	2,400	---	1,200	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	2,900	7.06	1,960	800	210	20.8	<2	0.90	0.83	---	---	---	---	0.29	---	300	---	---	<0.0025
M99-0023	ACW #10	13-May-99	2,810	---	1,660	730	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	2,470	7.23	1,720	660	160	19.4	<2	1.2	0.62	---	0.037	0.010	0.091	0.26	<0.002	260	<0.005	<0.005	<0.0025
M00-0099	ACW #10	11-May-00	3,620		2,430	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	3,100	7.1	2,840	980	220	16.4	<2	1.0	<1	---	---	<0.1	0.15	0.37	<0.01	470	<0.01	---	0.0061
M01-0158	ACW #10	06-May-01	3,660	---	2,360	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0487	ACW #10	25-Oct-01	3,350	7.02	2,270	930	220	19.8	2.1	1.0	<0.5	---	0.057	<0.1	0.10	0.30	<0.005	300	<0.01	<0.01	<0.005
ACW #11	ACW #11	19-Jun-93	25,000	---	18,670	9,737	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	10,570	---	6,820	3,437	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	10,160	---	6,592	3,620	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	16,290	---	9,520	6,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	20,060	---	13,280	6,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	20,550	---	12,900	6,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	32,200	---	19,880	11,582	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	12,000	6.8	7,200	4,400	250	---	1.9	<1.0	<2.0	---	---	---	---	0.3	---	740	---	---	<0.025
ACW #11	ACW #11	27-Jun-95	11,000	7.2	7,000	6,500	210	---	1.6	<1.0	<2.0	---	---	---	---	0.4	---	720	---	---	<0.025
ACW #11	ACW #11	29-Aug-95	10,000	6.8	6,000	3,400	220	---	2.2	6.2	<2.0	---	---	---	---	0.3	---	550	---	---	<0.025
ACW #11	ACW #11	07-Feb-96	11,000	7.8	7,400	3,400	230	---	1.5	0.15	0.087	---	---	---	---	0.3	---	660	---	---	<0.006
ACW #11	ACW #11	07-Feb-96	11,030	7.2	6,740	3,770	248	---	1.6	0.39	<1.25	---	---	---	---	0.4	---	668	---	---	<0.1
ACW #11	ACW #11	08-May-96	9,840	7.3	5,080	3,120	206	---	<1.25	0.37	<1.25	---	---	---	---	<0.5	---	484	---	---	0.02
ACW #11	ACW #11	13-Aug-96	12,000	7.3	10,000	4,200	230	---	2	1.0	0.18	---	---	---	---	0.4	---	540	---	---	0.013
ACW #11	ACW #11	05-Nov-96	29	7.3	25,000	13,000	560	---	2.9	0.4	0.31	---	---	---	---	0.3	---	1,200	---	---	<0.007
ACW #11	ACW #11	06-May-97	10,200	---	6,700	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	27,900	7.6	16,000	9,800	520	---	<4	<0.5	0.16	---	---	---	---	0.3	---	1,000	---	---	<0.01
S98-0174	ACW #11	12-May-98	36,000	---	22,000	13,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	42,500	6.60	29,600	17,000	680	18.5	<10	0.43	0.11	---	---	---	---	0.32	---	1,500	---	---	<0.0025
M99-0014	ACW #11	12-May-99	19,800	---	11,100	7,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	19,300	6.94	13,600	7,800	340	19.1	<4	0.60	0.055	---	0.096	0.0088	0.42	0.30	<0.002	1,100	<0.005	<0.005	0.0039
M00-0087	ACW #11	09-May-00	31,500	---	21,000	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #10	ACW #10	17-May-95	0.12	---	110	0.037	---	---	---	8	---	43	---	170	---	<0.020	190	---	---	---	1,300
ACW #10	ACW #10	28-Jun-95	0.28	---	94	0.029	---	---	---	7.5	---	46	---	160	---	<0.020	190	---	---	---	1,200
ACW #10	ACW #10	30-Aug-95	<0.20	---	95	0.034	---	---	---	52	---	42	---	150	---	<0.040	180	---	---	---	1,100
ACW #10	ACW #10	07-Feb-96	0.24	---	110	0.032	---	---	---	8.4	---	36	---	190	---	0.011	200	---	---	---	1,200
ACW #10	ACW #10	07-Feb-96	0.4	---	107	<0.1	---	---	---	9.4	---	54	---	190	---	<0.1	194	---	---	---	1,240
ACW #10	ACW #10	08-May-96	0.1	---	92	<0.05	---	---	---	8	---	62	---	127	---	<.05	137	---	---	---	893
ACW #10	ACW #10	14-Aug-96	0.14	---	71	0.019	---	---	---	7	---	47	---	140	---	0.037	170	---	---	---	810
ACW #10	ACW #10	07-Nov-96	0.22	---	70	0.017	---	---	---	7.4	---	20	---	150	---	0.025	170	---	---	---	800
ACW #10	ACW #10	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	0.2	---	71	0.02	---	---	---	6	---	20	---	140	---	<0.02	200	---	---	---	---
S98-0187	ACW #10	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	0.099	---	110	0.0068	---	---	---	9.0	---	27	---	180	---	<0.05	180	180	<25	<25	1,200
M99-0023	ACW #10	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	0.26	<0.005	84	0.020	<0.0002	<0.005	<0.02	7.9	---	19	<0.005	170	0.013	<0.05	160	160	<25	<25	1,000
M00-0099	ACW #10	11-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	0.27	<0.05	140	0.026	<0.0002	---	---	16	<0.1	30	<0.02	330	---	<0.1	180	180	<25	<25	1,800
M01-0158	ACW #10	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0487	ACW #10	25-Oct-01	0.19	0.068	95	0.021	<0.0002	<0.01	<0.04	9.6	<0.1	35	<0.02	180	0.028	<0.1	160	160	<25	<25	1,100
ACW #11	ACW #11	19-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	0.36	---	260	0.23	---	---	---	16	---	42	---	1,200	---	<0.020	230	---	---	---	3,300
ACW #11	ACW #11	27-Jun-95	0.29	---	270	0.2	---	---	---	16	---	45	---	980	---	<0.020	210	---	---	---	2,800
ACW #11	ACW #11	29-Aug-95	0.17	---	210	0.088	---	---	---	16	---	44	---	880	---	<0.020	220	---	---	---	2,700
ACW #11	ACW #11	07-Feb-96	0.38	---	230	0.13	---	---	---	26	---	47	---	1,500	---	<0.010	210	---	---	---	2,600
ACW #11	ACW #11	07-Feb-96	0.5	---	224	0.1	---	---	---	31	---	46	---	1,400	---	<0.1	200	---	---	---	2,590
ACW #11	ACW #11	08-May-96	0.3	---	220	0.09	---	---	---	29	---	50	---	1,160	---	<0.05	111	---	---	---	2,110
ACW #11	ACW #11	13-Aug-96	0.28	---	190	0.061	---	---	---	24	---	47	---	1,700	---	0.12	160	---	---	---	2,100
ACW #11	ACW #11	05-Nov-96	0.25	---	430	0.14	---	---	---	35	---	21	---	5,100	---	0.068	170	---	---	---	4,700
ACW #11	ACW #11	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	0.4	---	330	0.22	---	---	---	27	---	18	---	2,700	---	0.21	170	---	---	---	---
S98-0174	ACW #11	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	0.68	---	520	0.35	---	---	---	41.0	---	22	---	5,100	---	<0.05	180	180	<25	<25	5,900
M99-0014	ACW #11	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	0.68	<0.005	280	0.17	<0.0002	0.0045	<0.02	27	---	19	<0.005	2,300	0.013	<0.05	140	140	<25	<25	3,900
M00-0087	ACW #11	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M00-0227	ACW #11	01-Nov-00	16	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0135	ACW #11	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0476	ACW #11	23-Oct-01	59	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	19-Feb-97	<0.5	<0.5	1.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	2.9	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	3	0.89	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	1.2	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	20-Aug-97	1.4	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	23-Oct-97	1.4	0.58	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0058	ACW #12	24-Feb-98	7.3	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0059	ACW #12D	24-Feb-98	6.7	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0188	ACW #12	01-Jun-98	<0.50	1.2	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0189	ACW #12D	01-Jun-98	4.4	2.5	6.1	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0294	ACW #12	11-Aug-98	2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0295	ACW #12D	11-Aug-98	2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0474	ACW #12	22-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0475	ACW #12D	22-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0083	ACW #12	23-Feb-99	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0084	ACW #12D	23-Feb-99	5	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0024	ACW #12	14-May-99	4	<2	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0026	ACW #12D	14-May-99	4	<2	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0087	ACW #12	11-Aug-99	5.3	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0088	ACW #12D	11-Aug-99	2.4	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0202	ACW #12	22-Oct-99	4.7	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0204	ACW #12D	22-Oct-99	4.4	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0024	ACW #12	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0098	ACW #12	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0197	ACW #12	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0240	ACW #12	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0011	ACW #12	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0145	ACW #12	03-May-01	2.4	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0146	ACW #12D	03-May-01	2.1	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0405	ACW #12	01-Aug-01	<2	<2	<2 Jc	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0486	ACW #12	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Feb-97	<0.5	<0.5	1.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	0.61	0.58	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	0.65	0.62	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	23-Oct-97	0.59	0.76	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0060	ACW #13	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M00-0227	ACW #11	01-Nov-00	25,700	6.82	21,900	10,000	490	13.1	<2	<0.4	<1	---	---	<0.1	0.37	0.46	<0.01	1,730	<0.01	---	<0.005
M01-0135	ACW #11	01-May-01	32,800	---	20,000	15,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0476	ACW #11	23-Oct-01	47,800	6.55	32,900	17,000	800	21.5	<20	0.41	<10	---	<0.05	<0.1	0.26	0.36	<0.005	2,500	<0.01	<0.01	<0.005
ACW #12	ACW #12	19-Feb-97	1,610	---	950	380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	1,630	---	960	390	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	1,240	---	900	290	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	1,120	8.1	740	260	85	---	0.6	1.3	0.2	---	---	---	---	0.2	---	84	---	---	<0.01
ACW #12D	ACW #12D	20-Aug-97	1,150	8.1	740	280	90	---	0.7	1.3	0.3	---	---	---	---	0.2	---	91	---	---	<0.01
ACW #12	ACW #12	23-Oct-97	1,810	7.5	850	380	120	---	1	1	0.34	---	---	---	---	0.2	---	150	---	---	<0.01
S98-0058	ACW #12	24-Feb-98	2,050	7.9	1,200	470	150	---	0.8	2.2	0.4	---	---	---	---	---	---	170	---	---	---
S98-0059	ACW #12D	24-Feb-98	2,090	7.9	1,220	490	160	---	0.9	2.1	0.5	---	---	---	---	---	---	170	---	---	---
S98-0188	ACW #12	01-Jun-98	2,000	7.5	1,500	---	---	---	---	---	0.41	---	---	---	---	---	---	210	---	---	---
S98-0189	ACW #12D	01-Jun-98	2,300	7.4	1,700	540	150	---	0.74	1.3	0.54	---	---	---	---	---	---	200	---	---	---
S98-0294	ACW #12	11-Aug-98	1,790	7.61	1,240	440	130	19.8	<2	1.3	1.4	---	---	---	---	---	---	180	---	---	---
S98-0295	ACW #12D	11-Aug-98	2,020	7.51	1,300	520	140	19.3	<1	1.1	<2.5	---	---	---	---	---	---	180	---	---	---
S98-0474	ACW #12	22-Oct-98	2,280	7.39	1,520	610	170	20.0	<2	0.99	0.44	---	---	---	---	0.27	---	210	---	---	<0.0025
S98-0475	ACW #12D	22-Oct-98	2,310	7.36	1,690	600	170	20.1	<2	0.90	0.51	---	---	---	---	0.26	---	200	---	---	<0.0025
S99-0083	ACW #12	23-Feb-99	2,020	7.68	1,240	500	120	12.3	<2	1.2	0.18	---	---	---	---	---	---	200	---	---	---
S99-0084	ACW #12D	23-Feb-99	2,050	7.67	1,280	480	140	12.8	<2	1.1	0.23	---	---	---	---	---	---	190	---	---	---
M99-0024	ACW #12	14-May-99	2,390	7.47	1,440	500	120	23.8	<2	0.86	0.14	---	---	---	---	0.28	---	210	---	---	0.0063
M99-0026	ACW #12D	14-May-99	2,350	7.42	1,410	590	150	23.9	<2	0.86	0.18	---	---	---	---	0.26	---	210	---	---	0.0044
M99-0087	ACW #12	11-Aug-99	2,650	7.35	1,750	750	160	21.7	<0.2	0.85	0.45	---	---	---	---	---	---	270	---	---	---
M99-0088	ACW #12D	11-Aug-99	2,630	7.33	1,880	810	160	21.1	<1	0.85	0.53	---	---	---	---	---	---	280	---	---	---
M99-0202	ACW #12	22-Oct-99	2,180	7.50	1,620	650	130	19.8	<2	0.98	0.41	---	0.034	0.0094	0.13	0.26	<0.002	220	<0.005	<0.005	<0.0025
M99-0204	ACW #12D	22-Oct-99	2,170	7.48	1,390	560	140	19.8	<2	0.95	0.32	---	0.031	0.0084	0.13	0.26	<0.002	230	<0.005	<0.005	<0.0025
M00-0024	ACW #12	22-Feb-00	1,950	7.38	1,260	680	130	16.4	<1.0	1.1	<0.5	---	---	---	---	---	---	210	---	---	---
M00-0098	ACW #12	11-May-00	1,590	7.88	989	470	100	18.5	0.47	1.2	0.15	---	---	---	---	---	---	150	---	---	---
M00-0197	ACW #12	07-Aug-00	1,800	7.63	1,270	460	110	25.4	0.47	1.1	0.087	---	---	---	---	---	---	140	---	---	---
M00-0240	ACW #12	03-Nov-00	2,520	7.5	1,780	890	130	19.2	<20	1.1	0.30	---	---	<0.1	0.14	0.29	<0.01	200	<0.01	---	0.0059
M01-0011	ACW #12	20-Feb-01	2,230	7.44 Hr	1,210	670	140	21.5	0.74	0.88	0.28	---	---	---	---	---	---	190	---	---	---
M01-0145	ACW #12	03-May-01	2,100	7.4	1,060	570	110 D2	22.2	1.4	1.00	<1	---	---	---	---	---	---	160	---	---	---
M01-0146	ACW #12D	03-May-01	2,120	7.44	1,150	510	110 D2	22.5	1.3	0.97	<1	---	---	---	---	---	---	160	---	---	---
M01-0405	ACW #12	01-Aug-01	2,080	7.34	1,290	490	120	24.6	<2	0.97	<1	---	---	---	---	---	---	180	---	---	---
M01-0486	ACW #12	25-Oct-01	1,890	7.43 H3	1,220	1400	110	19.7	<2	1.10	<0.5	---	<0.05	<0.1	0.11	0.25	<0.005	160	<0.01	<0.01	<0.005
ACW #13	ACW #13	20-Feb-97	681	---	440	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	643	---	460	57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	630	---	460	52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	654	8.3	440	55	96	---	0.4	1.3	0.99	---	---	---	---	0.2	---	39	---	---	<0.01
ACW #13	ACW #13	23-Oct-97	728	8.3	400	50	95	---	0.4	1.3	1	---	---	---	---	0.2	---	34	---	---	<0.01
S98-0060	ACW #13	24-Feb-98	727	8.4	450	59	100	---	0.5	1.6	1.2	---	---	---	---	---	---	31	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M00-0227	ACW #11	01-Nov-00	1.1	<0.05	560	0.37	0.00028	---	---	33	<0.1	26	<0.02	4,440	---	<0.1	190	190	<25	<25	6,600
M01-0135	ACW #11	01-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0476	ACW #11	23-Oct-01	1.4	0.53	840	0.38	0.00049	<0.01	<0.04	57	<0.1	31	<0.01	9,500	0.068	<0.1	160	160	<25	<25	9,700
ACW #12	ACW #12	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	0.5	---	31	0.05	---	---	---	23	---	18	---	100	---	<0.02	130	---	---	---	---
ACW #12D	ACW #12D	20-Aug-97	0.4	---	34	0.05	---	---	---	22	---	19	---	100	---	<0.02	120	---	---	---	---
ACW #12	ACW #12	23-Oct-97	0.2	---	54	0.03	---	---	---	13	---	20	---	120	---	<0.02	160	---	---	---	---
S98-0058	ACW #12	24-Feb-98	---	---	60	---	---	---	---	10	---	21	---	120	---	---	160	---	---	---	---
S98-0059	ACW #12D	24-Feb-98	---	---	60	---	---	---	---	10	---	21	---	120	---	---	150	---	---	---	---
S98-0188	ACW #12	01-Jun-98	---	---	73	---	---	---	---	9	---	23	---	130	---	---	150	150	---	---	---
S98-0189	ACW #12D	01-Jun-98	---	---	71	---	---	---	---	9	---	22	---	130	---	---	150	150	---	---	---
S98-0294	ACW #12	11-Aug-98	---	---	62	---	---	---	---	9.8	---	21	---	130	---	---	140	140	<25	<25	710
S98-0295	ACW #12D	11-Aug-98	---	---	61	---	---	---	---	9.7	---	24	---	130	---	---	160	160	<25	<25	700
S98-0474	ACW #12	22-Oct-98	0.17	---	80	0.032	---	---	---	10	---	23	---	140	---	<0.05	150	150	<25	<25	850
S98-0475	ACW #12D	22-Oct-98	0.17	---	72	0.029	---	---	---	10	---	24	---	130	---	<0.05	150	150	<25	<25	810
S99-0083	ACW #12	23-Feb-99	---	---	73	---	---	---	---	8.8	---	25	---	160	---	---	160	160	<25	<25	810
S99-0084	ACW #12D	23-Feb-99	---	---	68	---	---	---	---	8.5	---	26	---	160	---	---	160	160	<25	<25	750
M99-0024	ACW #12	14-May-99	0.16	---	74	0.026	---	---	---	9.5	---	23	---	150	---	<0.05	150	150	<25	<25	840
M99-0026	ACW #12D	14-May-99	0.16	---	73	0.025	---	---	---	9.0	---	26	---	140	---	<0.05	150	150	<25	<25	810
M99-0087	ACW #12	11-Aug-99	---	---	96	---	---	---	---	9.0	---	29	---	160	---	---	140	140	<25	<25	1100
M99-0088	ACW #12D	11-Aug-99	---	---	98	---	---	---	---	9.2	---	36	---	160	---	---	140	140	<25	<25	1100
M99-0202	ACW #12	22-Oct-99	0.14	<0.005	0.77	0.024	<0.0002	0.0043	<0.02	8.4	---	21	<0.005	140	0.0088	<0.05	140	140	<25	<25	860
M99-0204	ACW #12D	22-Oct-99	0.16	<0.005	79	0.024	<0.0002	<0.005	<0.02	8.7	---	20	<0.005	140	0.0086	<0.05	140	140	<25	<25	890
M00-0024	ACW #12	22-Feb-00	---	---	71	---	---	---	---	9.2	---	22	---	130	---	---	130	130	<25	<25	800
M00-0098	ACW #12	11-May-00	---	---	51	---	---	---	---	9.3	---	28	---	120	---	---	140	140	<25	<25	590
M00-0197	ACW #12	07-Aug-00	---	---	45	---	---	---	---	10	---	33	---	110	---	---	140	140	<25	<25	520
M00-0240	ACW #12	03-Nov-00	1.9	<0.05	71	0.053	<0.0002	---	---	16	<0.1	29	<0.02	280	---	<0.1	140	140	<25	<25	800
M01-0011	ACW #12	20-Feb-01	---	---	68	---	---	---	---	11	---	31	---	170	---	---	150	150	<25	<25	750
M01-0145	ACW #12	03-May-01	---	---	56	---	---	---	---	9.2	---	32	---	150	---	---	140	140	<25	<25	630
M01-0146	ACW #12D	03-May-01	---	---	57	---	---	---	---	8.9	---	31	---	150	---	---	150	150	<25	<25	630
M01-0405	ACW #12	01-Aug-01	---	---	64	---	---	---	---	9.6	---	28	---	140	---	---	140	140	<25	<25	710
M01-0486	ACW #12	25-Oct-01	0.29	<0.05	56	0.032	<0.0002	<0.01	<0.04	9.3	<0.1	34	<0.02	120	0.011	<0.1	140	140	<25	<25	630
ACW #13	ACW #13	20-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	0.3	---	14	0.02	---	---	---	10	---	20	---	79	---	<0.02	160	---	---	---	---
ACW #13	ACW #13	23-Oct-97	0.2	---	14	<0.01	---	---	---	15	---	21	---	84	---	<0.02	170	---	---	---	---
S98-0060	ACW #13	24-Feb-98	---	---	14	---	---	---	---	17	---	21	---	87	---	---	170	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
S98-0190	ACW #13	01-Jun-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0296	ACW #13	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0476	ACW #13	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0085	ACW #13	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0027	ACW #13	14-May-99	<2	<2	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0089	ACW #13	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0205	ACW #13	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0028	ACW #13	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0096	ACW #13	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0198	ACW #13	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0199	ACW #13D	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0242	ACW #13	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0013	ACW #13	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0159	ACW #13	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0406	ACW #13	01-Aug-01	<2	<2	<2 Jc	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0407	ACW #13D	01-Aug-01	<2	<2	<2 Jc	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0490	ACW #13	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Feb-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	0.88	1.1	0.52	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	22-Oct-97	<0.5	1.2	<0.5	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0173	ACW #14	24-Feb-98	<0.50	<0.50	<0.50	0.58J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0184	ACW #14	13-May-98	0.75	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0293	ACW #14	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0471	ACW #14	21-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0080	ACW #14	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0021	ACW #14	13-May-99	<2	<2	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0086	ACW #14	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0197	ACW #14	21-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0023	ACW #14	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0093	ACW #14	10-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0195	ACW #14	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0230	ACW #14	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0017	ACW #14	21-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0144	ACW #14	03-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0411	ACW #14	02-Aug-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0482	ACW #14	24-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0206	ACW #15	23-Oct-99	3.2	5.3	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0026	ACW #15	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0027	ACW #15D	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
S98-0190	ACW #13	01-Jun-98	700	8.0	450	---	---	---	---	---	1.2	---	---	---	---	---	---	40	---	---	---
S98-0296	ACW #13	11-Aug-98	679	7.93	467	48	110	19.7	<5	1.6	3.3	---	---	---	---	---	---	43	---	---	---
S98-0476	ACW #13	22-Oct-98	686	7.94	439	47	92	19.9	<5	1.3	1.3	---	---	---	---	0.23	---	48	---	---	<0.0025
S99-0085	ACW #13	23-Feb-99	792	8.18	493	74	93	12.6	0.3	1.5	0.74	---	---	---	---	---	---	44	---	---	---
M99-0027	ACW #13	14-May-99	693	7.96	403	45	96	24.1	0.4	1.3	1.4	---	---	---	---	0.25	---	46	---	---	0.0062
M99-0089	ACW #13	11-Aug-99	676	7.95	359	41	97	21.9	1.2	1.4	1.4	---	---	---	---	---	---	49	---	---	---
M99-0205	ACW #13	22-Oct-99	674	7.98	436	48	93	20.0	0.36	1.4	1.3	---	0.11	0.013	0.057	0.23	<0.002	49	0.0055	<0.005	<0.0025
M00-0028	ACW #13	23-Feb-00	697	7.84	479	53	98	16.9	<1.0	1.5	1.4	---	---	---	---	---	---	44	---	---	---
M00-0096	ACW #13	11-May-00	697	8.00	459	47	120	18.2	0.33	1.3	1.5	---	---	---	---	---	---	48	---	---	---
M00-0198	ACW #13	08-Aug-00	676	7.90	363	41	100	25.6	0.31	1.3	1.2	---	---	---	---	---	---	49	---	---	---
M00-0199	ACW #13D	08-Aug-00	662	7.94	381	44	95	25.7	0.30	1.4	1.2	---	---	---	---	---	---	50	---	---	---
M00-0242	ACW #13	06-Nov-00	1,330	7.7	947	360	110	16.7	<2	1.4	1.0	---	---	<0.1	0.061	0.26	<0.01	55	<0.01	---	<0.005
M01-0013	ACW #13	20-Feb-01	893	7.81 Hr	518	110	90	21.6	0.39	1.3	1.4	---	---	---	---	---	---	48	---	---	---
M01-0159	ACW #13	07-May-01	685	7.79 Hr	444	57	110 D2	26.6	0.34	1.3	1.5	---	---	---	---	---	---	47	---	---	---
M01-0406	ACW #13	01-Aug-01	694	7.73	402	42	98	23.3	<2	1.4	1.6	---	---	---	---	---	---	46	---	---	---
M01-0407	ACW #13D	01-Aug-01	690	7.73	439	45	98	23.6	<2	1.3	1.6	---	---	---	---	---	---	42	---	---	---
M01-0490	ACW #13	25-Oct-01	690	7.75	422	42	96	20.0	<1	1.4	1.5	---	<0.05	<0.1	0.046	0.22	<0.005	45	<0.01	<0.01	<0.005
ACW #14	ACW #14	20-Feb-97	830	---	570	86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	746	---	480	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	691	7.8	460	80	82	---	0.4	1.6	0.94	---	---	---	---	0.2	---	45	---	---	<0.01
ACW #14	ACW #14	22-Oct-97	747	8.1	440	71	95	---	0.5	1.5	0.9	---	---	---	---	0.2	---	46	---	---	<0.01
S98-0173	ACW #14	24-Feb-98	755	8.2	470	40	130	---	0.5	2	1.8	---	---	---	---	---	---	46	---	---	---
S98-0184	ACW #14	13-May-98	880	7.9	530	58	110	---	<2	1.7	1.7	---	---	---	---	---	---	47	---	---	---
S98-0293	ACW #14	11-Aug-98	730	7.76	496	160	110	19.2	<5	1.9	2.5	---	---	---	---	---	---	48	---	---	---
S98-0471	ACW #14	21-Oct-98	771	7.70	466	71	100	20.2	<2	1.9	1.7	---	---	---	---	0.25	---	52	---	---	0.0026
S99-0080	ACW #14	23-Feb-99	859	7.92	524	88	92	12.2	0.3	1.8	1.9	---	---	---	---	---	---	47	---	---	---
M99-0021	ACW #14	13-May-99	764	7.89	500	62	100	23.5	0.4	1.6	2.0	---	---	---	---	0.27	---	49	---	---	0.016
M99-0086	ACW #14	09-Aug-99	791	7.80	471	58	120	21.3	0.3	1.6	1.8	---	---	---	---	---	---	52	---	---	---
M99-0197	ACW #14	21-Oct-99	753	7.79	469	68	100	20.4	0.37	1.8	2.0	---	0.078	0.013	0.046	0.24	<0.002	48	<0.005	<0.005	<0.0025
M00-0023	ACW #14	22-Feb-00	738	7.65	499	53	97	16.1	<1.0	1.6	2.0	---	---	---	---	---	---	62	---	---	---
M00-0093	ACW #14	10-May-00	761	7.66	485	61	110	21.2	0.38	1.5	1.8	---	---	---	---	---	---	51	---	---	---
M00-0195	ACW #14	07-Aug-00	750	7.69	439	65	110	25.4	0.27	1.5	1.8	---	---	---	---	---	---	50	---	---	---
M00-0230	ACW #14	01-Nov-00	1,630	7.78	1,090	420	120	17.1	<2	1.6	1.4	---	---	<0.1	0.068	0.30	<0.01	65	<0.01	---	<0.005
M01-0017	ACW #14	21-Feb-01	883	7.78 Hr	517	100	100	21.7	<2	1.6	2.1	---	---	---	---	---	---	47	---	---	---
M01-0144	ACW #14	03-May-01	809	7.66	499	89	100 D2	22.7	1	1.6	3.7	---	---	---	---	---	---	54	---	---	---
M01-0411	ACW #14	02-Aug-01	771	7.90	476	70	110	22.8	0.42	1.6	1.9	---	---	---	---	---	---	45	---	---	---
M01-0482	ACW #14	24-Oct-01	761	7.63	449	71	100	20.0	<2	1.8	1.8	---	<0.05	<0.1	0.041	0.22	<0.005	46	<0.01	<0.01	<0.005
M99-0206	ACW #15	23-Oct-99	1,010	8.24	587	180	87	21.2	<2	1.6	0.81	---	0.79	0.0089	0.11	0.21	<0.002	66	0.022	<0.005	0.0039
M00-0026	ACW #15	23-Feb-00	665	7.71	402	42	84	16.6	<1.0	1.4	1.2	---	---	---	---	---	---	62	---	---	---
M00-0027	ACW #15D	23-Feb-00	660	7.71	394	42	92	16.6	<20	1.5	1.1	---	---	---	---	---	---	58	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
S98-0190	ACW #13	01-Jun-98	---	---	14	---	---	---	---	10	---	21	---	85	---	---	170	170	---	---	---
S98-0296	ACW #13	11-Aug-98	---	---	14	---	---	---	---	9.4	---	15	---	85	---	---	170	170	<25	<25	170
S98-0476	ACW #13	22-Oct-98	0.37	---	16	0.017	---	---	---	7.5	---	23	---	87	---	<0.05	170	170	<25	<25	190
S99-0085	ACW #13	23-Feb-99	---	---	15	---	---	---	---	7.0	---	23	---	110	---	---	180	180	<25	<25	170
M99-0027	ACW #13	14-May-99	0.17	---	15	0.0084	---	---	---	5.3	---	28	---	86	---	<0.05	170	170	<25	<25	180
M99-0089	ACW #13	11-Aug-99	---	---	16	---	---	---	---	5.0	---	26	---	86	---	---	170	170	<25	<25	190
M99-0205	ACW #13	22-Oct-99	0.23	<0.005	15	0.018	<0.0002	0.0044	<0.02	5.9	---	19	<0.005	89	<0.005	<0.05	160	160	<25	<25	190
M00-0028	ACW #13	23-Feb-00	---	---	14	---	---	---	---	6.3	---	14	---	82	---	---	160	160	<25	<25	170
M00-0096	ACW #13	11-May-00	---	---	16	---	---	---	---	6.6	---	30	---	88	---	---	170	170	<25	<25	190
M00-0198	ACW #13	08-Aug-00	---	---	15	---	---	---	---	5.8	---	<2.0	---	82	---	---	160	160	<25	<25	180
M00-0199	ACW #13D	08-Aug-00	---	---	16	---	---	---	---	6.0	---	37	---	84	---	---	160	160	<25	<25	180
M00-0242	ACW #13	06-Nov-00	0.34	<0.05	19	0.024	<0.0002	---	---	11	<0.1	29	<0.02	210	---	<0.1	170	170	<25	<25	220
M01-0013	ACW #13	20-Feb-01	---	---	16	---	---	---	---	7.5	---	34	---	130	---	---	160	160	<25	<25	190
M01-0159	ACW #13	07-May-01	---	---	6	---	---	---	---	4.6	---	33	---	88	---	---	180	180	<25	<25	180
M01-0406	ACW #13	01-Aug-01	---	---	16	---	---	---	---	6.1	---	29	---	86	---	---	170	170	<25	<25	180
M01-0407	ACW #13D	01-Aug-01	---	---	14	---	---	---	---	6	---	30	---	80	---	---	160	160	<25	<25	160
M01-0490	ACW #13	25-Oct-01	0.17	<0.05	15	0.02	<0.0002	<0.01	<0.04	6	<0.1	34	<0.02	78	<0.005	<0.1	170	170	<25	<25	170
ACW #14	ACW #14	20-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	0.5	---	15	0.03	---	---	---	5	---	20	---	81	---	0.03	150	---	---	---	---
ACW #14	ACW #14	22-Oct-97	0.3	---	16	0.01	---	---	---	5	---	20	---	81	---	<0.02	180	---	---	---	---
S98-0173	ACW #14	24-Feb-98	---	---	16	---	---	---	---	5	---	22	---	87	---	---	180	---	---	---	---
S98-0184	ACW #14	13-May-98	---	---	18	---	---	---	---	6	---	24	---	97	---	---	170	170	---	---	---
S98-0293	ACW #14	11-Aug-98	---	---	16	---	---	---	---	5.5	---	25	---	90	---	---	170	170	<25	<25	190
S98-0471	ACW #14	21-Oct-98	0.20	---	19	0.014	---	---	---	6.2	---	25	---	97	---	<0.05	170	170	<25	<25	210
S99-0080	ACW #14	23-Feb-99	---	---	17	---	---	---	---	6.0	---	25	---	110	---	---	180	180	<25	<25	190
M99-0021	ACW #14	13-May-99	0.17	---	18	0.011	---	---	---	5.7	---	28	---	95	---	<0.05	170	170	<25	<25	200
M99-0086	ACW #14	09-Aug-99	---	---	19	---	---	---	---	5.3	---	24	---	91	---	---	170	170	<25	<25	210
M99-0197	ACW #14	21-Oct-99	0.21	<0.005	18	0.012	<0.0002	<0.005	<0.02	5.8	---	21	<0.005	98	0.0062	<0.05	170	170	<25	<25	200
M00-0023	ACW #14	22-Feb-00	---	---	22	---	---	---	---	5.4	---	46	---	97	---	---	160	160	<25	<25	250
M00-0093	ACW #14	10-May-00	---	---	19	---	---	---	---	6.6	---	34	---	110	---	---	170	170	<25	<25	200
M00-0195	ACW #14	07-Aug-00	---	---	18	---	---	---	---	6.0	---	39	---	95	---	---	170	170	<25	<25	200
M00-0230	ACW #14	01-Nov-00	0.27	<0.05	23	0.037	<0.0002	---	---	14	<0.1	25	<0.02	300	---	<0.1	170	170	<25	<25	260
M01-0017	ACW #14	21-Feb-01	---	---	18	---	---	---	---	7.2	---	33	---	110	---	---	170	170	<25	<25	190
M01-0144	ACW #14	03-May-01	---	---	20	---	---	---	---	6.8	---	35	---	100	---	---	160	160	<25	<25	220
M01-0411	ACW #14	02-Aug-01	---	---	17	---	---	---	---	5.8	---	35	---	89	---	---	160	160	<25	<25	180
M01-0482	ACW #14	24-Oct-01	0.26	<0.05	16	0.012	<0.0002	<0.01	<0.04	6.0	<0.1	34	<0.02	82	0.0085	<0.1	160	160	<25	<25	190
M99-0206	ACW #15	23-Oct-99	0.75	<0.005	20	0.051	<0.0002	0.040	<0.02	28	---	30	<0.005	130	<0.000	0.096	130	130	<25	<25	250
M00-0026	ACW #15	23-Feb-00	---	---	15	---	---	---	---	5.7	---	27	---	81	---	---	170	170	<25	<25	220
M00-0027	ACW #15D	23-Feb-00	---	---	15	---	---	---	---	5.8	---	24	---	82	---	---	180	180	<25	<25	210

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M00-0095	ACW #15	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0200	ACW #15	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0236	ACW #15	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0014	ACW #15	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0015	ACW #15D	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0160	ACW #15	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0161	ACW #15D	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0410	ACW #15	02-Aug-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0489	ACW #15	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0241	RW #1	03-Nov-00	130	40	73	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0239	RW #2	03-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0485	RW #2	25-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	07-May-97	7.3	3.7	2.4	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	13	6.3	4.2	5.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	13	4.6	4.0	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0141	ENSR #1	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0470	ENSR #1	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0471	ENSR #1D	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	250	230	110	190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	130	160	77	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0495	ENSR #2	29-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	07-May-97	7.6	3.3	2.9	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	6.8	3.1	2.8	2.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	5	2.5	3	4.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	9.5	3.4	1.9	2.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	14	4.4	2.3	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M00-0095	ACW #15	11-May-00	654	7.95	431	49	91	18.4	0.34	1.4	0.86	---	---	---	---	---	---	47	---	---	---
M00-0200	ACW #15	08-Aug-00	605	7.94	340	35	84	25.6	0.25	1.4	0.91	---	---	---	---	---	---	45	---	---	---
M00-0236	ACW #15	02-Nov-00	1,380	7.8	876	360	100	18.4	<20	1.4	0.93	---	---	<0.1	0.064	0.27	<0.01	53	<0.01	---	<0.005
M01-0014	ACW #15	20-Feb-01	725	7.89 Hr	423	64	78	21.5	0.33	1.3	1	---	---	---	---	---	---	40	---	---	---
M01-0015	ACW #15D	20-Feb-01	727	7.87 Hr	413	65	81	21.7	0.34	1.3	1	---	---	---	---	---	---	38	---	---	---
M01-0160	ACW #15	07-May-01	629	7.81 Hr	416	52	84 D2	26.0	0.28	1.3	0.99	---	---	---	---	---	---	42	---	---	---
M01-0161	ACW #15D	07-May-01	628	7.84 Hr	396	46	80 D2	25.8	0.31	1.3	1	---	---	---	---	---	---	42	---	---	---
M01-0410	ACW #15	02-Aug-01	627	8.03	397	82	75	22.9	0.39	1.3	0.98	---	---	---	---	---	---	38	---	---	---
M01-0489	ACW #15	25-Oct-01	627	7.86	393	56	85	19.9	<1	1.4	1	---	<0.05	<0.1	0.042	0.22	<0.005	37	<0.01	<0.01	<0.005
M00-0241	RW #1	03-Nov-00	62,000	8.3	43,900	32,000	790	19.3	<200	6.0	0.10	---	---	0.82	0.47	2.4	<0.05	760	<0.05	---	<0.025
M00-0239	RW #2	03-Nov-00	7,340	6.8	5,660	2,800	240	19.3	<20	0.44	0.11	---	---	<0.1	0.18	<0.1	<0.01	610	0.012	---	<0.005
M01-0485	RW #2	25-Oct-01	8,380	---	5,050	2,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	07-May-97	8,620	---	5,200	3,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	13,800	---	7,600	4,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	12,000	---	6,700	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	12,400	---	7,590	4,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	14,700	---	8,450	5,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	12,400	---	6,290	4,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	12,800	---	7,420	6,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	10,200	---	6,690	3,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	10,600	---	7,140	4,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0141	ENSR #1	02-May-01	19,200	---	10,200	7,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0470	ENSR #1	23-Oct-01	15,300	---	8,050	5,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0471	ENSR #1D	23-Oct-01	11,400	---	6,070	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	50,000	---	27,000	17,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	57,900	---	30,000	17,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	38,000	---	21,000	13,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	44,800	---	30,000	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	49,100	---	31,200	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	28,900	---	16,600	9,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00	42,900	---	26,700	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0495	ENSR #2	29-Oct-01	42,000	---	25,100	13,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	07-May-97	2,050	---	1,500	650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	1,990	---	1,400	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	2,230	---	1,300	580	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	2,400	---	1,400	610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	2,200	---	1,300	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	2,260	---	1,580	590	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	2,240	---	1,290	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	2,490	---	1,370	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M00-0095	ACW #15	11-May-00	---	---	14	---	---	---	---	4.9	---	29	---	76	---	---	170	170	<25	<25	170
M00-0200	ACW #15	08-Aug-00	---	---	14	---	---	---	---	9.1	---	34	---	77	---	---	170	170	<25	<25	160
M00-0236	ACW #15	02-Nov-00	0.22	<0.05	18	0.026	<0.0002	---	---	16	<0.1	27	<0.02	250	---	<0.1	180	180	<25	<25	210
M01-0014	ACW #15	20-Feb-01	---	---	14	---	---	---	---	8.6	---	31	---	100	---	---	160	160	<25	<25	160
M01-0015	ACW #15D	20-Feb-01	---	---	13	---	---	---	---	7.5	---	31	---	96	---	---	180	180	<25	<25	150
M01-0160	ACW #15	07-May-01	---	---	14	---	---	---	---	5.8	---	32	---	80	---	---	180	180	<25	<25	160
M01-0161	ACW #15D	07-May-01	---	---	14	---	---	---	---	6.2	---	32	---	81	---	---	180	180	<25	<25	160
M01-0410	ACW #15	02-Aug-01	---	---	13	---	---	---	---	9.2	---	35	---	76	---	---	170	170	<25	<25	150
M01-0489	ACW #15	25-Oct-01	0.17	<0.05	13	0.0073	0.0003	<0.01	<0.04	72	<0.1	34	<0.02	72	<0.005	<0.1	170	170	<25	<25	150
M00-0241	RW #1	03-Nov-00	<0.5	<0.25	330	2.5	0.0029	---	---	100	<0.5	19	<0.1	22,000	---	<0.5	1,500	1,500	25	<25	3,200
M00-0239	RW #2	03-Nov-00	0.12	<0.05	190	0.83	<0.0002	---	---	15	<0.1	39	<0.02	680	---	<0.1	470	470	<25	<25	2,300
M01-0485	RW #2	25-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0141	ENSR #1	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0470	ENSR #1	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0471	ENSR #1D	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0495	ENSR #2	29-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0007	ENSR #3D	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0189	ENSR #3	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0138	ENSR #3	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0139	ENSR #3D	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0472	ENSR #3	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0186	Oxy Production Well	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0465	Oxy Production Well	20-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0082	Oxy Production Well	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0025	Oxy Production Well	13-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0093	Oxy Production Well	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0203	Oxy Production Well	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0025	Oxy Production Well	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0097	Oxy Production Well	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0196	Oxy Production Well	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0235	Oxy Production Well	02-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0016	Oxy Production Well	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0165	Oxy Production Well	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0408	Oxy Production Well	01-Aug-01	<2	<2	<2 Jc	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0488	Oxy Production Well	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	08-May-97	0.56	0.55	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	Production Well #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0496	Production Well #1	29-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0180	Production Well Dooms	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0464	Production Well Dooms	20-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0081	Production Well Dooms	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0018	Production Well Dooms	13-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M99-0007	ENSR #3D	11-May-99	2,480	---	1,380	610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0189	ENSR #3	20-Oct-99	2,390	---	1,630	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	2,390	---	1,560	590	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	2,360	---	1,580	710	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	2,410	---	1,580	710	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	2,410	---	1,870	640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0138	ENSR #3	02-May-01	2,480	---	1,240	610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0139	ENSR #3D	02-May-01	2,490	---	1,270	680	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0472	ENSR #3	23-Oct-01	2,480	---	1,300	620	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	802	8.1	480	120	68	---	0.7	1.3	0.9	---	---	---	---	---	---	60	---	---	---
S98-0186	Oxy Production Well	13-May-98	800	7.8	480	120	61	---	<2	1.1	0.93	---	---	---	---	---	---	66	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	762	7.78	604	120	58	20.2	<1	<0.4	.85/<0.0	3.7	---	---	---	---	---	72	---	---	---
S98-0465	Oxy Production Well	20-Oct-98	734	7.79	488	100	55	17.3	<2	1.1	0.76	---	---	---	---	---	---	---	---	---	---
S99-0082	Oxy Production Well	23-Feb-99	810	7.99	407	120	45	14.5	0.5	1.0	0.71	---	---	---	---	---	---	80	---	---	---
M99-0025	Oxy Production Well	13-May-99	808	7.91	468	120	59	23.6	0.6	0.96	0.27	---	---	---	---	0.20	---	74	---	---	<0.0025
M99-0093	*Oxy Production Well*	11-Aug-99	831	7.67	466	140	59	20.5	0.5	1.0	0.78	---	---	---	---	---	---	75	---	---	---
M99-0203	Oxy Production Well	22-Oct-99	788	7.86	490	130	56	19.2	0.53	1.0	0.41	---	<0.025	0.011	0.10	0.18	---	72	<0.005	<0.005	0.022
M00-0025	Oxy Production Well	23-Feb-00	630	7.85	392	38	77	17.6	<1.0	1.1	1.2	---	---	---	---	---	---	48	---	---	---
M00-0097	Oxy Production Well	11-May-00	835	7.96	504	120	63	19.6	0.50	0.99	0.84	---	---	---	---	---	---	71	---	---	---
M00-0196	Oxy Production Well	07-Aug-00	802	7.96	433	120	59	25.9	0.44	0.99	0.71	---	---	---	---	---	---	74	---	---	---
M00-0235	Oxy Production Well	02-Nov-00	662	7.8	475	120	60	18.6	<2	1.1	0.70	---	---	<0.1	0.095	0.21	<0.01	76	<0.01	---	<0.005
M01-0016	Oxy Production Well	20-Feb-01	805	7.83 Hr	442	130	52	22.6	0.57	0.99	0.70	---	---	---	---	---	---	67	---	---	---
M01-0165	Oxy Production Well	07-May-01	781	7.7 Hr	481	140	58 D2	24.9	0.61	1.0	0.82	---	---	---	---	---	---	69	---	---	---
M01-0408	Oxy Production Well	01-Aug-01	807	7.7	532	120	57	22.5	<2	1	1	---	---	---	---	---	---	68	---	---	---
M01-0488	Oxy Production Well	25-Oct-01	822	7.69	500	120	62	20.3	1.1	1.1	0.9	---	<0.05	<0.1	0.095	0.18	<0.005	67	<0.01	<0.01	<0.005
Production Well #1	Production Well #1	08-May-97	718	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	890	---	470	91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	850	---	500	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	860	---	520	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	994	---	659	56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	846	---	469	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	891	---	540	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	*Production Well #1*	27-Oct-00	850	---	603	94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0496	Production Well #1	29-Oct-01	890	---	523	65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	634	8.1	410	38	85	---	0.3	1.1	1.2	---	---	---	---	---	---	46	---	---	---
S98-0180	Production Well Dooms	13-May-98	640	7.8	410	30	81	---	<2	1.2	1.2	---	---	---	---	---	---	---	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	629	7.76	450	34	83	20.2	<1	<0.4	1.2/<0.05	5.3	---	---	---	---	---	53	---	---	---
S98-0464	Production Well Dooms	20-Oct-98	636	7.71	464	35	80	18.0	<2	1.0	1.2	---	---	---	---	0.22	---	52	---	---	<0.0025
S99-0081	Production Well Dooms	*23-Feb-99*	*627*	*7.86*	*364*	*31*	*73*	*14.9*	*0.3*	*0.89*	*0.89*	---	---	---	---		---	48	---	---	---
M99-0018	Production Well Dooms	13-May-99	630	7.76	381	34	80	23.6	0.4	0.84	0.62	---	---	---	---	0.24	---	51	---	---	<0.0025

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0007	ENSR #3D	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0189	ENSR #3	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0138	ENSR #3	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0139	ENSR #3D	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0472	ENSR #3	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	---	---	18	---	---	---	---	4	---	24	---	60	---	---	160	---	---	---	---
S98-0186	Oxy Production Well	13-May-98	---	---	20	---	---	---	---	5	---	27	---	65	---	---	150	150	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	---	---	20	---	---	---	---	5.0	---	28	---	67	---	---	150	150	<25	<25	260
S98-0465	Oxy Production Well	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	160	160	<25	<25	240
S99-0082	Oxy Production Well	23-Feb-99	---	---	24	---	---	---	---	6.2	---	24	---	82	---	---	160	160	<25	<25	300
M99-0025	Oxy Production Well	13-May-99	0.74	---	22	0.015	---	---	---	5.1	---	32	---	71	---	0.28	150	150	<25	<25	280
M99-0093	Oxy Production Well	11-Aug-99	---	---	22.0	---	---	---	---	4.7	---	27	---	72	---	---	140	140	<25	<25	280
M99-0203	Oxy Production Well	22-Oct-99	2.8	0.0057	21	0.078	<0.0002	0.0049	<0.02	4.8	---	21	<0.005	73	<0.005	0.50	140	140	<25	<25	270
M00-0025	Oxy Production Well	23-Feb-00	---	---	16	---	---	---	---	4.1	---	23	---	71	---	---	190	190	<25	<25	180
M00-0097	Oxy Production Well	11-May-00	---	---	21	---	---	---	---	5.0	---	35	---	72	---	---	150	150	<25	<25	260
M00-0196	Oxy Production Well	07-Aug-00	---	---	21	---	---	---	---	5.2	---	48	---	68	---	---	150	150	<25	<25	260
M00-0235	Oxy Production Well	02-Nov-00	0.93	<0.05	22	0.019	<0.0002	---	---	5.8	<0.1	31	<0.02	71	---	0.32	150	150	<25	<25	280
M01-0016	Oxy Production Well	20-Feb-01	---	---	20	---	---	---	---	5.8	---	33	---	68	---	---	140	140	<25	<25	250
M01-0165	Oxy Production Well	07-May-01	---	---	20	---	---	---	---	4.8	---	34	---	65	---	---	160	160	<25	<25	250
M01-0408	Oxy Production Well	01-Aug-01	---	---	21	---	---	---	---	4.3	---	32	---	66	---	---	150	150	<25	<25	260
M01-0488	Oxy Production Well	25-Oct-01	0.31	<0.05	20	0.0088	<0.0002	<0.01	<0.04	5.1	<0.1	47	<0.02	64	<0.005	0.21	140	140	<25	<25	250
Production Well #1	Production Well #1	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	Production Well #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0496	Production Well #1	29-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	---	---	16	---	---	---	---	4	---	25	---	64	---	---	200	---	---	---	---
S98-0180	Production Well Dooms	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	190	190	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	---	---	17	---	---	---	---	4.3	---	27	---	71	---	---	200	200	<25	<25	200
S98-0464	Production Well Dooms	20-Oct-98	0.060	---	17	<0.0025	---	---	---	4.1	---	29	---	69	---	<0.05	190	190	<25	<25	200
S99-0081	Production Well Dooms	23-Feb-99	---	---	16	---	---	---	---	4.1	---	26	---	72	---	---	190	190	<25	<25	190
M99-0018	Production Well Dooms	13-May-99	0.14	---	17	0.039	---	---	---	4.0	---	33	---	72	---	0.089	180	180	<25	<25	200

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0092	Production Well Dooms	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0193	Production Well Dooms	21-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0022	Production Well Dooms	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0094	Production Well Dooms	10-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0204	Production Well Dooms	14-Aug-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0233	Production Well Dooms	02-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0010	Production Well Dooms	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0143	Production Well Dooms	03-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0409	Production Well Dooms	01-Aug-01	<2	<2	<2 Jc	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0497	Production Well Dooms	29-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	07-May-97	38	0.51	22	8.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	7.9	<0.5	18	3.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12-May-98	62	1.6	21	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0140	PTP #1	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0473	PTP #1	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0066	Bailer Blank Pre Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0290	Bailer Blank Pre Sample	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0178	Bailer Blank-Middle Sample	12-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0061	Bailer Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	0.66	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	12	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0478	Bailer Blank Post Sample	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0078	Bailer Blank Before	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0087	Bailer Blank After Sampling	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0002	Bailer Blank Before Sampling	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0016	Bailer Blank Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	<2	<2	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0085	Bailer Blank Before Sampling	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0090	Bailer Blank After Sampling	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0182	Bailer Blank Before Sampling	18-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0198	Bailer Blank Middle	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M99-0092	Production Well Dooms	11-Aug-99	629	7.69	372	30	79	19.8	0.2	0.83	1.1	---	---	---	---	---	---	51	---	---	---
M99-0193	Production Well Dooms	21-Oct-99	617	7.74	400	32	74	19.2	0.29	0.86	1.1	---	0.042	0.0096	0.047	0.23	<0.002	51	<0.005	<0.005	0.0021
M00-0022	Production Well Dooms	23-Feb-00	814	7.92	506	130	54	17.4	0.58	1.1	0.72	---	---	---	---	---	---	68	---	---	---
M00-0094	Production Well Dooms	10-May-00	619	7.69	417	31	77	21.3	0.27	0.82	1.2	---	---	---	---	---	---	44	---	---	---
M00-0204	Production Well Dooms	14-Aug-00	597	7.72	400	28	75	27.2	<0.2	0.93	1.2	---	---	---	---	---	---	50	---	---	---
M00-0233	Production Well Dooms	02-Nov-00	530	7.8	375	32	79	18.4	<2	1.0	0.95	---	---	<0.1	0.045	0.25	<0.01	53	<0.01	---	0.037
M01-0010	Production Well Dooms	20-Feb-01	619	7.75 Hr	372	33	66	23.0	0.35	0.85	1.1	---	---	---	---	---	---	46	---	---	---
M01-0143	Production Well Dooms	03-May-01	615	7.75	419	30	74	22.7	0.51	0.91	1	---	---	---	---	---	---	49	---	---	---
M01-0409	Production Well Dooms	01-Aug-01	618	7.72	374	28	75	22.7	<2	0.92	1.2	---	---	---	---	---	---	44	---	---	---
M01-0497	Production Well Dooms	29-Oct-01	622	7.80	396	28	74	22.7	<2	0.96	1.2	---	<0.05	<0.1	0.037	0.21	<0.005	44	<0.01	<0.01	<0.005
PTP #1	PTP #1	07-May-97	2,420	---	1,500	490	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	2,250	---	1,400	470	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12-May-98	2,300	---	1,400	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	2,090	---	1,410	380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	2,250	---	1,240	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	2,300	---	1,630	460	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	2,210	---	1,400	510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	2,050	---	1,570	530	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0140	PTP #1	02-May-01	2,370	---	1,240	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0473	PTP #1	23-Oct-01	2,370	---	1,280	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	1.13	5.95	<25	<0.1	<0.1	17.8	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	0.49	---	---	<0.0025
S98-0066	Bailer Blank Pre Sample	24-Feb-98	3	5.7	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	9.6	5.8	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	---	---	---	---
S98-0290	Bailer Blank Pre Sample	10-Aug-98	4.45	5.08	30	<0.1	<2.0	18.8	<0.1	<0.10	<1.25	---	---	---	---	---	---	<0.25	---	---	---
S98-0178	Bailer Blank-Middle Sample	12-May-98	24	5.6	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	---	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	16.9	7.34	<25	<0.1	<0.1	21.0	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	3.2	---	---	<0.0025
S98-0061	Bailer Blank Post Sample	24-Feb-98	1	6.0	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	15	5.6	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	12	5.5	<20	<0.2	<1	---	<0.2	<0.1	0.09	---	---	---	---	---	---	<1	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	3.83	5.16	31	<0.1	<2.0	19.9	<0.1	<0.10	<2.5	---	---	---	---	---	---	<0.25	---	---	---
S98-0478	Bailer Blank Post Sample	22-Oct-98	1.22	5.77	<25	<0.1	<0.1	21.2	<0.2	<0.4	<0.05	---	---	---	---	0.01	---	<0.25	---	---	<0.0025
S99-0078	Bailer Blank Before	23-Feb-99	2.17	5.83	<25	<0.1	<0.1	14.3	<0.2	<0.4	0.09	---	---	---	---	---	---	<0.25	---	---	---
S99-0087	Bailer Blank After Sampling	23-Feb-99	1.35	5.78	<25	<0.1	<0.1	16.9	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.25	---	---	---
M99-0002	Bailer Blank Before Sampling	10-May-99	1.63	5.86	32	0.1	0.1	22.7	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025
M99-0016	Bailer Blank Middle	12-May-99	1.21	---	<25	<0.1	---	---	---	---	---	---	---	---	---		---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	1.52	5.86	<25	<0.1	<0.1	24.6	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025
M99-0085	Bailer Blank Before Sampling	09-Aug-99	898	7.57	565	88	190	19.1	0.5	1.6	<0.05		---	---	---	---	---	97	---	---	---
M99-0090	Bailer Blank After Sampling	11-Aug-99	580	8.41	266	48	1.0	21.0	<1	<0.4	0.74	---	---	---	---	---	---	0.68	---	---	---
M99-0182	Bailer Blank Before Sampling	18-Oct-99	4.00	6.04	<15	0.34	<0.5	20.2	<0.2	<0.4	0.064	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.39	<0.005	<0.005	<0.0025
M99-0198	Bailer Blank Middle	22-Oct-99	4.00	6.04	<15	0.31	<0.5	20.2	<0.2	<0.4	0.072	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.32	<0.005	<0.005	<0.0025

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0092	Production Well Dooms	11-Aug-99	---	---	17	---	---	---	---	3.8	---	27	---	73	---	---	190	190	<25	<25	200
M99-0193	Production Well Dooms	21-Oct-99	0.16	<0.001	18	0.0093	<0.0002	0.0048	<0.02	4.7	---	24	<0.005	77	0.0055	0.11	180	180	<25	<25	200
M00-0022	Production Well Dooms	23-Feb-00	---	---	20	---	---	---	---	4.9	---	12	---	69	---	---	140	140	<25	<25	250
M00-0094	Production Well Dooms	10-May-00	---	---	15	---	---	---	---	4.2	---	29	---	72	---	---	190	190	<25	<25	170
M00-0204	Production Well Dooms	14-Aug-00	---	---	16	---	---	---	---	70	---	30	---	4.2	---	---	180	180	<25	<25	190
M00-0233	Production Well Dooms	02-Nov-00	0.28	<0.05	18	0.013	<0.0002	---	---	5.0	<0.1	32	<0.02	79	---	0.19	190	190	<25	<25	210
M01-0010	Production Well Dooms	20-Feb-01	---	---	15	---	---	---	---	4.8	---	35	---	67	---	---	190	190	<25	<25	180
M01-0143	Production Well Dooms	03-May-01	---	---	16	---	---	---	---	3.8	---	34	---	73	---	---	180	180	<25	<25	190
M01-0409	Production Well Dooms	01-Aug-01	---	---	15	---	---	---	---	5.0	---	26	---	66	---	---	190	190	<25	<25	170
M01-0497	Production Well Dooms	29-Oct-01	0.10	<0.05	15	0.018	<0.0002	<0.01	<0.04	3.7	<0.1	38	<0.02	64	0.0084	<0.1	180	180	<25	<25	170
PTP #1	PTP #1	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0140	PTP #1	02-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0473	PTP #1	23-Oct-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	1.1	---	<0.05	<25	<25	<25	<25	1.2
S98-0066	Bailer Blank Pre Sample	24-Feb-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	---	---
S98-0290	Bailer Blank Pre Sample	10-Aug-98	---	---	<0.25	---	---	---	---	<0.25	---	<10	---	0.68	---	---	<25	<25	<25	<25	<1
S98-0178	Bailer Blank-Middle Sample	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	0.30	---	<0.05	<25	<25	<25	<25	7.9
S98-0061	Bailer Blank Post Sample	24-Feb-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	---	---	<1	---	---	---	---	<1	---	0.16	---	---	---	---	<5	<5	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	---	---	<0.25	---	---	---	---	<0.25	---	<10	---	<0.25	---	---	<25	<25	<25	<25	<1
S98-0478	Bailer Blank Post Sample	22-Oct-98	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	<0.25	---	<0.05	<25	<25	<25	<25	<0.5
S99-0078	Bailer Blank Before	23-Feb-99	---	---	<0.25	---	---	---	---	<1	---	<1	---	0.27	---	---	<25	<25	<25	<25	<1
S99-0087	Bailer Blank After Sampling	23-Feb-99	---	---	<0.25	---	---	---	---	<1	---	<1	---	<0.25	---	---	<25	<25	<25	<25	<1
M99-0002	Bailer Blank Before Sampling	10-May-99	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	<0.25	---	<0.05	<25	<25	<25	<25	<1
M99-0016	Bailer Blank Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	0.41	---	<0.05	<25	<25	<25	<25	<1
M99-0085	Bailer Blank Before Sampling	09-Aug-99	---	---	22	---	---	---	---	5.2	---	21	---	80	---	---	110	110	<25	<25	330
M99-0090	Bailer Blank After Sampling	11-Aug-99	---	---	<0.25	---	---	---	---	1.4	---	10	---	140	---	---	220	220	2	<25	2.6
M99-0182	Bailer Blank Before Sampling	18-Oct-99	0.060	<0.005	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M99-0198	Bailer Blank Middle	22-Oct-99	<0.05	<0.005	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0208	Bailer Blank After Sampling	23-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0021	Bailer Blank Before Sampling	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0030	Bailer Blank After Sampling	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0076	Bailer Blank Before Sampling	08-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0091	Bailer Blank Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0194	Bailer Blank Before Sampling	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0201	Bailer Blank After Sampling	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0214	Bailer Blank Before Sampling	26-Oct-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0245	Bailer Blank After Sampling	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0012	Bailer Blank Before Sampling	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0018	Bailer Blank After Sampling	21-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0131	Bailer Blank Before Sampling	02-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0155	Bailer Blank Middle of Sampling Wells	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0163	Bailer After Sampling Wells	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0404	Bailer Blank Before Sampling	01-Aug-01	<2	<2	<2Jc	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0412	Bailer After Sampling Wells	02-Aug-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0466	Bailer Blank Before Sampling	22-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0479	Bailer Blank Middle of Sampling Wells	24-Oct-01	<2	<2	<2	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0493	Bailer After Sampling Wells	29-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0477	EMP #3 Post Purge	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0179	EMP #3 Pump Blank Middle Sample	12-May-98	30	20	6.5	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sample	21-Oct-98	2	3	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	3.0	3.4	1.4	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	<0.50	0.83	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	<0.50	1.1	0.74	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	6.7	1.7	<0.50	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0086	EMP #3 Pump Blank After	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0003	EMP #3 Before Purging Wells	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0015	EMP #3 Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	<2	3	<2	<2	---	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0091	EMP #3 Pump Blank After	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	14	31	2.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M99-0208	Bailer Blank After Sampling	23-Oct-99	3.75	6.03	<15	0.32	<0.5	22.4	<0.2	<0.4	0.088	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.32	<0.005	<0.005	<0.0025
M00-0021	Bailer Blank Before Sampling	22-Feb-00	3	5.88	<15	<0.1	<0.1	15.9	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0030	Bailer Blank After Sampling	23-Feb-00	3	5.88	<15	<0.1	<0.1	17.3	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0076	Bailer Blank Before Sampling	08-May-00	4	5.52	21	<0.1	<0.1	21.3	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0091	Bailer Blank Middle of Sampling	10-May-00	2	---	19	<0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	41	7.13	42	6.1	1.4	18.5	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0194	Bailer Blank Before Sampling	07-Aug-00	8.0	6.15	<15	<0.1	<0.1	25.6	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---
M00-0201	Bailer Blank After Sampling	08-Aug-00	4.0	5.63	<15	<0.1	<0.1	25.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---
M00-0214	Bailer Blank Before Sampling	26-Oct-00	13	5.22	<15	3.3	<0.1	16.2	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.12	<0.01	<0.5	<0.01	---	0.088
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	11.4	5.09	<15	3.3	<0.1	15.1	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.14	<0.01	0.22	<0.01	---	0.093
M00-0245	Bailer Blank After Sampling	06-Nov-00	13.40	5.3	55	3.3	<0.1	16.9	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.13	<0.01	<0.5	<0.01	---	0.092
M01-0012	Bailer Blank Before Sampling	20-Feb-01	1	6.28 Hr	<15	<0.1	<0.1	21.6	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M01-0018	Bailer Blank After Sampling	21-Feb-01	2	6.18 Hr	<15	<0.1	<0.1	21.8	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M01-0131	Bailer Blank Before Sampling	02-May-01	1	7.69	<15	<0.1	36	18.6	<0.2	<0.4	<0.1	---	---	---	---	---	---	0.91	---	---	---
M01-0155	Bailer Blank Middle of Sampling Wells	06-May-01	198	---	115	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0163	Bailer After Sampling Wells	07-May-01	578	8.24 Hr	327	65	<2	25.4	0.17	<0.4	0.62	---	---	---	---	---	---	<0.5	---	---	---
M01-0404	Bailer Blank Before Sampling	01-Aug-01	1.82	6.21	<15	1.6	<1	22.5	<2	<0.4	<1	---	---	---	---	---	---	<0.5	---	---	---
M01-0412	Bailer After Sampling Wells	02-Aug-01	1.66	6.54	<15	<0.1	<0.1	23.1	<0.2	<0.4	<0.05	---	---	---	---	---	---	0.56	---	---	---
M01-0466	Bailer Blank Before Sampling	22-Oct-01	1.67	5.84	<15	0.16	<0.1	20.5	<0.2	<0.4	<0.1	---	<0.05	<0.1	<0.005	<0.1	<0.005	<0.5	<0.01	<0.01	<0.005
M01-0479	Bailer Blank Middle of Sampling Wells	24-Oct-01	1.52	6.47 H3	<15	0.23	<0.1	20.1	<0.2	<0.4	<0.05	---	<0.05	<0.1	<0.005	<0.1	<0.005	<0.5	<0.01	<0.01	<0.005
M01-0493	Bailer After Sampling Wells	29-Oct-01	1.32	6.39 H3	<15	<0.1	<0.1	23.3	<0.2	<0.4	<0.05	---	<0.05	<0.1	<0.005	<0.1	<0.005	<0.5	<0.01	<0.01	<0.005
S98-0477	EMP #3 Post Purge	22-Oct-98	662	8.26	424	100	50	20.1	<5	1.6	<0.05	---	---	---	---	0.19	---	45	---	---	<0.0025
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	631	8.26	369	100	50	17.1	<2	1.6	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025
S98-0179	EMP #3 Pump Blank Middle Sample	12-May-98	720	7.9	390	87	57	---	<2	1.7	<0.05	---	---	---	---	---	---	50	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sample	21-Oct-98	649	8.23	373	110	48	19.8	2.0	1.5	<0.05	---	---	---	---	0.19	---	40	---	---	<0.0025
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	738	8.2	420	98	60	---	0.7	2	<0.2	---	---	---	---	---	---	51	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	670	8.1	400	88	57	---	0.63	1.8	0.05	---	---	---	---	---	---	48	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	690	8.0	420	91	53	---	0.64	1.7	<0.05	---	---	---	---	---	---	50	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	641	8.13	392	95	54	19.8	<5	1.8	<2.5	---	---	---	---	---	---	47	---	---	---
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	746	8.2	432	99	62.2	---	0.7	1.9	<0.2	---	---	---	---	---	---	52	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	970	7.7	630	98	200	---	<2	1.8	<0.05	---	---	---	---	---	---	91	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	676	7.84	458	96	57	19.9	<2.5	1.9	<1.25	---	---	---	---	---	---	47Jm	---	---	---
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	1170	8.44	681	210	42	14.1	<2	1.7	<0.05	---	---	---	---	---	---	52	---	---	---
S99-0086	EMP #3 Pump Blank After	23-Feb-99	1610	8.66	981	350	45	13.5	<2	1.8	<0.05	---	---	---	---	---	---	51	---	---	---
M99-0003	EMP #3 Before Purging Wells	10-May-99	1120	7.86	646	210	51	22.3	0.6	1.5	<0.05	---	---	---	---	0.22	---	50	---	---	<0.0025
M99-0015	EMP #3 Middle	12-May-99	609	---	379	73	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	599	8.27	356	66	53	24.0	0.5	1.8	<0.05	---	---	---	---	0.21	---	44	---	---	0.0060
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	578	8.30	305	49	1.1	20.1	<0.2	<0.4	0.70	---	---	---	---	---	---	0.79	---	---	---
M99-0091	EMP #3 Pump Blank After	11-Aug-99	588	8.32	305	70	53	22.1	2.1	1.7	<0.05	---	---	---	---	---	---	45	---	---	---
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	1070	7.37	673	140	200	20.7	0.65	1.7	0.29	---	0.043	0.0076	0.053	0.22	<0.002	88	<0.005	<0.005	0.0035

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0208	Bailer Blank After Sampling	23-Oct-99	<0.05	<0.005	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M00-0021	Bailer Blank Before Sampling	22-Feb-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0030	Bailer Blank After Sampling	23-Feb-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0076	Bailer Blank Before Sampling	08-May-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0091	Bailer Blank Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0194	Bailer Blank Before Sampling	07-Aug-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0201	Bailer Blank After Sampling	08-Aug-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0214	Bailer Blank Before Sampling	26-Oct-00	<0.1	<0.05	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.3	<0.02	1.9	---	<0.1	<25	<25	<25	<25	<2
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	0.19	<0.05	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.1	<0.02	2.3	---	<0.1	<25	<25	<25	<25	<2
M00-0245	Bailer Blank After Sampling	06-Nov-00	<0.1	<0.05	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.3	<0.02	2.4	---	<0.1	<25	<25	<25	<25	<2
M01-0012	Bailer Blank Before Sampling	20-Feb-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M01-0018	Bailer Blank After Sampling	21-Feb-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M01-0131	Bailer Blank Before Sampling	02-May-01	---	---	0.49	---	---	---	---	0.52	---	<1	---	2.4	---	---	<25	<25	<25	<25	4.3
M01-0155	Bailer Blank Middle of Sampling Wells	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0163	Bailer After Sampling Wells	07-May-01	---	---	<0.5	---	---	---	---	<2	---	11	---	140.0	---	---	240	240	<25	<25	<2
M01-0404	Bailer Blank Before Sampling	01-Aug-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M01-0412	Bailer After Sampling Wells	02-Aug-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	6.7	---	---	<25	<25	<25	<25	<2
M01-0466	Bailer Blank Before Sampling	22-Oct-01	<0.1	<0.05	<0.5	<0.005	<0.0002	<0.01	<0.04	<2	<0.1	<1	<0.02	<0.5	<0.005	<0.1	<25	<25	<25	<25	<2
M01-0479	Bailer Blank Middle of Sampling Wells	24-Oct-01	<0.1	<0.05	<0.5	0.0067	<0.0002	<0.01	<0.04	<2	<0.1	<1	<0.02	1.5	<0.005	<0.1	<25	<25	<25	<25	<5
M01-0493	Bailer After Sampling Wells	29-Oct-01	<0.1	<0.05	<0.5	<0.005	<0.0002	<0.01	<0.04	<2	<0.1	<1	<0.02	1.6	<0.005	<0.1	<25	<25	<25	<25	<5
S98-0477	EMP #3 Post Purge	22-Oct-98	0.77	---	13	0.050	---	---	---	4.0	---	15	---	75	---	<0.05	130	130	<25	<25	160
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	13	---	<0.25	---	<0.05	110	110	<25	<25	<1
S98-0179	EMP #3 Pump Blank Middle Sample	12-May-98	---	---	13	---	---	---	---	4	---	18	---	75	---	---	150	150	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sample	21-Oct-98	0.77	---	12	0.047	---	---	---	4.0	---	14	---	95	---	<0.05	130	130	<25	<25	150
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	---	---	14	---	---	---	---	4	---	14	---	72	---	---	160	---	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	---	---	12	---	---	---	---	4	---	17	---	72	---	---	140	140	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	---	---	13	---	---	---	---	4	---	16	---	76	---	---	150	150	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	---	---	12	---	---	---	---	4.1	---	17	---	78	---	---	130	130	<25	<25	170
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	---	---	14	---	---	---	---	4	---	13	---	75	---	---	161.8	---	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	---	---	23	---	---	---	---	5	---	13	---	74	---	---	110	110	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	---	---	12	---	---	---	---	4.2	---	19	---	79	---	---	140	140	<25	<25	170
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	---	---	14	---	---	---	---	4.2	---	18	---	190	---	---	180	170	6	<25	180
S99-0086	EMP #3 Pump Blank After	23-Feb-99	---	---	14	---	---	---	---	4.7	---	18	---	270	---	---	180	160	16	<25	190
M99-0003	EMP #3 Before Purging Wells	10-May-99	0.45	---	14	0.040	---	---	---	4.3	---	22	---	170	---	0.15	160	160	<25	<25	180
M99-0015	EMP #3 Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	0.76	---	11	0.054	---	---	---	4.2	---	19	---	65	---	<0.05	150	150	<25	<25	150
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	---	---	<0.25	---	---	---	---	<1	---	11	---	140	---	---	220	220	2	<25	2.8
M99-0091	EMP #3 Pump Blank After	11-Aug-99	---	---	11	---	---	---	---	3.9	---	18	---	77	---	---	130	130	<25	<25	160
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	0.69	<0.005	21	0.051	<0.0002	0.0062	<0.02	5.6	---	25	<0.005	92	<0.005	0.11	96	96	<25	<25	310

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0200	EMP #3 Middle	22-Oct-99	2.6	7.7	2.6	4.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0207	EMP #3 After Purging	23-Oct-99	<2	7.4	2.6	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0020	EMP #3 Pump Blank Before Purging	22-Feb-00	<2	<2	<2	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0029	EMP #3 After Purging Wells	23-Feb-00	<2	<2	<2	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0075	EMP #3 Before Purging Wells	08-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0090	EMP #3 Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Sampling	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	<2	<2	<2	6.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0244	EMP #3 After Purging Wells	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0009	EMP # 3 Pump Blank Before Sampling	20-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0019	EMP #3 After Purging Wells	21-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0130	EMP #3 Pump Blank Before Purging Wells	02-May-01	<2	<2	<2	3.8	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0154	EMP #3 Pump Blank Middle of Purging Wells	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0162	EMP #3 After Purging Wells	07-May-01	<2	<2	<2	5.2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0403	EMP #3 Before Purging Wells	01-Aug-01	<2	<2	<2Jc	4.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0413	EMP #3 After Purging Wells	02-Aug-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0465	EMP #3 Pump Blank Before Purging Wells	22-Oct-01	<2	<2	<2	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0478	EMP #3 Middle of Purging Wells	24-Oct-01	<2	<2	<2	3.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0492	EMP #3 After Purging Wells	29-Oct-01	2.2	<2	<2	6.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0064	Field Blank	24-Feb-98	<0.50	0.93	<0.50	2.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0171	Field Blank	12-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0223	Field Blank	01-Jun-98	17	100	<0.50	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0291	Field Blank	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0480	Field Blank	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0077	Field Blank	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0001	Field Blank	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0209	Field Blank	23-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0031	Field Blank	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0104	Field Blank	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0203	Field Blank	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0246	Field Blank	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0020	Field Blank	21-Feb-01	<2	<2	<2	<4	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0164	Field Blank	07-May-01	<2	<2	<2	<2	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0414	Field Blank	02-Aug-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0491	Field Blank	25-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0494	Field Blank	29-Oct-01	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
M99-0200	EMP #3 Middle	22-Oct-99	624	8.22	397	110	50	19.4	0.60	1.6	<0.05	---	0.033	0.0066	0.075	0.20	<0.002	44	<0.005	<0.005	<0.0025
M99-0207	EMP #3 After Purging	23-Oct-99	640	8.29	367	96	50	21.4	0.58	1.6	<0.05	---	0.059	0.0062	0.092	0.20	<0.002	50	<0.005	<0.005	<0.0025
M00-0020	EMP #3 Pump Blank Before Purging	22-Feb-00	683	6.60	490	86	54	16.6	<1	1.8	<0.5	---	---	---	---	---	---	47	---	---	---
M00-0029	EMP #3 After Purging Wells	23-Feb-00	681	6.99	460	82	52	17.0	0.63	1.8	<0.5	---	---	---	---	---	---	46	---	---	---
M00-0075	EMP #3 Before Purging Wells	08-May-00	653	7.16	482	83	51	21.8	0.46	1.7	<1	---	---	---	---	---	---	46	---	---	---
M00-0090	EMP #3 Middle of Sampling	10-May-00	648	---	373	98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Sampling	12-May-00	670	8.22	405	91	52	18.5	0.54	1.6	<0.1	---	---	---	---	---	---	49	---	---	---
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	552	7.49	369	81	38	25.8	0.29	1.1	<0.05	---	---	---	---	---	---	30	---	---	---
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	600	8.18	317	58	45	25.9	0.50	1.7	0.21	---	---	---	---	---	---	44	---	---	---
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	3,030	7.11	1,920	1,300	80	14.5	<2	1.7	<1	---	---	<0.1	0.13	0.23	<0.01	62	<0.01	---	0.0055
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	9,200	8.03	6,080	3,300	240	14.4	<2	1.9	<1	---	---	<0.1	0.25	0.31	<0.01	120	<0.01	---	0.0061
M00-0244	EMP #3 After Purging Wells	06-Nov-00	4,400	8.1	3,500	2,100	150	16.7	<4	1.9	<2	---	---	<0.1	0.14	0.28	<0.01	72	<0.01	---	<0.005
M01-0009	EMP # 3 Pump Blank Before Sampling	20-Feb-01	1,380	8.17 Hr	736	340	52	21.5	0.56	1.7	<0.1	---	---	---	---	---	---	36	---	---	---
M01-0019	EMP #3 After Purging Wells	21-Feb-01	1,120	8.24 Hr	592	240	52	21.9	0.53	1.8	0.19	---	---	---	---	---	---	36	---	---	---
M01-0130	EMP #3 Pump Blank Before Purging Wells	02-May-01	565	7.67	321	67	<2	18.9	<1	0.99	<0.5	---	---	---	---	---	---	34	---	---	---
M01-0154	EMP #3 Pump Blank Middle of Purging Wells	06-May-01	733	---	426	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0162	EMP #3 After Purging Wells	07-May-01	724	8.19 Hr	426	130	62 D2	25.6	0.60	1.8	<1	---	---	---	---	---	---	34	---	---	---
M01-0403	EMP #3 Before Purging Wells	01-Aug-01	622	7.4	418	71	35	23.3	<2	1.7	<1	---	---	---	---	---	---	35	---	---	---
M01-0413	EMP #3 After Purging Wells	02-Aug-01	516	8.2	303	74	52	22.9	0.48	1.7	<0.05	---	---	---	---	---	---	34	---	---	---
M01-0465	EMP #3 Pump Blank Before Purging Wells	22-Oct-01	501	7.27	375	66	24	21.5	<2	1.8	<1	---	<0.05	<0.1	0.045	0.20	<0.005	32	<0.01	<0.01	<0.005
M01-0478	EMP #3 Middle of Purging Wells	24-Oct-01	565	8.22 H3	310	76	44	20.3	<2	1.7	<0.5	---	0.067	<0.1	0.059	0.19	<0.005	40	<0.01	<0.01	<0.005
M01-0492	EMP #3 After Purging Wells	29-Oct-01	572	8.01 H3	343	59	47	23.3	<2	1.8	<0.5	---	0.400	<0.1	0.051	0.23	<0.005	38	<0.01	<0.01	<0.005
S98-0064	Field Blank	24-Feb-98	2	5.8	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---
S98-0171	Field Blank	12-May-98	54	5.7	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---
S98-0223	Field Blank	01-Jun-98	3.2	6.0	<20	0.33	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---
S98-0291	Field Blank	10-Aug-98	20.7	9.56	31	<0.1	<2.0	19.3	<0.1	<0.10	<1.25	---	---	---	---	---	---	3.6	---	---	---
S98-0480	Field Blank	22-Oct-98	1.23	5.67	59	<0.1	<0.1	21.8	<0.2	<0.4	<0.05	---	---	---	---	0.016	---	<0.25	---	---	<0.0025
S99-0077	Field Blank	23-Feb-99	2.46	5.35	<25	<0.1	<0.1	14.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.25	---	---	---
M99-0001	Field Blank	10-May-99	1.32	6.18	41	<0.1	<0.1	21.5	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025
M99-0209	Field Blank	23-Oct-99	3.70	5.94	<15	0.32	<0.5	21.7	<0.2	<0.4	0.080	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.33	<0.005	<0.005	<0.0025
M00-0031	Field Blank	23-Feb-00	1	6.04	<15	<0.1	<0.1	17.4	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0104	Field Blank	12-May-00	6	5.47	17	<0.1	<0.1	18.6	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M00-0203	Field Blank	08-Aug-00	2.0	6.20	<15	<0.1	<0.1	25.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---
M00-0246	Field Blank	06-Nov-00	11.0	5.4	<15	3.3	<0.1	17.2	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.12	<0.01	<0.5	<0.01	---	0.10
M01-0020	Field Blank	21-Feb-01	1.0	6.14 Hr	<15	<0.1	<0.1	22.0	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---
M01-0164	Field Blank	07-May-01	577.0	8.19 Hr	342	84	<2	25.2	0.17	<0.4	0.630	---	---	---	---	---	---	<0.5	---	---	---
M01-0414	Field Blank	02-Aug-01	33.2	6.04	28	6.5	1	22.8	0.13	<0.4	0.62	---	---	---	---	---	---	0.51	---	---	---
M01-0491	Field Blank	25-Oct-01	1.3	6.38	<15	<0.1	<0.1	19.6	<0.2	<0.4	<0.05	---	<0.05	<0.1	<0.005	<0.1	<0.005	<0.5	<0.01	<0.01	<0.005
M01-0494	Field Blank	29-Oct-01	1.73	6.25 H3	<15	<0.1	<0.1	22.8	<0.2	<0.4	<0.05	---	<0.05	<0.1	<0.005	<0.1	<0.005	<0.5	<0.01	<0.01	<0.005

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0200	EMP #3 Middle	22-Oct-99	0.72	<0.005	12	0.051	<0.0002	0.0069	<0.02	4.3	---	17	<0.005	80	<0.005	<0.05	120	120	<25	<25	160
M99-0207	EMP #3 After Purging	23-Oct-99	0.89	<0.005	13	0.058	<0.0002	0.0083	<0.02	4.4	---	20	<0.005	80	<0.005	<0.05	130	130	<25	<25	180
M00-0020	EMP #3 Pump Blank Before Purging	22-Feb-00	---	---	12	---	---	---	---	5.0	---	19	---	74	---	---	87	87	<25	<25	170
M00-0029	EMP #3 After Purging Wells	23-Feb-00	---	---	12	---	---	---	---	5.2	---	13	---	76	---	---	95	95	<25	<25	160
M00-0075	EMP #3 Before Purging Wells	08-May-00	---	---	12	---	---	---	---	4.7	---	25	---	73	---	---	130	130	<25	<25	160
M00-0090	EMP #3 Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Sampling	12-May-00	---	---	13	---	---	---	---	4.4	---	22	---	72	---	---	150	150	<25	<25	170
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	---	---	9.5	---	---	---	---	3.1	---	21	---	78	---	---	140	140	<25	<25	110
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	---	---	12	---	---	---	---	4.1	---	21	---	72	---	---	130	130	<25	<25	150
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	2.9	<0.05	20	0.13	<0.0002	---	---	19	<0.1	26	<0.02	540	---	<0.1	140	140	<25	<25	240
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	3.0	<0.05	45	0.29	<0.0002	---	---	65	<0.1	19	<0.02	800	---	<0.1	140	140	<25	<25	480
M00-0244	EMP #3 After Purging Wells	06-Nov-00	1.2	<0.05	27	0.15	<0.0002	---	---	40	<0.1	23	<0.02	600	---	<0.1	150	150	<25	<25	290
M01-0009	EMP # 3 Pump Blank Before Sampling	20-Feb-01	---	---	12	---	---	---	---	11	---	23	---	220	---	---	140	140	<25	<25	140
M01-0019	EMP #3 After Purging Wells	21-Feb-01	---	---	12	---	---	---	---	9.1	---	22	---	180	---	---	150	150	<25	<25	140
M01-0130	EMP #3 Pump Blank Before Purging Wells	02-May-01	---	---	13	---	---	---	---	3.2	---	22	---	76	---	---	160	160	<25	<25	140
M01-0154	EMP #3 Pump Blank Middle of Purging Wells	06-May-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M01-0162	EMP #3 After Purging Wells	07-May-01	---	---	11	---	---	---	---	5.5	---	21	---	93	---	---	150	150	<25	<25	130
M01-0403	EMP #3 Before Purging Wells	01-Aug-01	---	---	9.7	---	---	---	---	5.3	---	26	---	75	---	---	150	150	<25	<25	130
M01-0413	EMP #3 After Purging Wells	02-Aug-01	---	---	8.3	---	---	---	---	4.7	---	25	---	59	---	---	130	130	<25	<25	120
M01-0465	EMP #3 Pump Blank Before Purging Wells	22-Oct-01	1.4	<0.05	7.9	0.056	<0.0002	<0.01	<0.04	4.1	<0.1	25	<0.02	58	<0.005	<0.1	130	130	<25	<25	110
M01-0478	EMP #3 Middle of Purging Wells	24-Oct-01	0.64	<0.05	9.8	0.043	<0.0002	<0.01	<0.04	4.0	<0.1	25	<0.02	61	<0.005	<0.1	140	140	<25	<25	140
M01-0492	EMP #3 After Purging Wells	29-Oct-01	0.41	<0.05	9.8	0.032	<0.0002	0.01	<0.04	3.7	<0.1	25	<0.02	59	<0.005	<0.1	140	140	<25	<25	140
S98-0064	Field Blank	24-Feb-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0171	Field Blank	12-May-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0223	Field Blank	01-Jun-98	---	---	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0291	Field Blank	10-Aug-98	---	---	<0.25	---	---	---	---	<0.25	---	<10	---	<0.25	---	---	<25	<25	<25	<25	9.0
S98-0480	Field Blank	22-Oct-98	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	<0.25	---	<0.05	<25	<25	<25	<25	<0.5
S99-0077	Field Blank	23-Feb-99	---	---	<0.25	---	---	---	---	<1	---	<1	---	<0.25	---	---	<25	<25	<25	<25	<1
M99-0001	Field Blank	10-May-99	<0.05	---	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	<0.25	---	<0.05	<25	<25	<25	<25	<1
M99-0209	Field Blank	23-Oct-99	<0.05	0.0062	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M00-0031	Field Blank	23-Feb-00	---	---	<0.5	---	---	---	---	<2.	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0104	Field Blank	12-May-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0203	Field Blank	08-Aug-00	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0246	Field Blank	06-Nov-00	<0.1	<0.05	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.2	<0.02	1.5	---	<0.1	<25	<25	<25	<25	<2
M01-0020	Field Blank	21-Feb-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M01-0164	Field Blank	07-May-01	---	---	<0.5	---	---	---	---	<2	---	11	---	140.0	---	---	240	240	<25	<25	<2
M01-0414	Field Blank	02-Aug-01	---	---	<0.5	---	---	---	---	<2	---	<1	---	6.0	---	---	<25	<25	<25	<25	<2
M01-0491	Field Blank	25-Oct-01	<0.1	<0.05	<0.5	<0.005	<0.0002	<0.01	<0.04	<2	<0.1	<1	<0.02	<0.5	<0.005	<0.1	<25	<25	<25	<25	<2
M01-0494	Field Blank	29-Oct-01	<0.1	<0.05	<0.5	<0.005	<0.0002	<0.01	---	<2	<0.1	<1	<0.02	1.4	<0.005	<0.1	<25	<25	<25	<25	<5

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	MTBE, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l

Notes:

1. < : Denotes a sample value of less than the laboratory reporting limit.
2. Jm : Estimated value--possible matrix effect.
3. * : Method blank had detectable levels of this compound.
4. 1.2/<0.05 : NEL Lab result/Montgomery Watson Lab result.
5. P : Denotes sample was received with a pH greater than 2.
6. Hr: Sample was received beyond holding time for this parameter.
7. Jc: This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.
8. H3: Sample was received and analyzed past holding time.
9. D2: Sample required dilution due to high concentration of target analyte.

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-01	110 to 130	3,300.87	02/19/97	106.65	3,194.22
			05/07/97	105.59	3,195.28
			08/19/97	105.61	3,195.26
			10/21/97	105.71	3,195.16
			02/24/98	105.62	3,195.25
			05/12/98	105.59	3,195.28
			08/11/98	105.61	3,195.26
			10/20/98	105.67	3,195.20
			02/23/99	105.72	3,195.15
			05/11/99	105.66	3,195.21
			08/11/99	105.68	3,195.19
			10/18/99	105.73	3,195.14
			02/22/00	105.81	3,195.06
			05/09/00	105.90	3,194.97
			08/07/00	105.99	3,194.88
			10/26/00	106.10	3,194.77
			02/20/01	106.19	3,194.68
			05/01/01	105.90	3,194.97
			08/01/01	105.89	3,194.98
			10/22/01	106.05	3,194.82
ACW-2a	98 to 118	3,300.88	05/12/99	106.00	3,194.88
			10/18/99	106.09	3,194.79
			05/08/00	107.27	3,193.61
			10/26/00	107.51	3,193.37
			05/02/01	106.31	3,194.57
			10/22/01	106.85	3,194.03
ACW-03	112 to 132	3,300.34	05/08/00	105.98	3,194.36
			10/26/00	106.21	3,194.13
			05/01/01	105.94	3,194.40
			10/23/01	106.15	3,194.19
ACW-04	154 to 169	3,299.48	05/08/00	113.57	3,185.91
			10/26/00	113.25	3,186.23
			05/02/01	106.00	3,193.48
			10/22/01	107.99	3,191.49
ACW-05	105 to 115	3,294.75	02/19/97	103.08	3,191.67
			05/07/97	103.06	3,191.69
			08/19/97	103.07	3,191.68
			10/22/97	103.06	3,191.69
			02/24/98	103.10	3,191.65
			05/13/98	103.10	3,191.65
			08/11/98	103.15	3,191.60
			10/21/98	103.22	3,191.53
			02/23/99	103.26	3,191.49
			05/13/99	103.17	3,191.58
			08/11/99	103.17	3,191.58
			10/21/99	103.25	3,191.50
			02/22/00	103.30	3,191.45
			05/10/00	103.32	3,191.43
			08/07/00	103.40	3,191.35
			10/26/00	103.50	3,191.25
			02/20/01	103.62	3,191.13
			05/06/01	103.57	3,191.18
			08/01/01	103.46	3,191.29
			10/24/01	103.70	3,191.05
ACW-06	110 to 120	3,300.53	02/19/97	107.53	3,193.00
			05/08/97	107.50	3,193.03
			08/18/97	107.51	3,193.02
			10/22/97	107.57	3,192.96
			02/24/98	107.54	3,192.99
			05/13/98	107.55	3,192.98
			08/11/98	107.57	3,192.96
			10/21/98	107.70	3,192.83
			02/23/99	107.68	3,192.85

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-06 cont	110-120	3,300.53	05/13/99	107.62	3,192.91
			08/11/99	107.60	3,192.93
			10/21/99	107.68	3,192.85
			02/22/00	107.72	3,192.81
			05/10/00	107.75	3,192.78
			08/07/00	107.84	3,192.69
			10/26/00	107.90	3,192.63
			02/20/01	108.00	3,192.53
			05/06/01	107.95	3,192.58
			08/01/01	107.87	3,192.66
			10/24/01	108.09	3,192.44
ACW-07	105 to 115	3,295.36	05/12/99	102.62	3,192.74
			10/21/99	102.75	3,192.61
			05/10/00	102.92	3,192.44
			10/26/00	103.20	3,192.16
			05/06/01	103.08	3,192.28
			10/24/01	103.35	3,192.01
ACW-08	140 to 173	3,297.27	05/11/99	104.17	3,193.10
			10/18/99	104.29	3,192.98
			05/09/00	104.40	3,192.87
			10/26/00	104.64	3,192.63
			05/01/01	104.48	3,192.79
			10/24/01	104.60	3,192.67
ACW-09	140 to 160	3,302.47	02/19/97	110.24	3,192.23
			05/08/97	110.25	3,192.22
			08/19/97	110.26	3,192.21
			10/23/97	110.28	3,192.19
			02/24/98	110.29	3,192.18
			05/13/98	110.30	3,192.17
			08/11/98	110.32	3,192.15
			10/21/98	110.40	3,192.07
			02/23/99	110.54	3,191.93
			05/13/99	110.45	3,192.02
			08/11/99	110.45	3,192.02
			10/22/99	110.50	3,191.97
			02/22/00	111.18	3,191.29
			05/12/00	111.89	3,190.58
			08/07/00	111.22	3,191.25
			10/26/00	112.20	3,190.27
			02/20/01	112.41	3,190.06
			05/04/01	110.85	3,191.62
			08/01/01	110.70	3,191.77
			10/25/01	112.17	3,190.30
ACW-10	140 to 160	3,297.57	02/19/97	106.31	3,191.26
			05/08/97	106.32	3,191.25
			08/19/97	106.33	3,191.24
			10/23/97	106.35	3,191.22
			02/24/98	106.38	3,191.19
			05/14/98	106.38	3,191.19
			08/11/98	106.41	3,191.16
			10/22/98	106.54	3,191.03
			02/23/99	106.52	3,191.05
			05/14/99	106.45	3,191.12
			08/11/99	106.47	3,191.10
			10/22/99	106.52	3,191.05
			02/22/00	106.39	3,191.18
			05/12/00	106.63	3,190.94
			08/07/00	106.77	3,190.80
			10/26/00	106.89	3,190.68
			02/20/01	106.99	3,190.58
			05/06/01	106.82	3,190.75
			08/01/01	106.76	3,190.81
			10/25/01	107.01	3,190.56

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-11	140 to 160	3,299.33	02/19/97	106.01	3,193.32
			05/06/97	105.95	3,193.38
			08/19/97	106.00	3,193.33
			10/21/97	106.02	3,193.31
			02/24/98	106.02	3,193.31
			05/12/98	106.00	3,193.33
			08/11/98	106.07	3,193.26
			10/20/98	106.17	3,193.16
			02/23/99	106.20	3,193.13
			05/12/99	106.07	3,193.26
			08/11/99	106.15	3,193.18
			10/20/99	106.16	3,193.17
			02/22/00	106.27	3,193.06
			05/09/00	106.31	3,193.02
			08/07/00	106.54	3,192.79
			10/26/00	106.65	3,192.68
			02/20/01	106.70	3,192.63
			05/01/01	106.45	3,192.88
			08/01/01	106.40	3,192.93
			10/23/01	106.57	3,192.76
ACW-12	150 to 170	3,299.56	02/19/97	109.32	3,190.24
			05/08/97	109.32	3,190.24
			08/20/97	99.29	3,200.27
			10/23/97	109.39	3,190.17
			02/24/98	109.38	3,190.18
			05/14/98	109.35	3,190.21
			08/11/98	109.40	3,190.16
			10/22/98	109.51	3,190.05
			02/23/99	109.54	3,190.02
			05/14/99	109.44	3,190.12
			08/11/99	109.54	3,190.02
			10/22/99	109.52	3,190.04
			02/22/00	109.50	3,190.06
			05/11/00	109.57	3,189.99
			08/07/00	109.65	3,189.91
			10/26/00	109.78	3,189.78
			02/20/01	109.90	3,189.66
			05/03/01	109.75	3,189.81
			08/01/01	109.76	3,189.80
			10/25/01	109.99	3,189.57
ACW-13	153 to 173	3,289.46	02/20/97	99.28	3,190.18
			05/08/97	99.29	3,190.17
			08/20/97	99.29	3,190.17
			10/23/97	99.27	3,190.19
			02/24/98	99.31	3,190.15
			05/14/98	99.31	3,190.15
			08/11/98	99.36	3,190.10
			10/22/98	99.40	3,190.06
			02/23/99	99.45	3,190.01
			05/14/99	99.38	3,190.08
			08/11/99	99.44	3,190.02
			10/22/99	99.44	3,190.02
			02/23/00	99.48	3,189.98
			05/11/00	99.47	3,189.99
			08/07/00	99.53	3,189.93
			10/26/00	99.50	3,189.96
			02/20/01	99.65	3,189.81
			05/06/01	99.62	3,189.84
			08/01/01	99.61	3,189.85
			10/25/01	99.61	3,189.85
ACW-14	157 to 177	3,291.18	02/19/97	NM	NM
			05/06/97	NM	NM
			08/20/97	100.41	3,190.77

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-14 cont	157-177	3,291.18	10/22/97	100.38	3,190.80
			02/24/98	100.47	3,190.71
			05/13/98	100.42	3,190.76
			08/11/98	100.47	3,190.71
			10/21/98	100.54	3,190.64
			02/23/99	100.57	3,190.61
			05/13/99	100.49	3,190.69
			08/09/99	100.49	3,190.69
			10/21/99	100.55	3,190.63
			02/22/00	100.56	3,190.62
			05/10/00	100.52	3,190.66
			08/07/00	100.61	3,190.57
			10/26/00	100.62	3,190.56
			02/20/01	100.75	3,190.43
			05/03/01	100.72	3,190.46
			08/01/01	100.75	3,190.43
			10/24/01	100.75	3,190.43
ACW-15	150 to 170	3,290.54	10/23/99	102.39	3,188.15
			02/23/00	102.41	3,188.13
			05/11/00	102.42	3,188.12
			08/07/00	102.45	3,188.09
			10/26/00	102.42	3,188.12
			02/20/01	102.55	3,187.99
			05/06/01	102.51	3,188.03
			08/01/01	102.58	3,187.96
			10/25/01	102.56	3,187.98

NOTES:

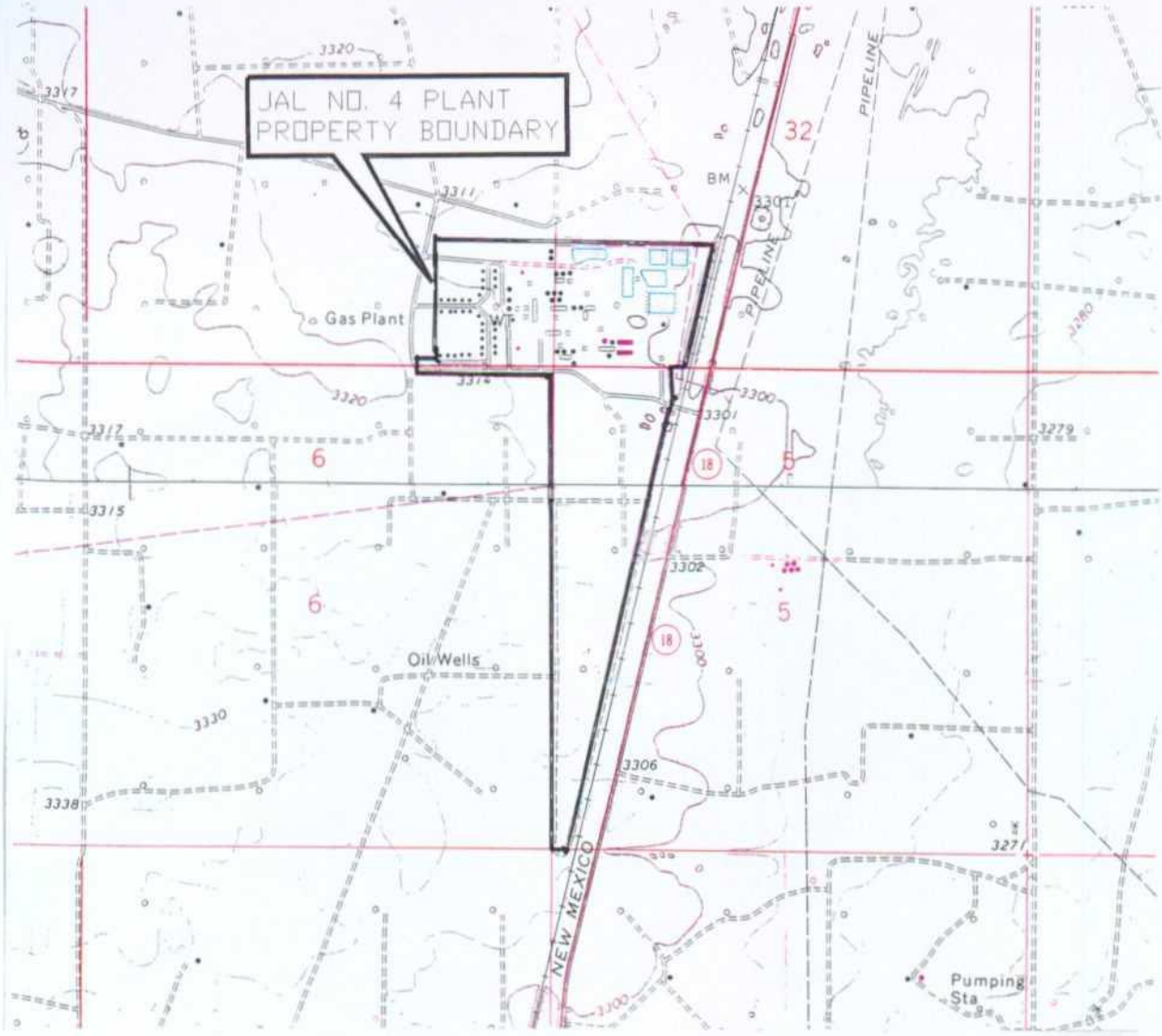
1. TOC : Top of Casing
2. AMSL : Above Mean Sea Level
3. NM : No Measurement Taken
4. BGL: Below Ground Level

FIGURES

R 37 E

T 23 S

T 24 S



AFTER U.S.G.S. 7.5 MIN. TOPO. QUAD., RATTLESNAKE CANYON, N.M., 1979, AND JAL NW, N.M., 1979

N

SCALE

0 1/2 1 MILE

NEW MEXICO

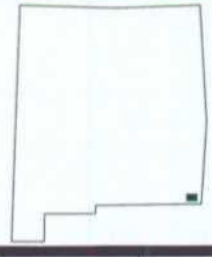


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FIGURE TITLE	SITE LOCATION AND TOPOGRAPIC FEATURES
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

DATE	1/15/02
SCALE	AS SHOWN
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG
PROJECT NUMBER	9717101
FIGURE NUMBER	1

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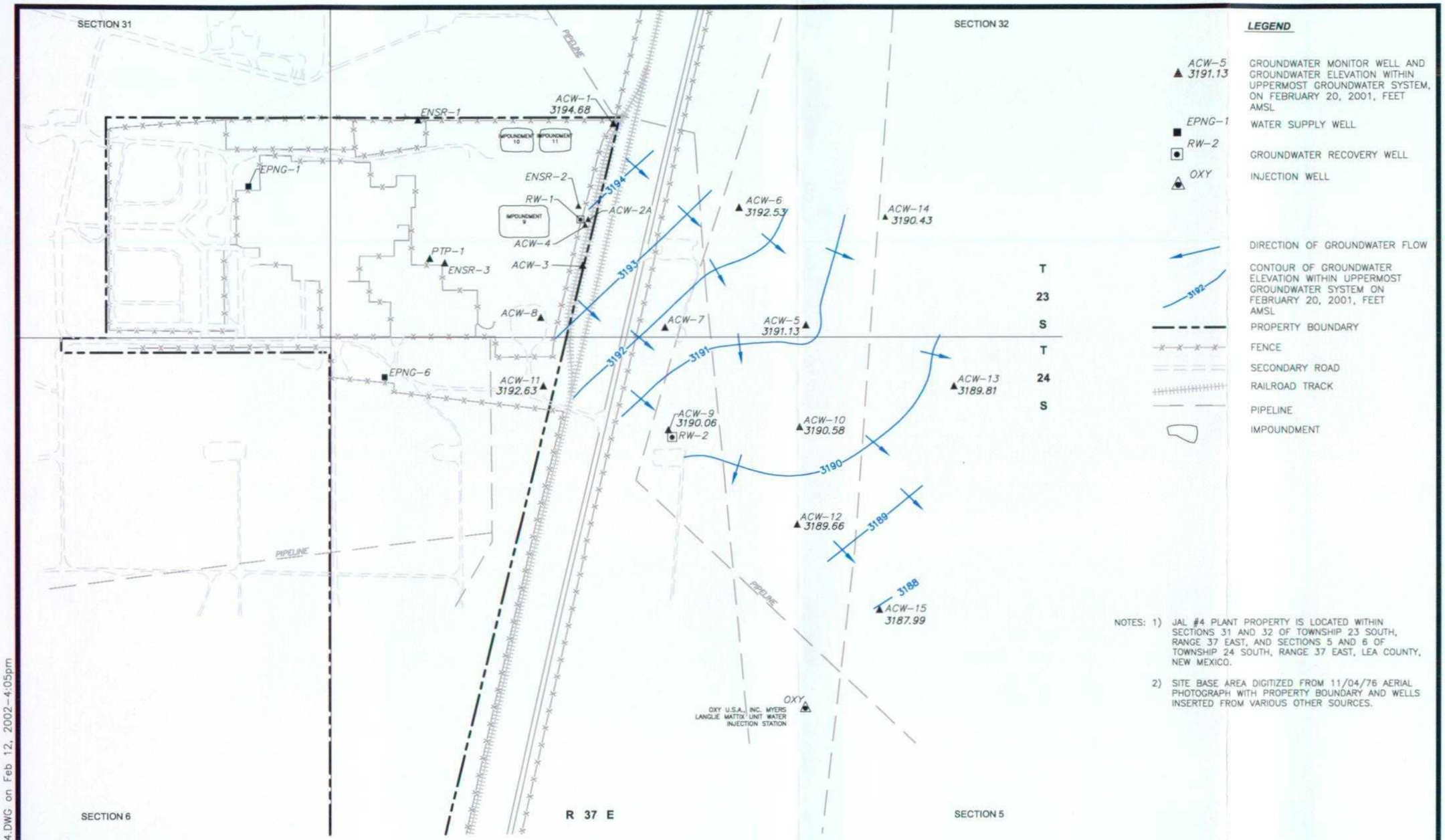

FIGURE TITLE	GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON FEBRUARY 20, 2001
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/14/02
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M24
FIGURE NUMBER
2

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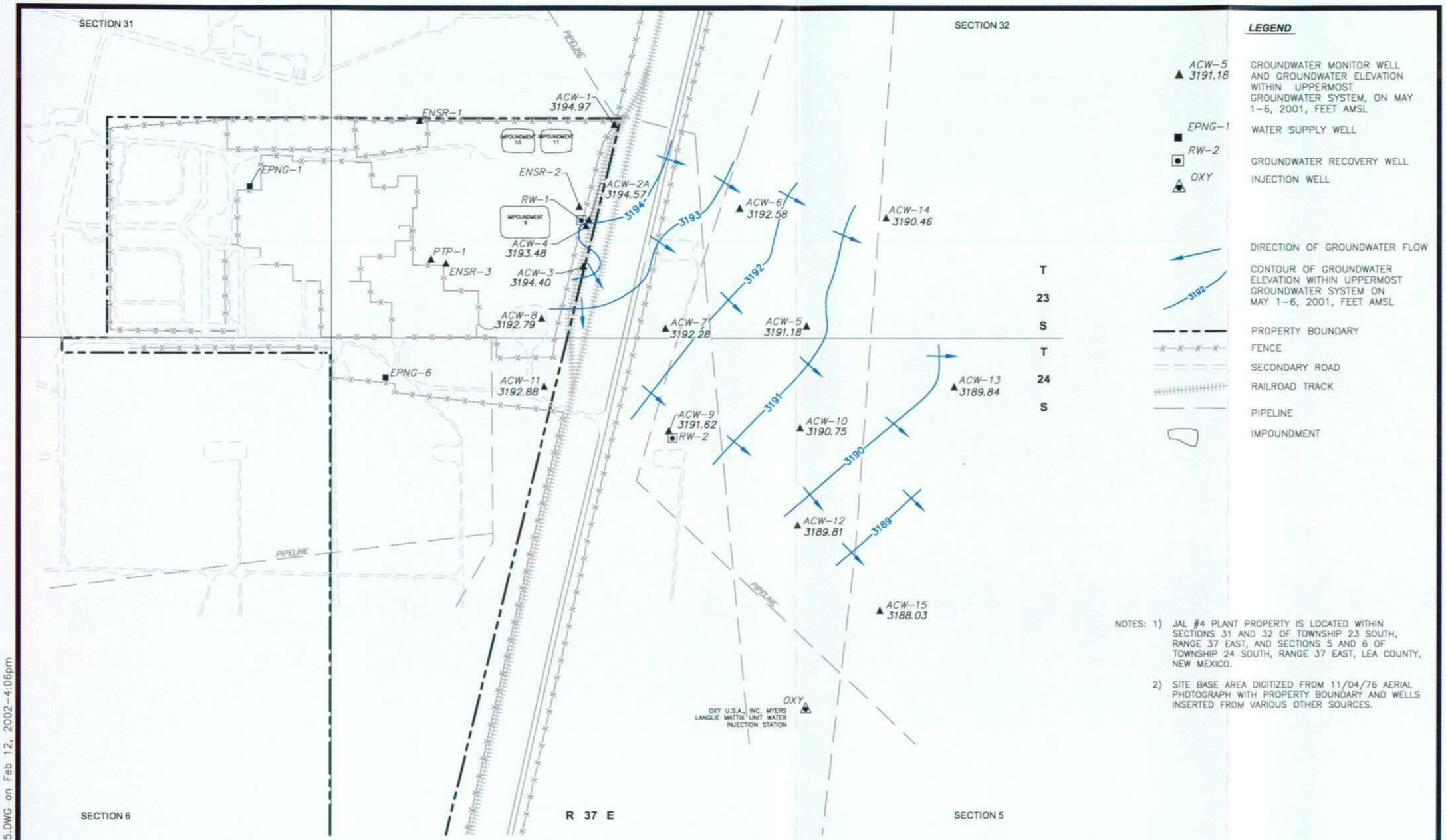

NOTES: 1) JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.

2) SITE BASE AREA DIGITIZED FROM 11/04/76 AERIAL PHOTOGRAPH WITH PROPERTY BOUNDARY AND WELLS INSERTED FROM VARIOUS OTHER SOURCES.

FIGURE TITLE	GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON MAY 1 - 6, 2001
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	12/3/01
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M25
FIGURE NUMBER
3

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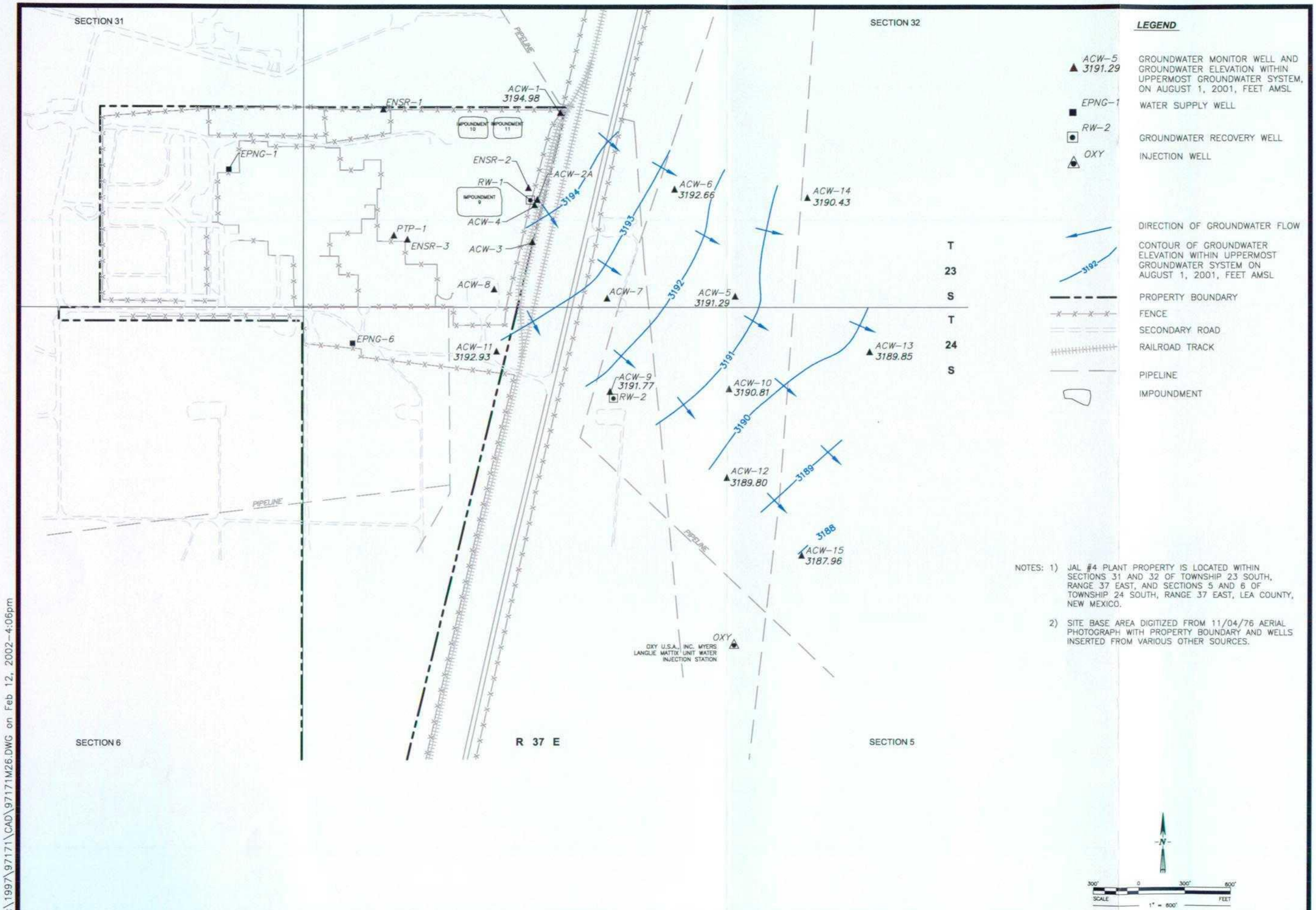

LEGEND

- ACW-5 3191.29 — GROUNDWATER MONITOR WELL AND GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM, ON AUGUST 1, 2001, FEET AMSL
- EPNG-1 — WATER SUPPLY WELL
- RW-2 — GROUNDWATER RECOVERY WELL
- OXY — INJECTION WELL
- DIRECTION OF GROUNDWATER FLOW
- 3192 — CONTOUR OF GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM ON AUGUST 1, 2001, FEET AMSL
- PROPERTY BOUNDARY
- FENCE
- SECONDARY ROAD
- RAILROAD TRACK
- PIPELINE
- IMPOUNDMENT

NOTES:
1) JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.
2) SITE BASE AREA DIGITIZED FROM 11/04/76 AERIAL PHOTOGRAPH WITH PROPERTY BOUNDARY AND WELLS INSERTED FROM VARIOUS OTHER SOURCES.

N

300' 0 300' 600'
SCALE FEET
1" = 600'

FIGURE TITLE	***GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON AUGUST 1, 2001***
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/14/02
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M26
FIGURE NUMBER
4

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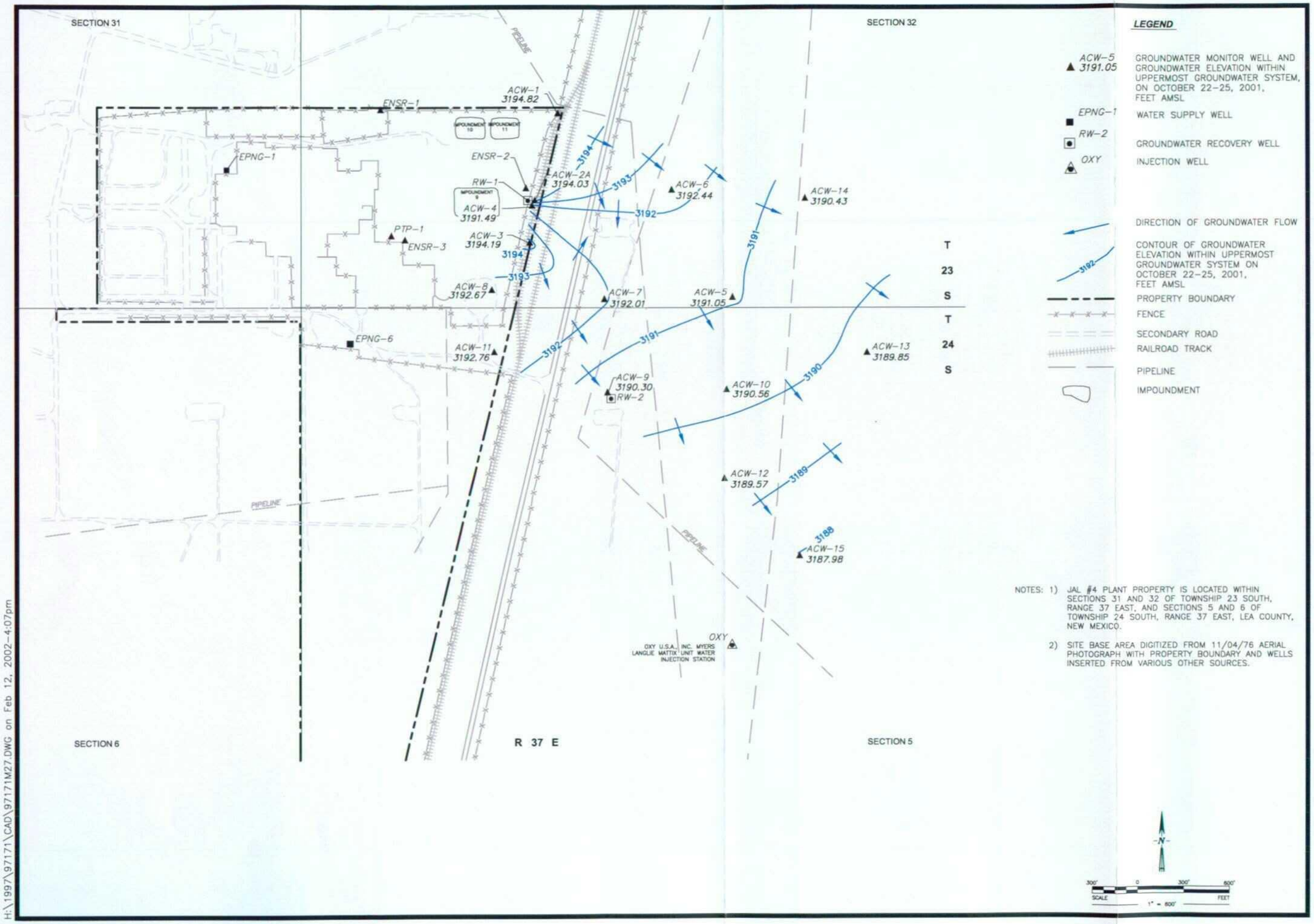

NOTES: 1) JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.

2) SITE BASE AREA DIGITIZED FROM 11/04/76 AERIAL PHOTOGRAPH WITH PROPERTY BOUNDARY AND WELLS INSERTED FROM VARIOUS OTHER SOURCES.

FIGURE TITLE	*GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON OCTOBER 22 - 25, 2001*
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/14/02
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M27
FIGURE NUMBER
5

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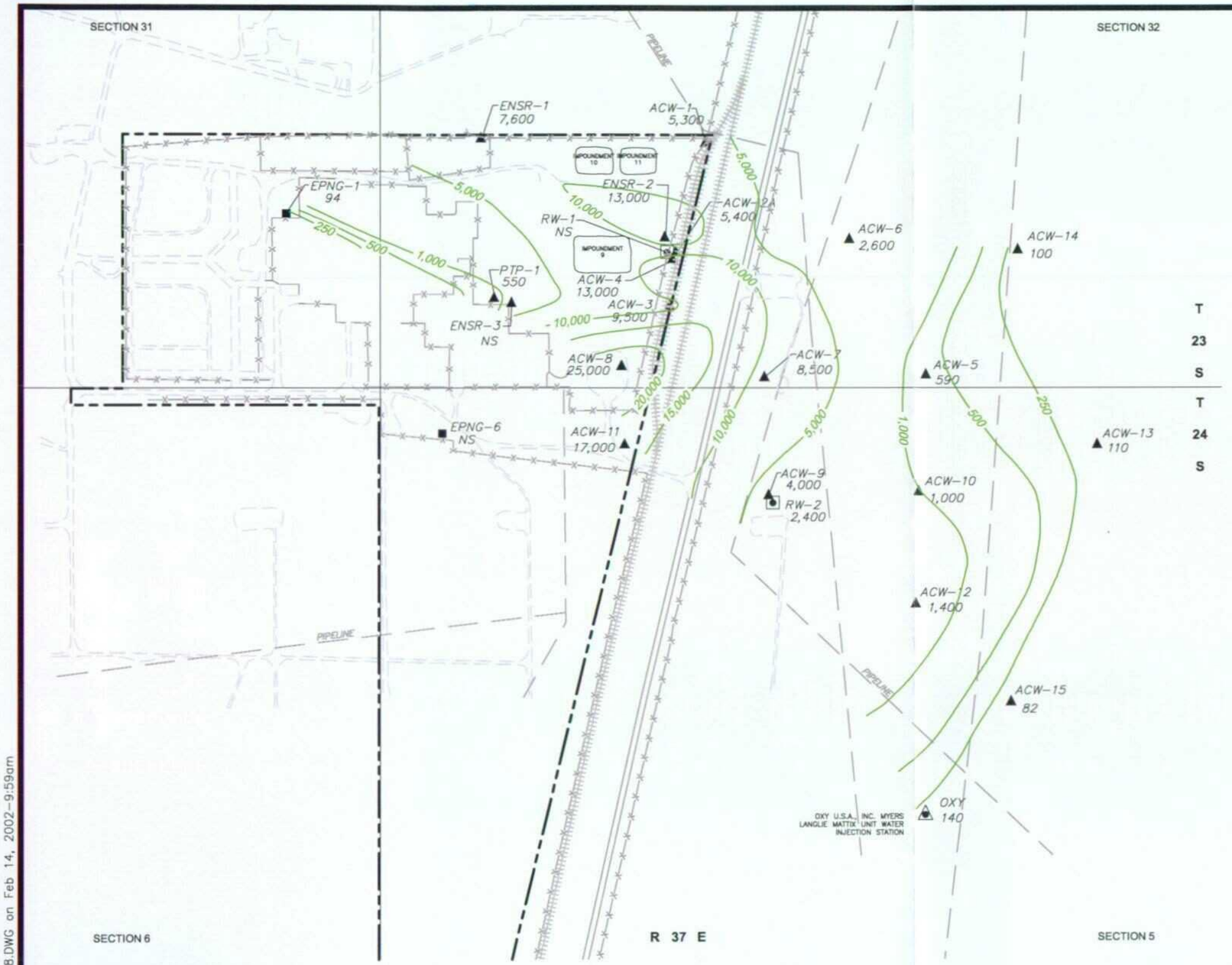

LEGEND

- ACW-5 590 — GROUNDWATER MONITOR WELL AND CONCENTRATION OF CHLORIDE IN GROUNDWATER, mg/L
- EPNG-1 94 — WATER SUPPLY WELL AND CONCENTRATION OF CHLORIDE IN GROUNDWATER, mg/L
- RW-2 — GROUNDWATER RECOVERY WELL
- OXY — INJECTION WELL
- NS — NOT SAMPLED
- 250 — CONTOUR LINE SHOWING EQUAL CONCENTRATIONS OF CHLORIDE IN GROUNDWATER, mg/L.
- PROPERTY BOUNDARY
- FENCE
- PRIMARY ROAD OR HIGHWAY
- SECONDARY ROAD
- RAILROAD TRACK
- PIPELINE
- IMPOUNDMENT

NOTES:
1) CHLORIDE CONCENTRATIONS SHOWN ARE THE HIGHEST LEVELS DETECTED IN GROUNDWATER IN EACH WELL DURING THE 2001 MONITORING PROGRAM.
2) EPA's SECONDARY DRINKING WATER STANDRAD (SMCL) FOR PUBLIC WATER SUPPLY SYSTEMS IS 250 mg/L.
3) NEW MEXICO ENVIRONMENTAL DIVISION HAS ESTABLISHED AN OTHER STANDARDS FOR DOMESTIC WATER SUPPLY OF 250 mg/L FOR CHLORIDE IN GROUNDWATER CONTAINING TDS LEVELS OF 10,000 mg/L OR LESS.
4) JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.
5) SITE BASE AREA DIGITIZED FROM 11/04/76 AERIAL PHOTOGRAPH WITH PROPERTY BOUNDARY AND WELLS INSERTED FROM VARIOUS OTHER SOURCES.

N

SCALE 300' 0 300' 600' FEET
1" = 600'

FIGURE TITLE	ISOPLETH OF CHLORIDE CONCENTRATIONS IN GROUNDWATER IN 2001
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	2/13/02
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M28
FIGURE NUMBER
6

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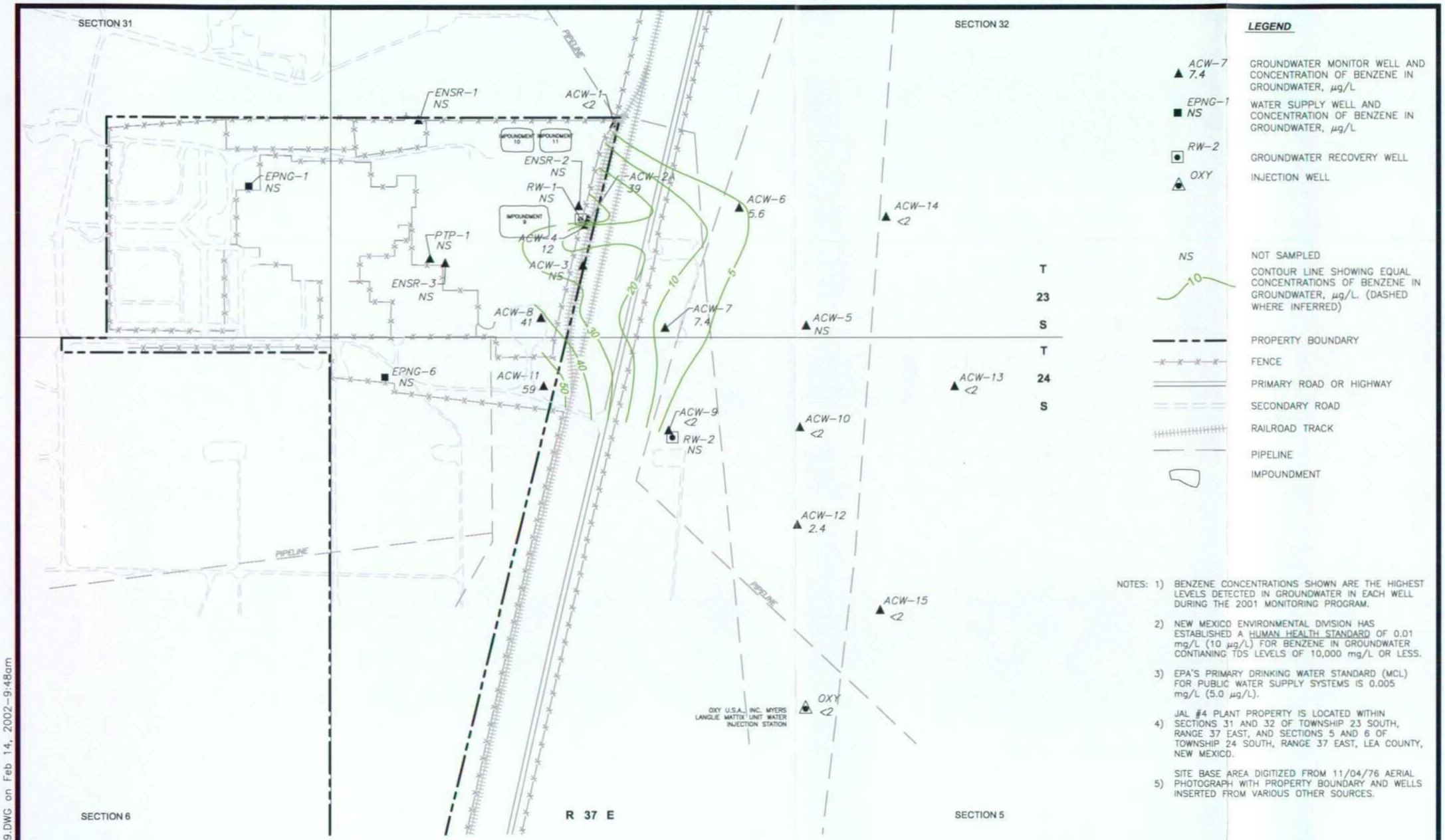

LEGEND

- ACW-7 7.4 — GROUNDWATER MONITOR WELL AND CONCENTRATION OF BENZENE IN GROUNDWATER, µg/L
- EPNG-1 NS — WATER SUPPLY WELL AND CONCENTRATION OF BENZENE IN GROUNDWATER, µg/L
- RW-2 — GROUNDWATER RECOVERY WELL
- OXY — INJECTION WELL
- NS — NOT SAMPLED
- 10 — CONTOUR LINE SHOWING EQUAL CONCENTRATIONS OF BENZENE IN GROUNDWATER, µg/L. (DASHED WHERE INFERRED)
- PROPERTY BOUNDARY
- FENCE
- PRIMARY ROAD OR HIGHWAY
- SECONDARY ROAD
- RAILROAD TRACK
- PIPELINE
- IMPOUNDMENT

NOTES:
1) BENZENE CONCENTRATIONS SHOWN ARE THE HIGHEST LEVELS DETECTED IN GROUNDWATER IN EACH WELL DURING THE 2001 MONITORING PROGRAM.
2) NEW MEXICO ENVIRONMENTAL DIVISION HAS ESTABLISHED A HUMAN HEALTH STANDARD OF 0.01 mg/L (10 µg/L) FOR BENZENE IN GROUNDWATER CONTIANING TDS LEVELS OF 10,000 mg/L OR LESS.
3) EPA'S PRIMARY DRINKING WATER STANDARD (MCL) FOR PUBLIC WATER SUPPLY SYSTEMS IS 0.005 mg/L (5.0 µg/L).
4) JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO.
5) SITE BASE AREA DIGITIZED FROM 11/04/76 AERIAL PHOTOGRAPH WITH PROPERTY BOUNDARY AND WELLS INSERTED FROM VARIOUS OTHER SOURCES.

FIGURE TITLE	ISOPLETH OF BENZENE CONCENTRATIONS IN GROUNDWATER IN 2001
DOCUMENT TITLE	2001 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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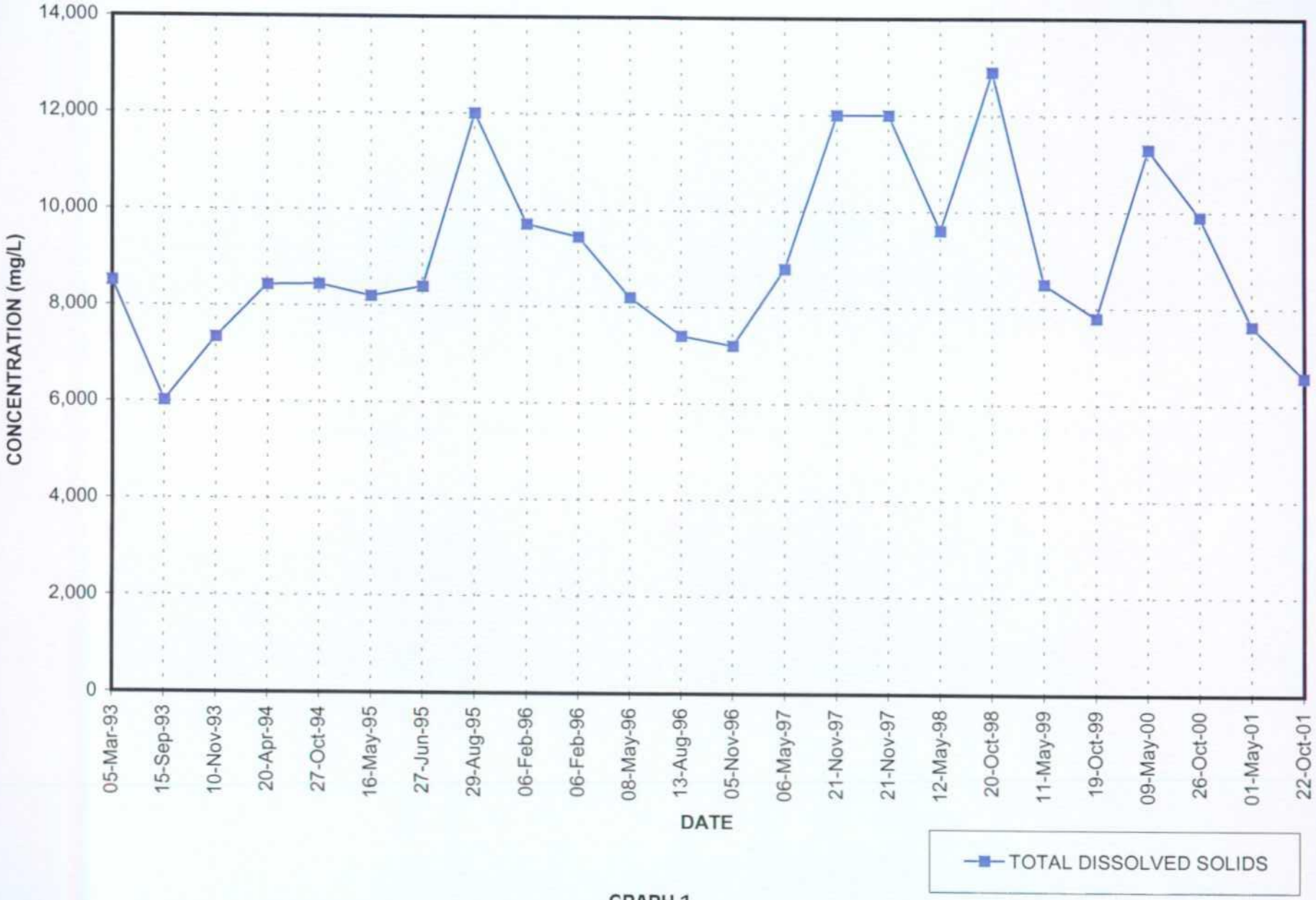
DATE	2/13/02
SCALE	1"=600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	SKG

PROJECT NUMBER
9717101 M29
FIGURE NUMBER
7

H:\1997\97171\CAD\97171M29.DWG on Feb 14, 2002 - 9:48am

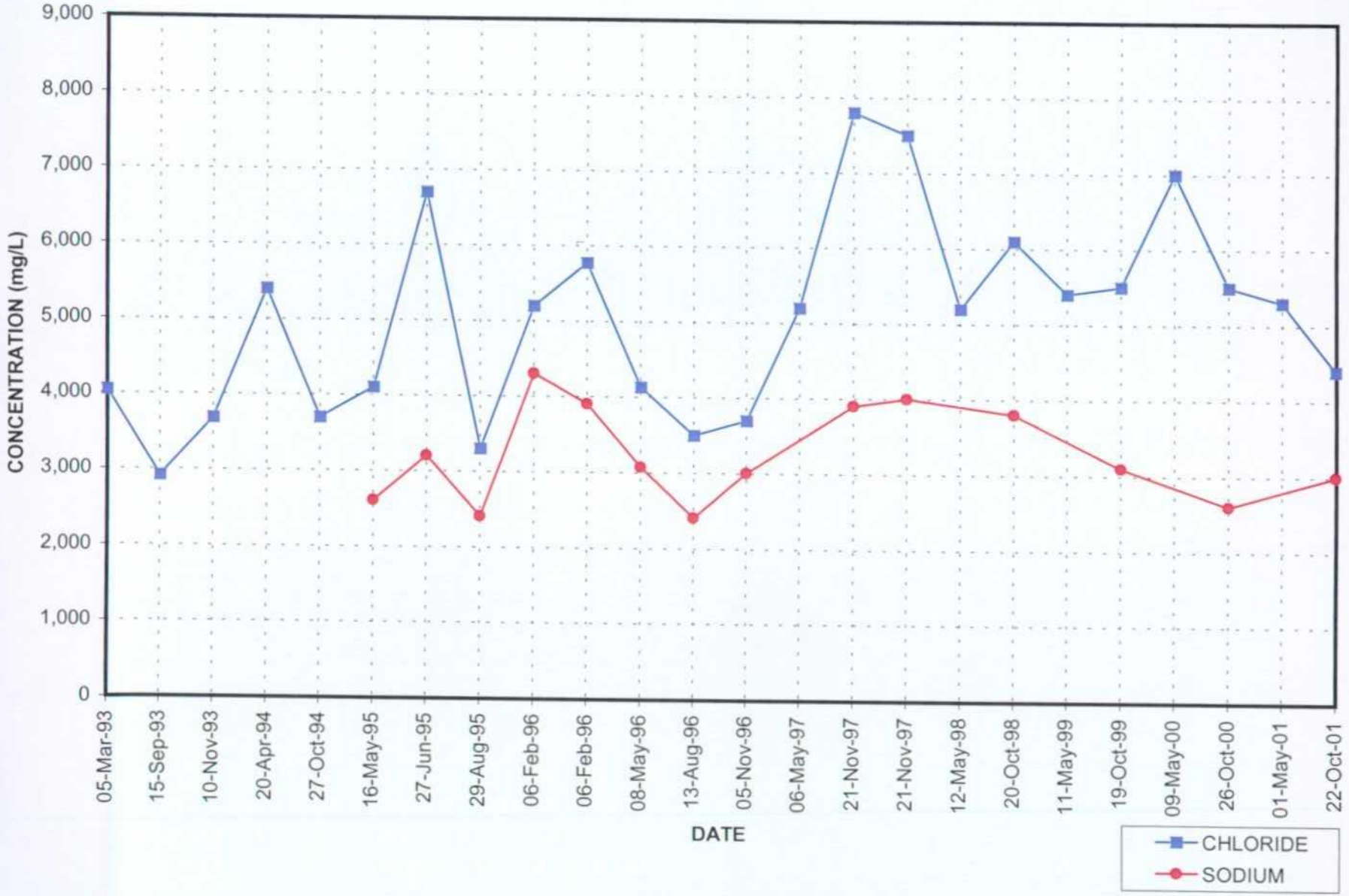
GRAPHS

MONITOR WELL ACW-01



GRAPH 1

MONITOR WELL ACW-01



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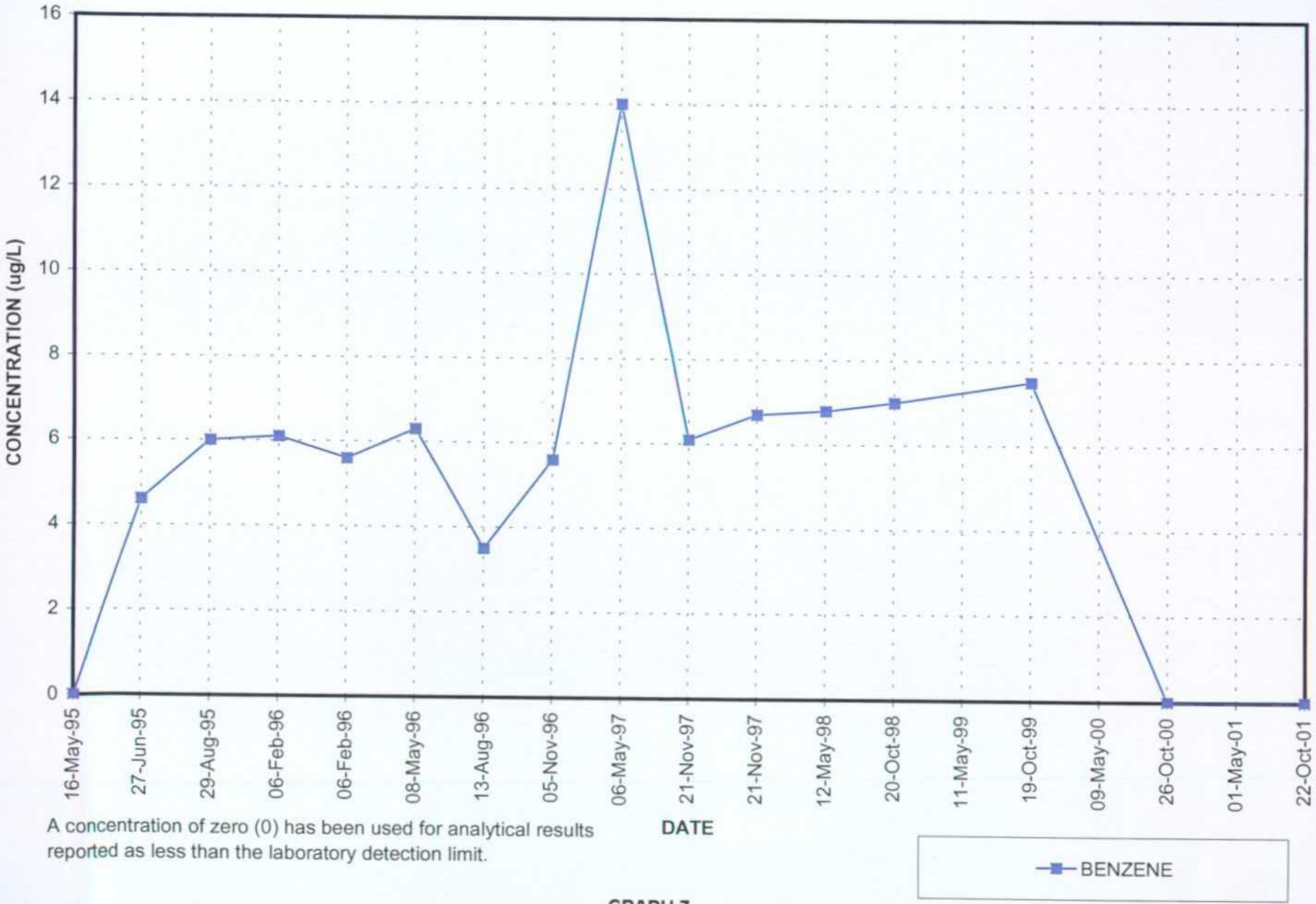
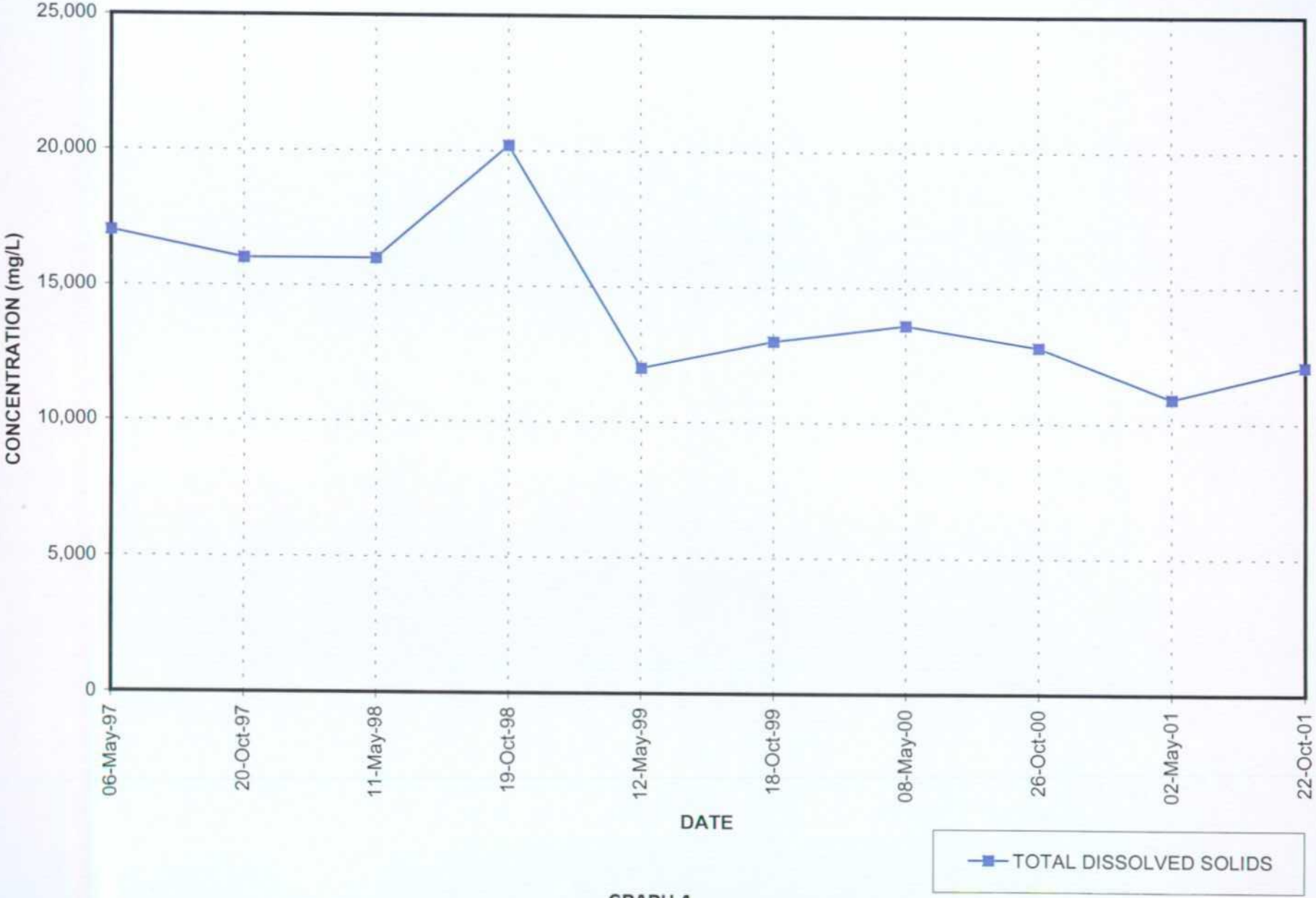
MONITOR WELL ACW-01



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 3

MONITOR WELL ACW-02A



GRAPH 4

MONITOR WELL ACW-02A

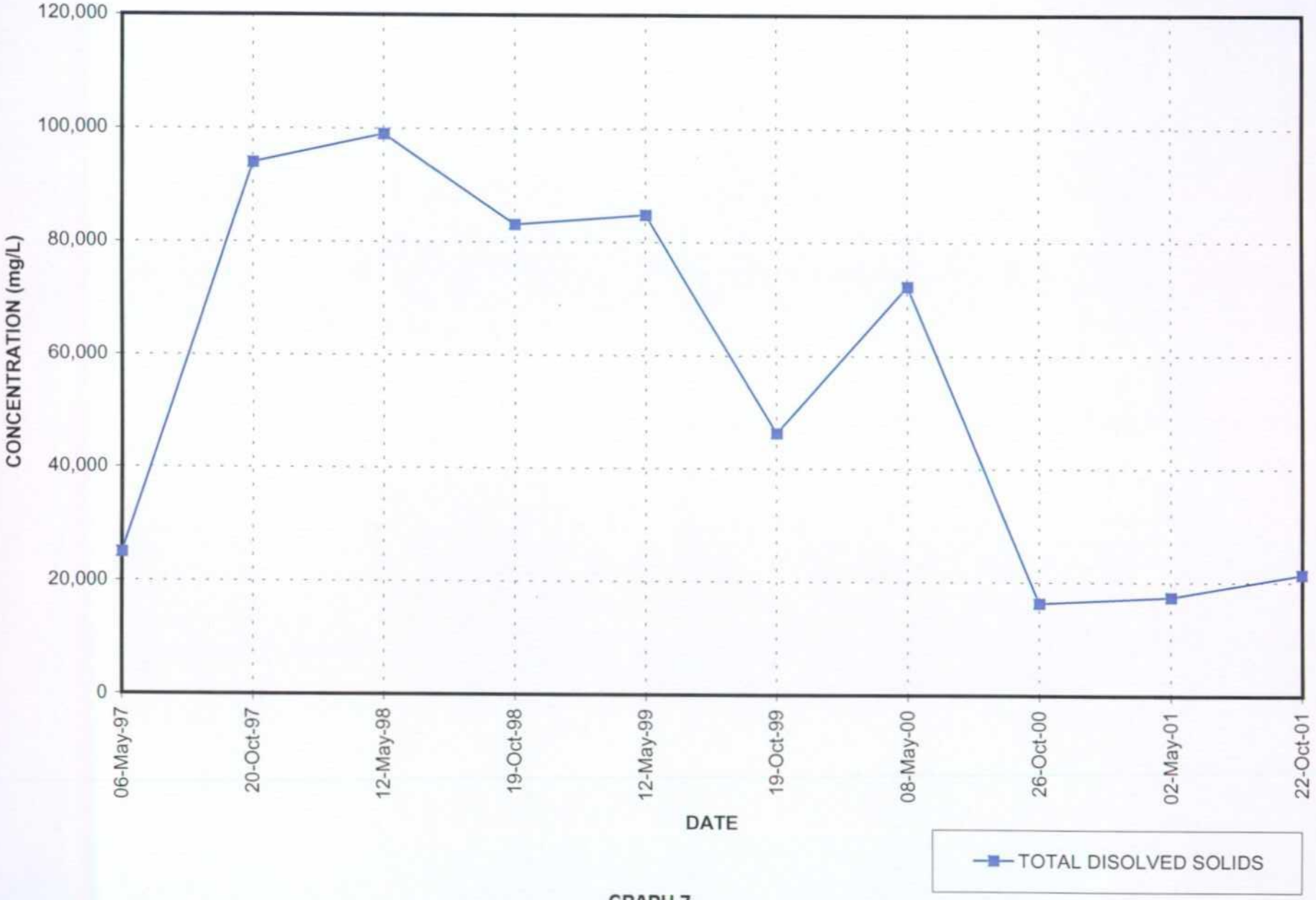
GRAPH 5

MONITOR WELL ACW-02A

A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

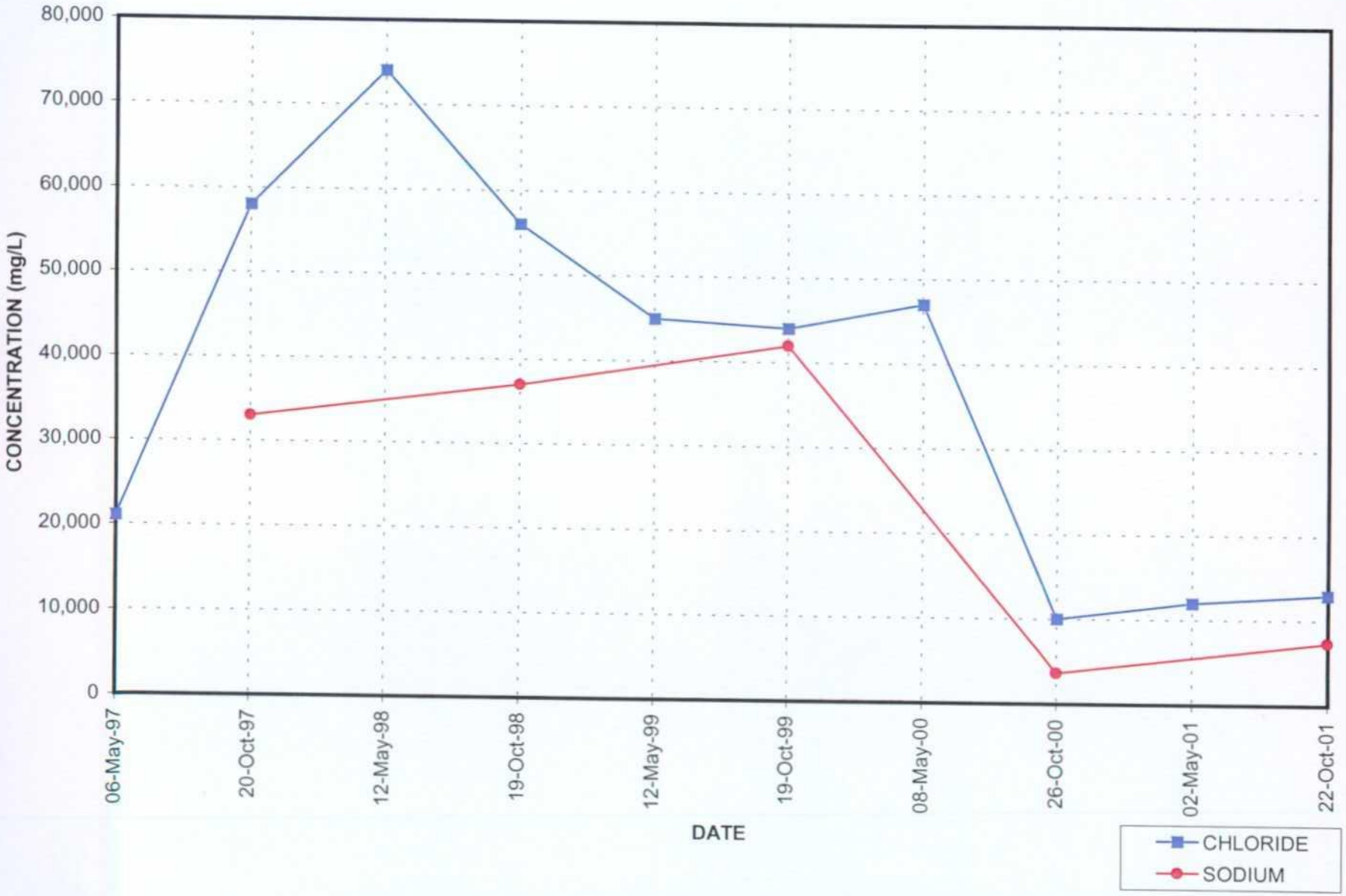
GRAPH 6

MONITOR WELL ACW-04



GRAPH 7

MONITOR WELL ACW-04



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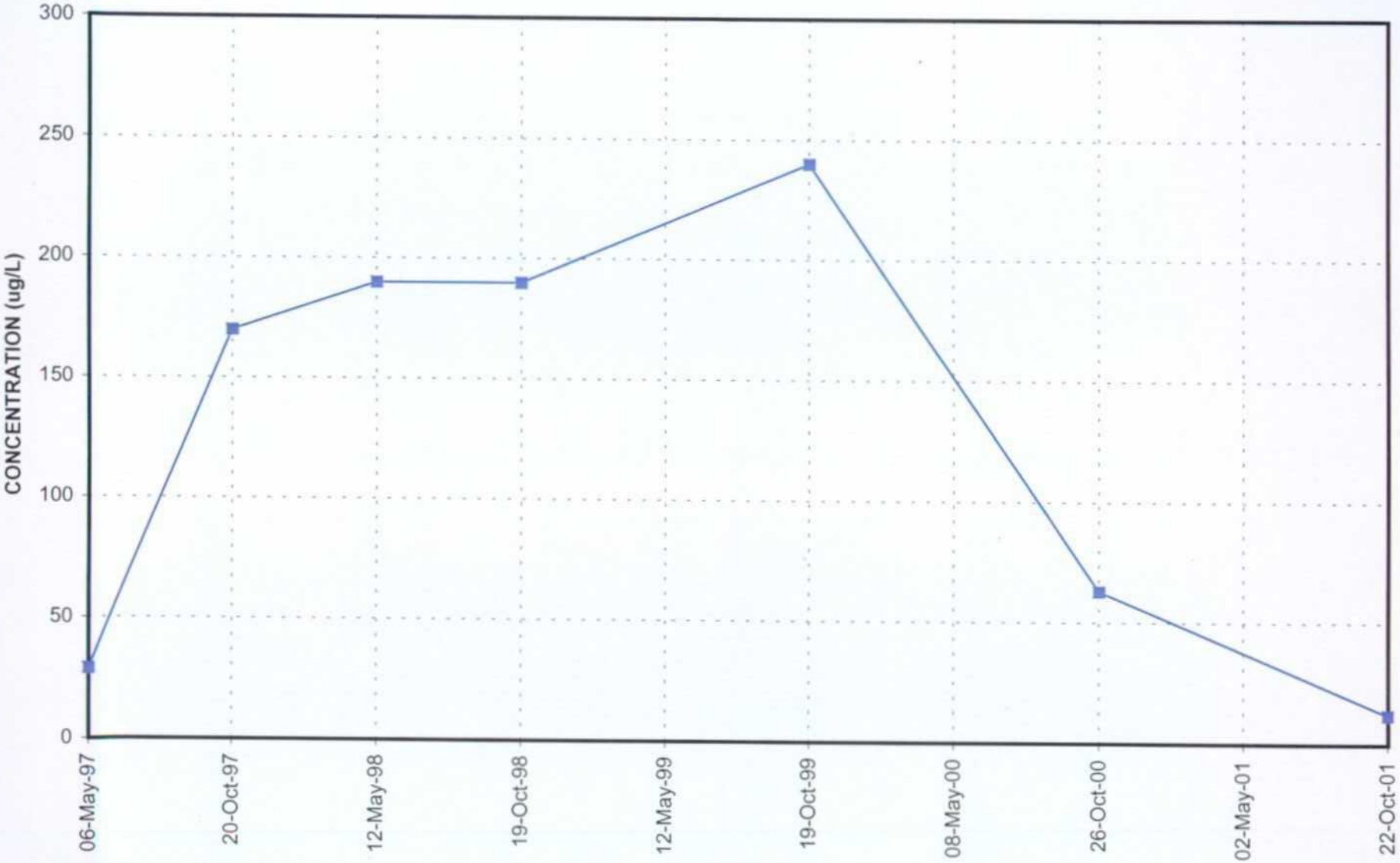
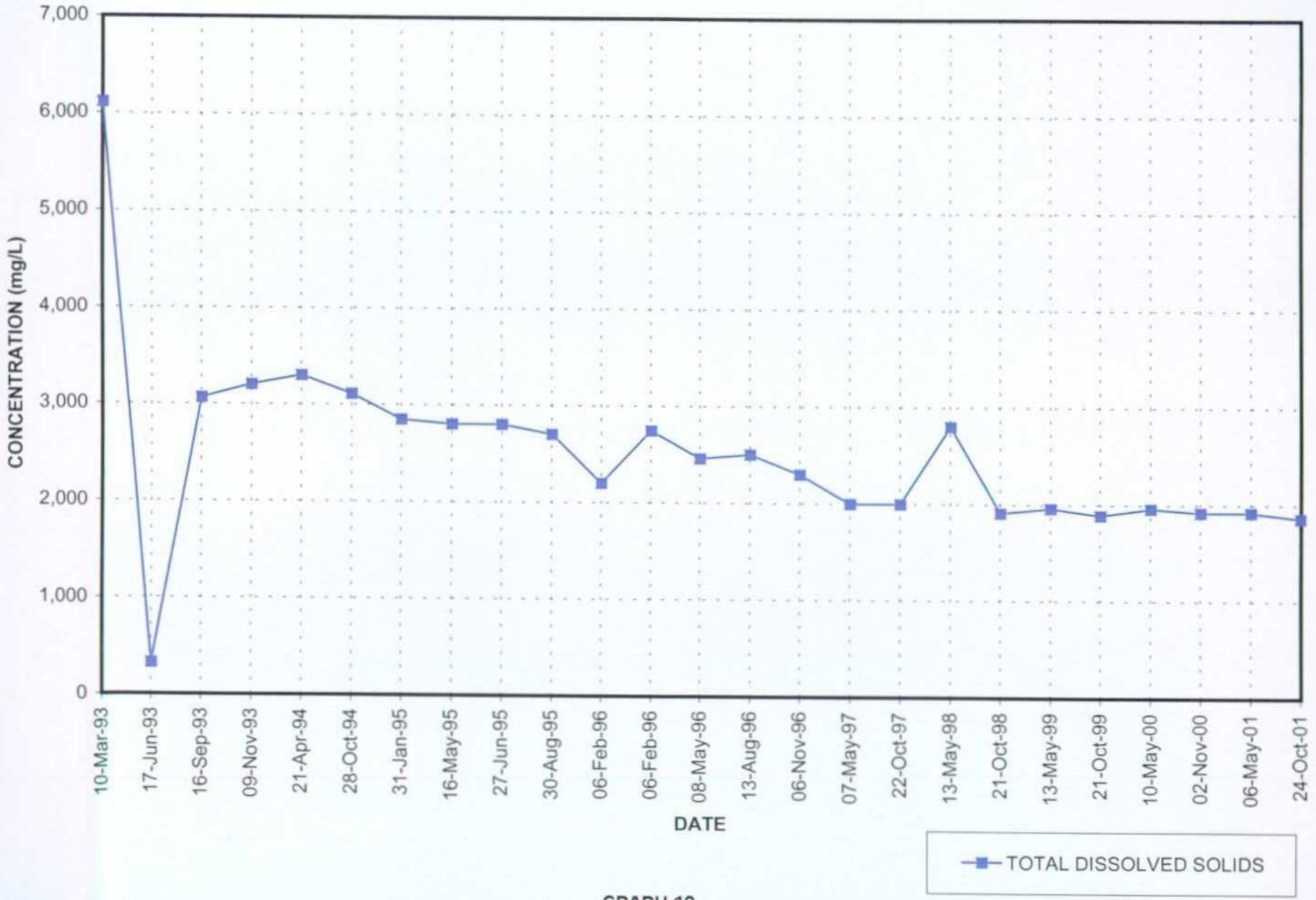
MONITOR WELL ACW-04



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 9

MONITOR WELL ACW-05



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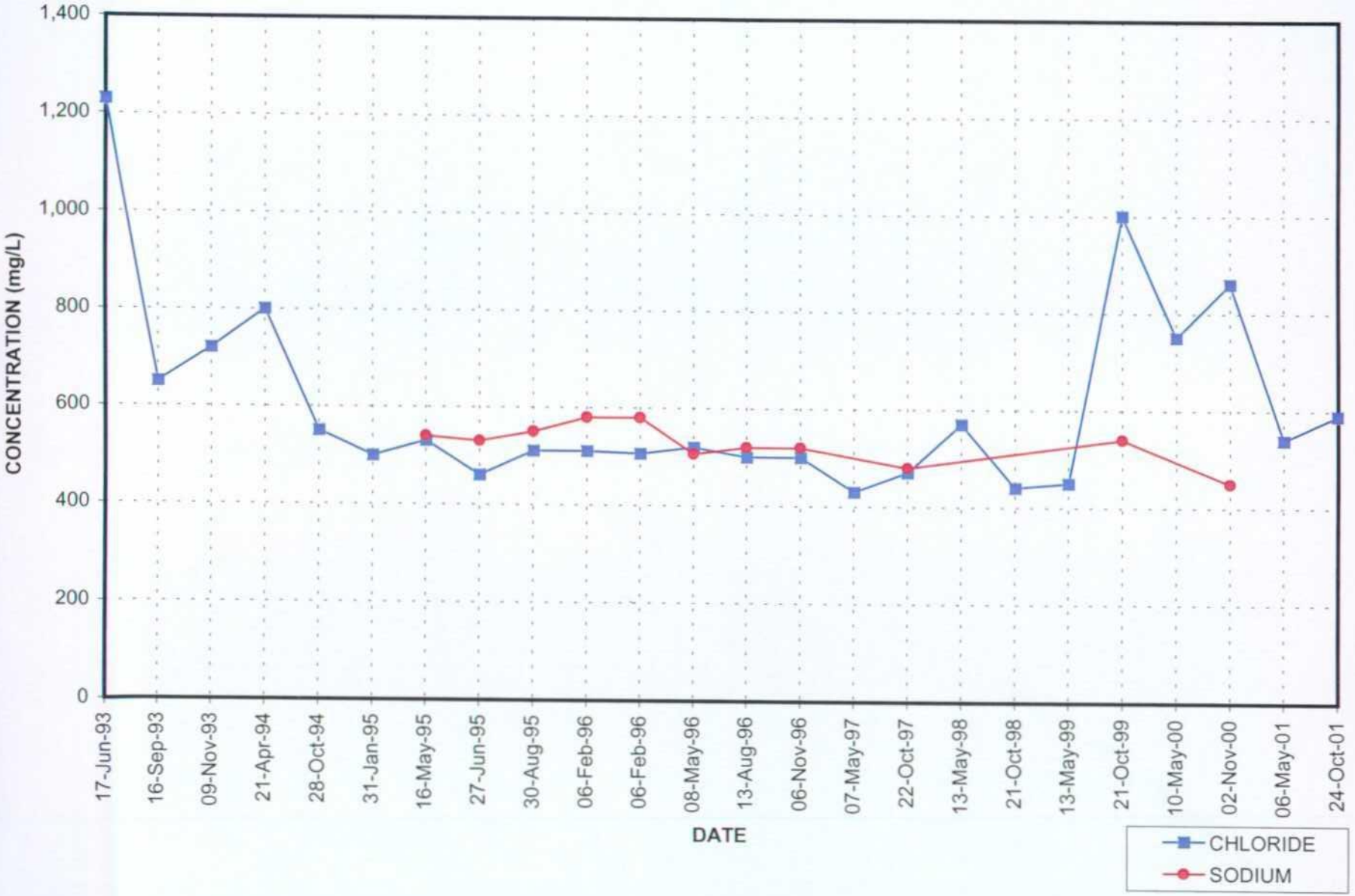
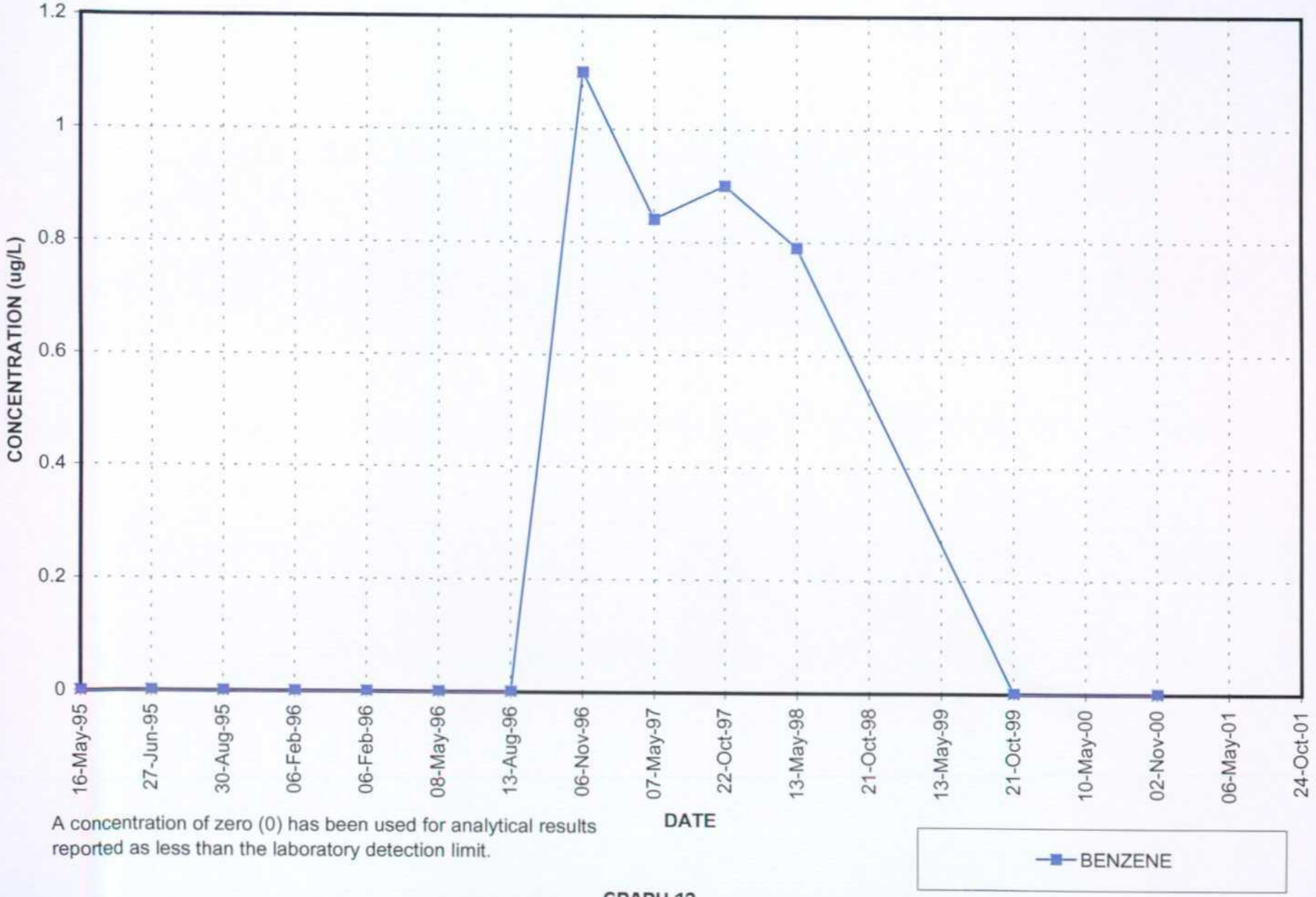
MONITOR WELL ACW-05



GRAPH 11

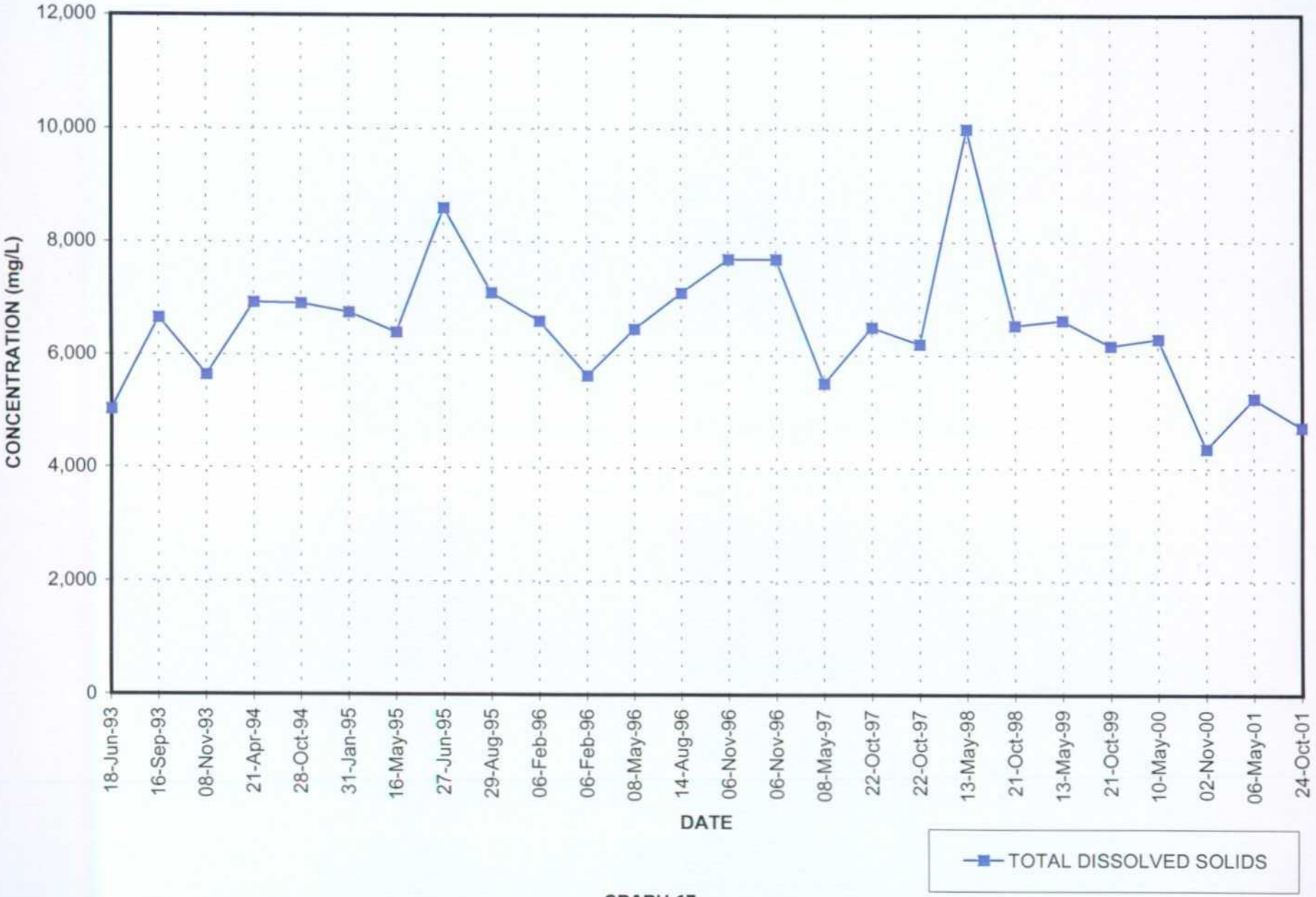
MONITOR WELL ACW-05



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

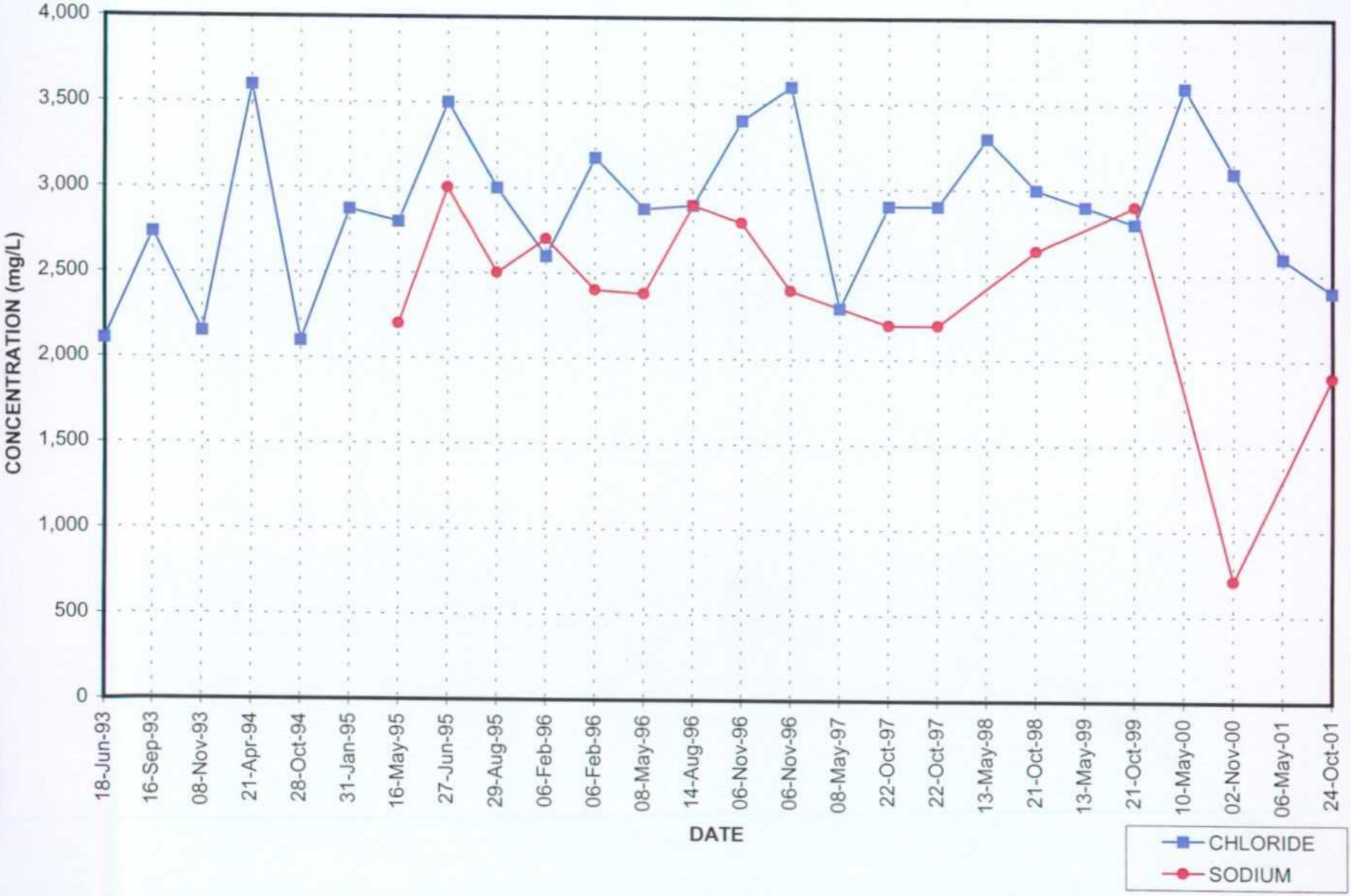
GRAPH 12

MONITOR WELL ACW-06



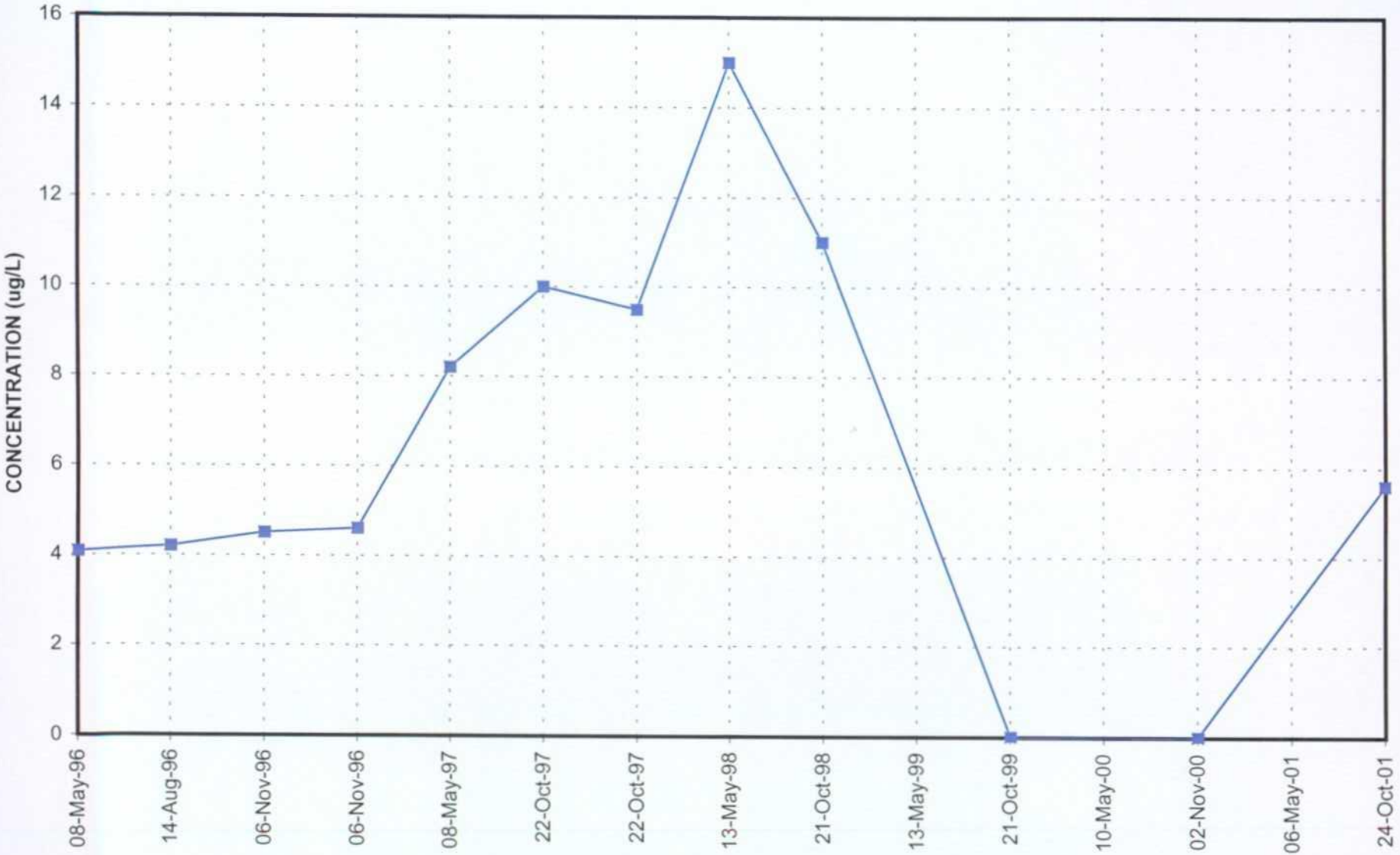
GRAPH 13

MONITOR WELL ACW-06



GRAPH 14

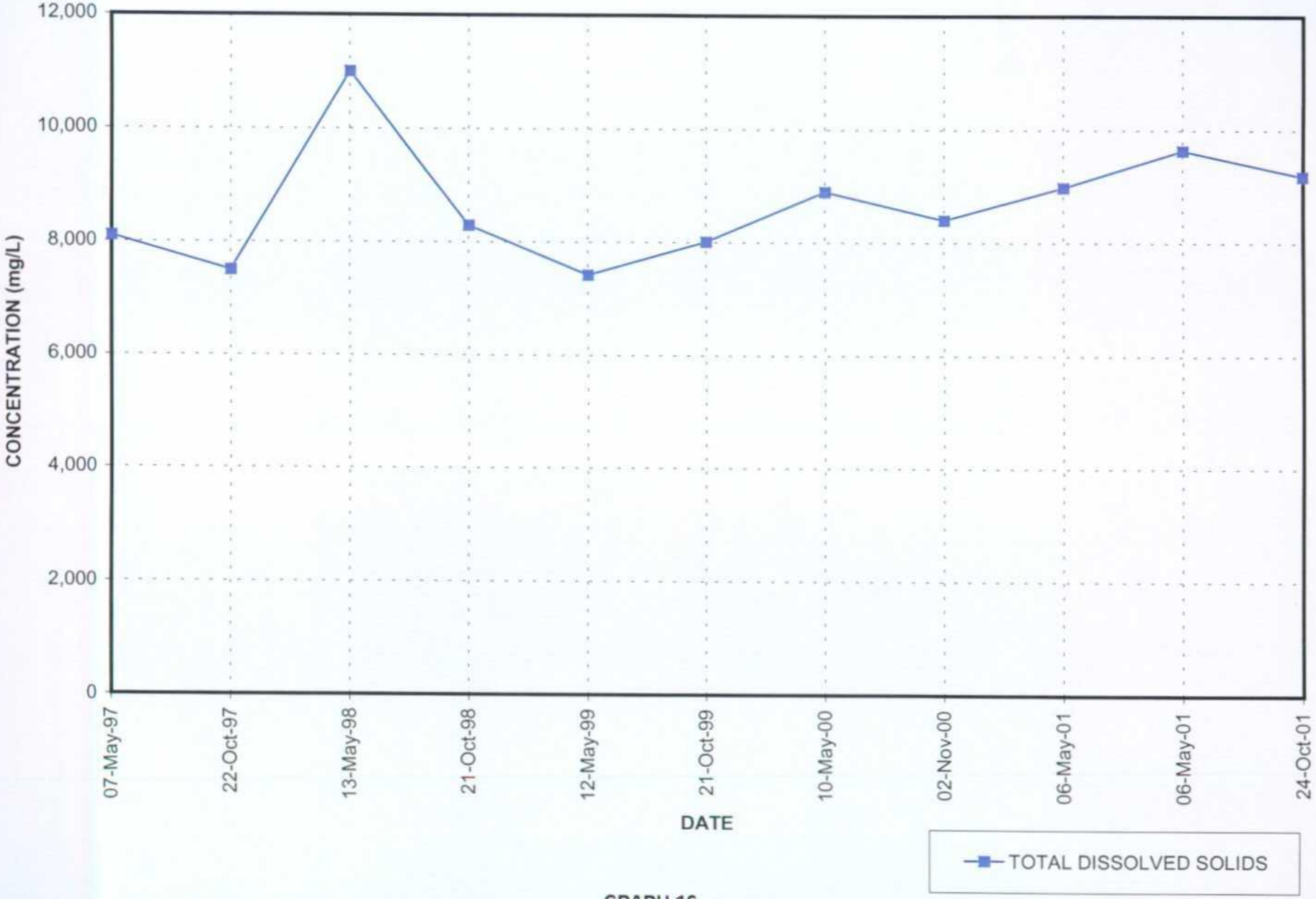
MONITOR WELL ACW-06



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

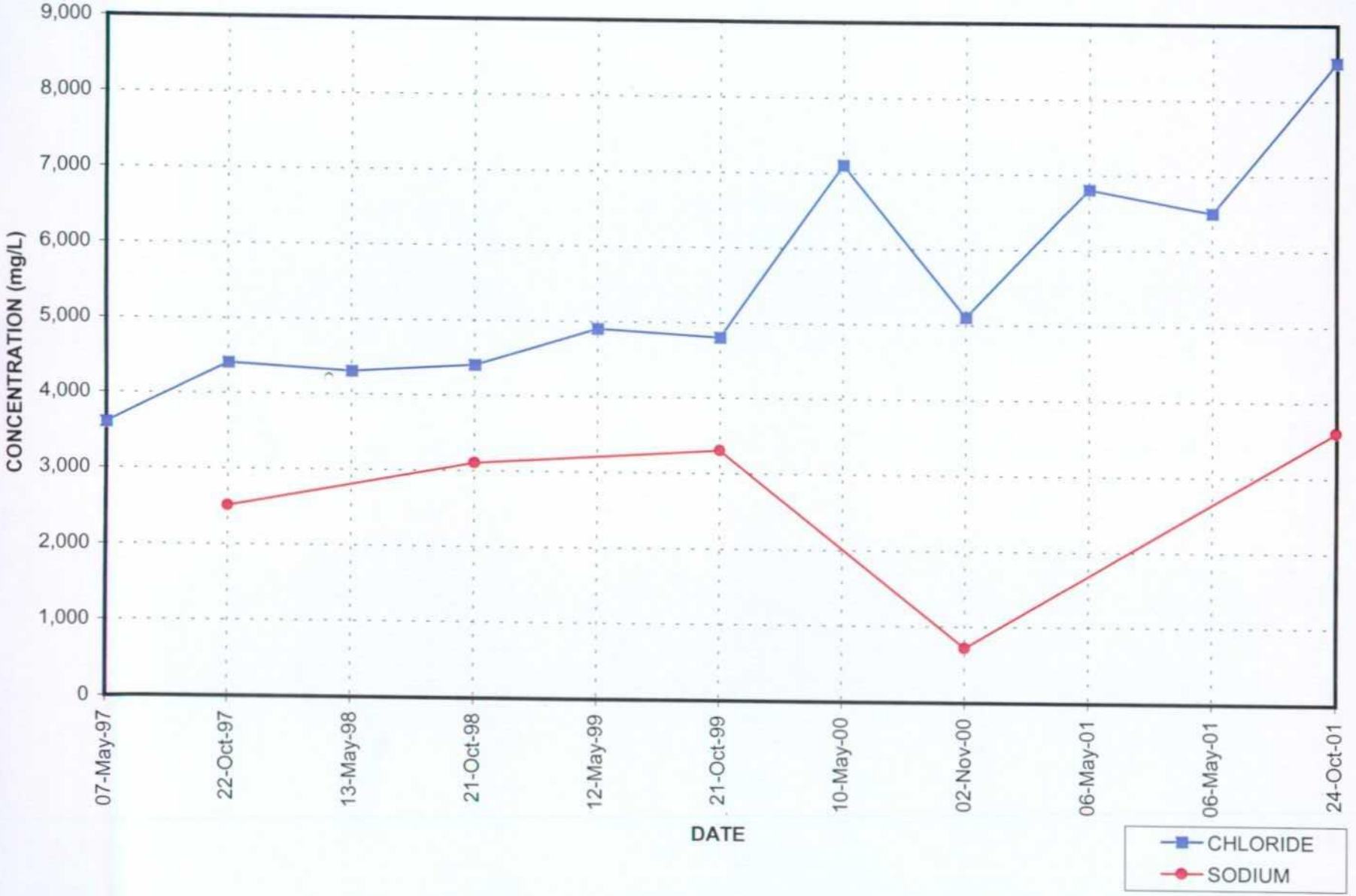
GRAPH 15

MONITOR WELL ACW-07



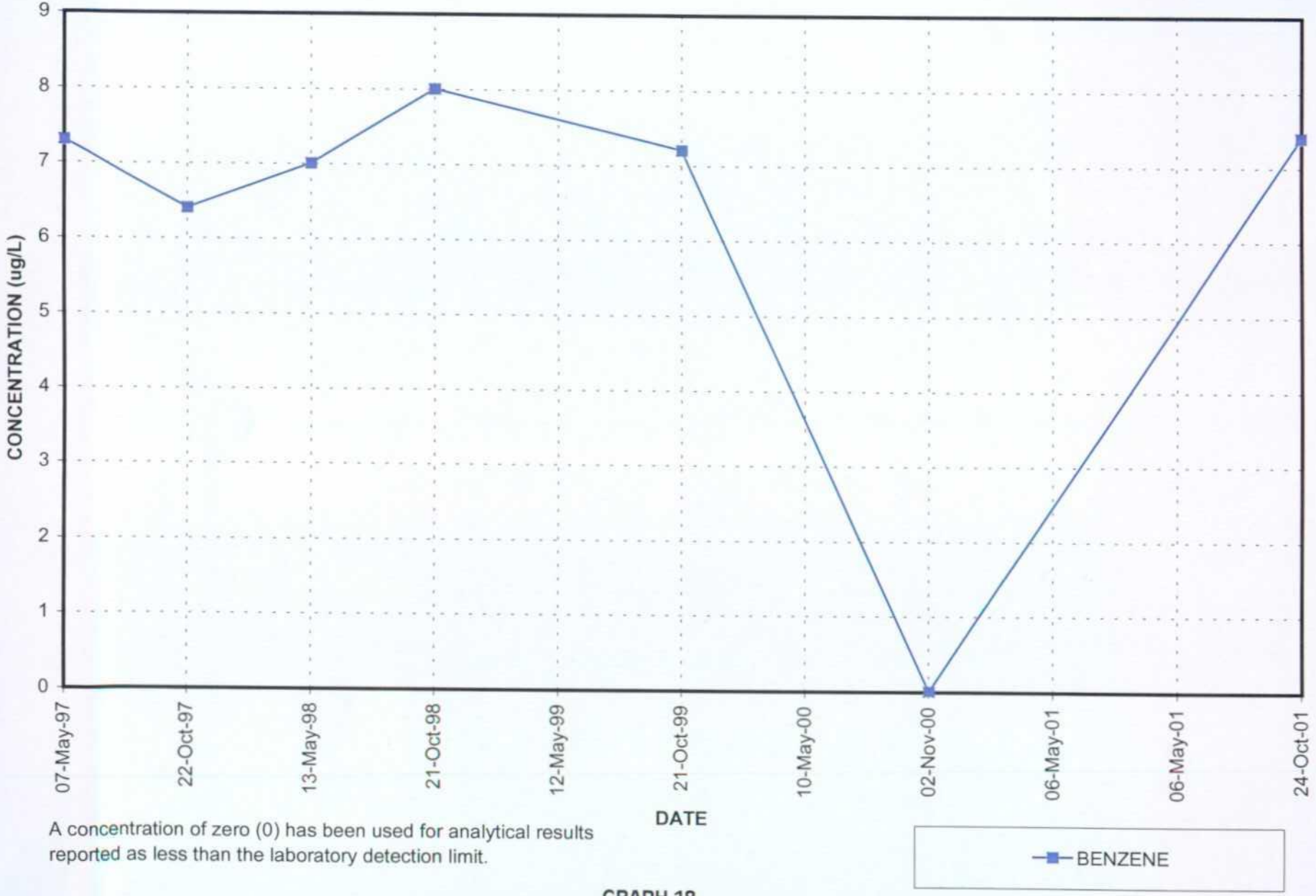
GRAPH 16

MONITOR WELL ACW-07



GRAPH 17

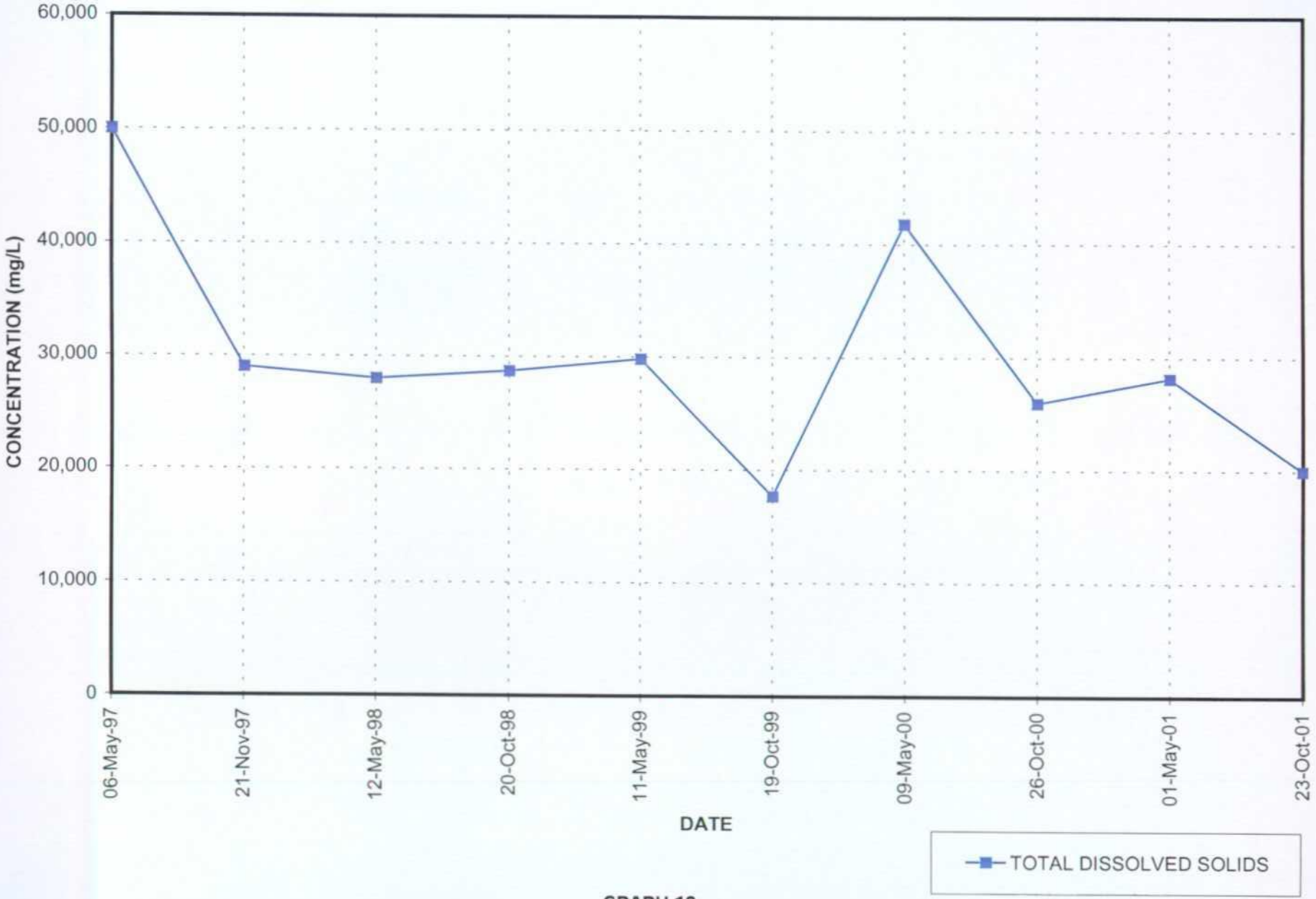
MONITOR WELL ACW-07



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 18

MONITOR WELL ACW-08



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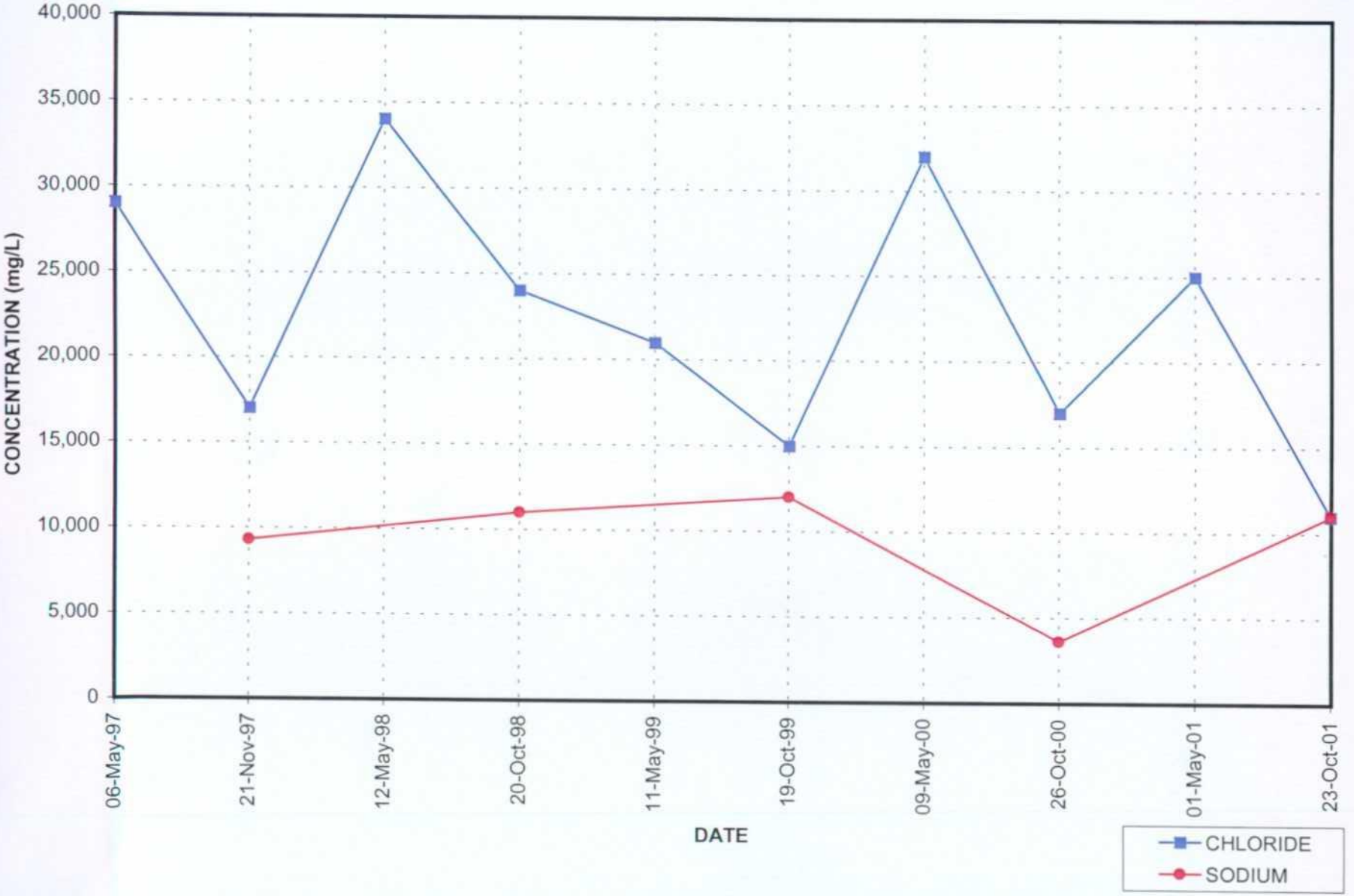

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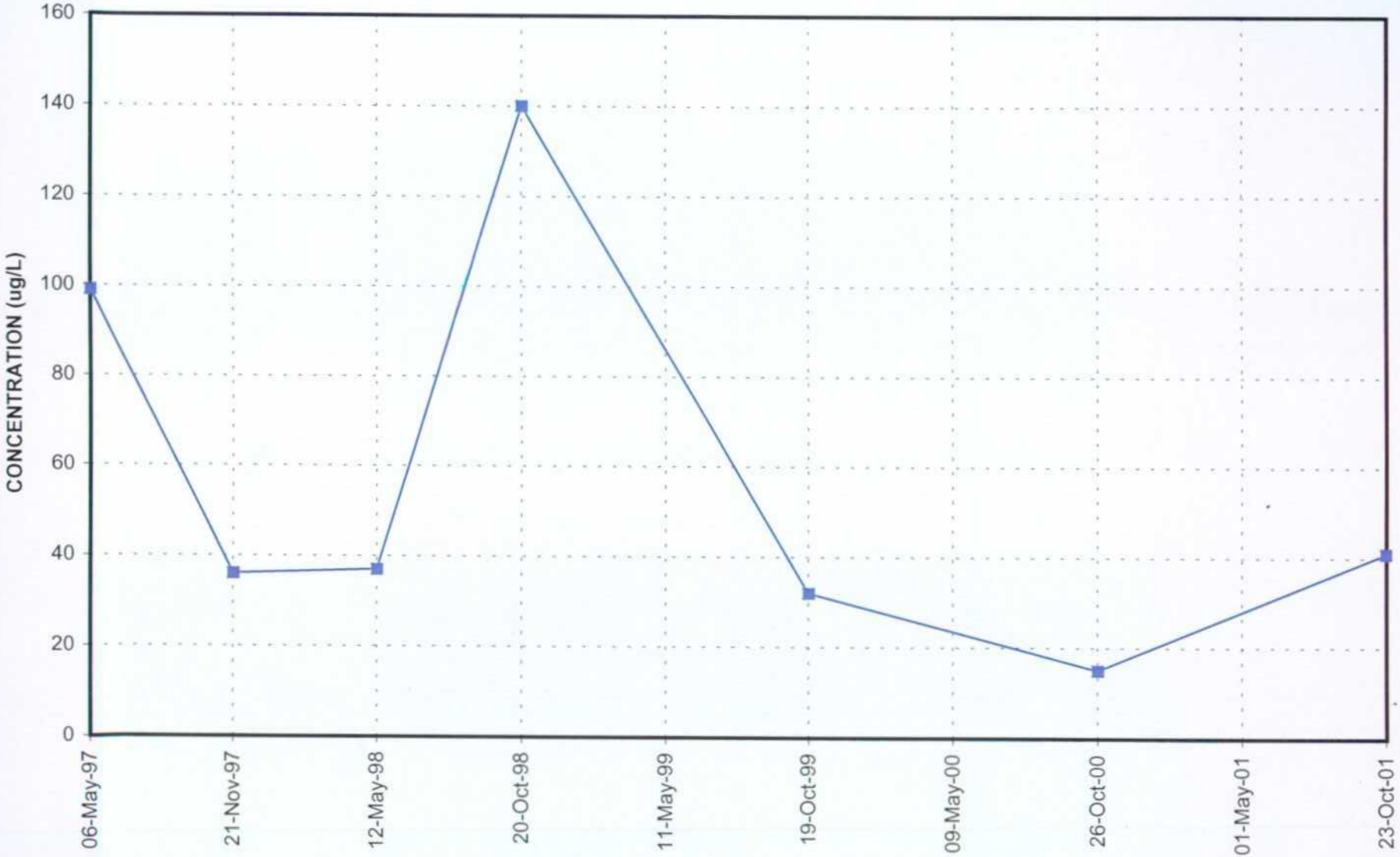
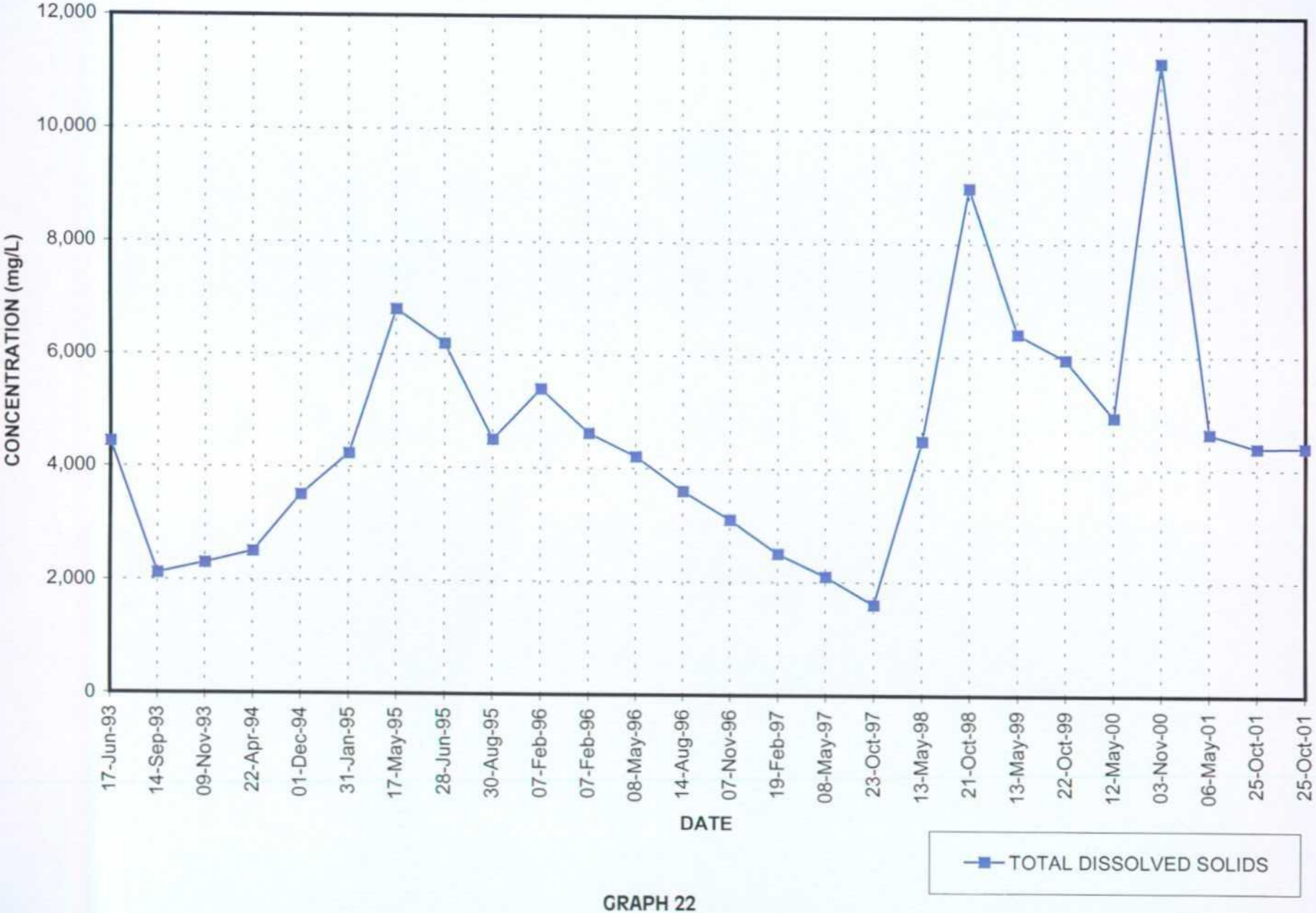
MONITOR WELL ACW-08



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 21

MONITOR WELL ACW-09



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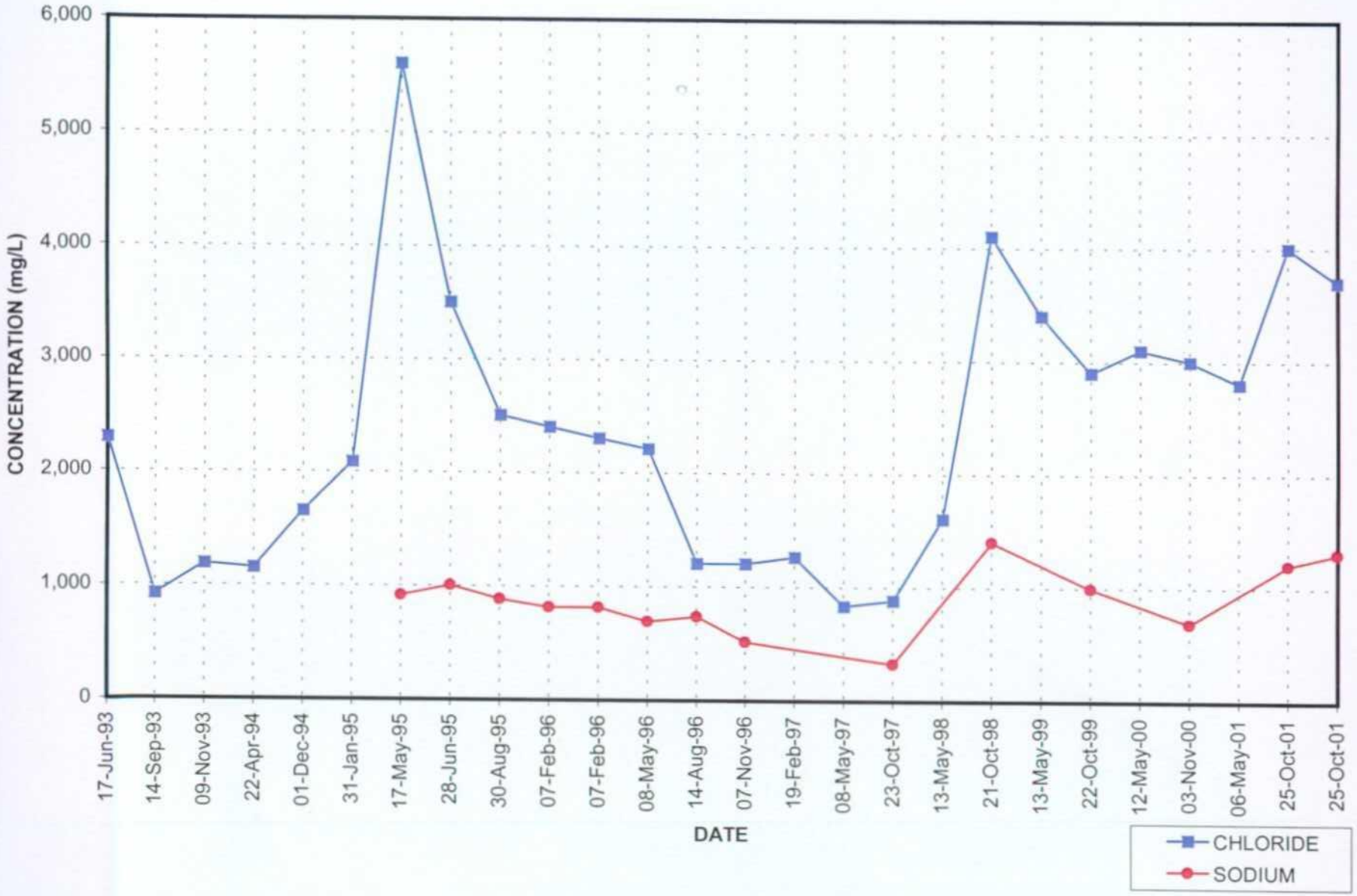

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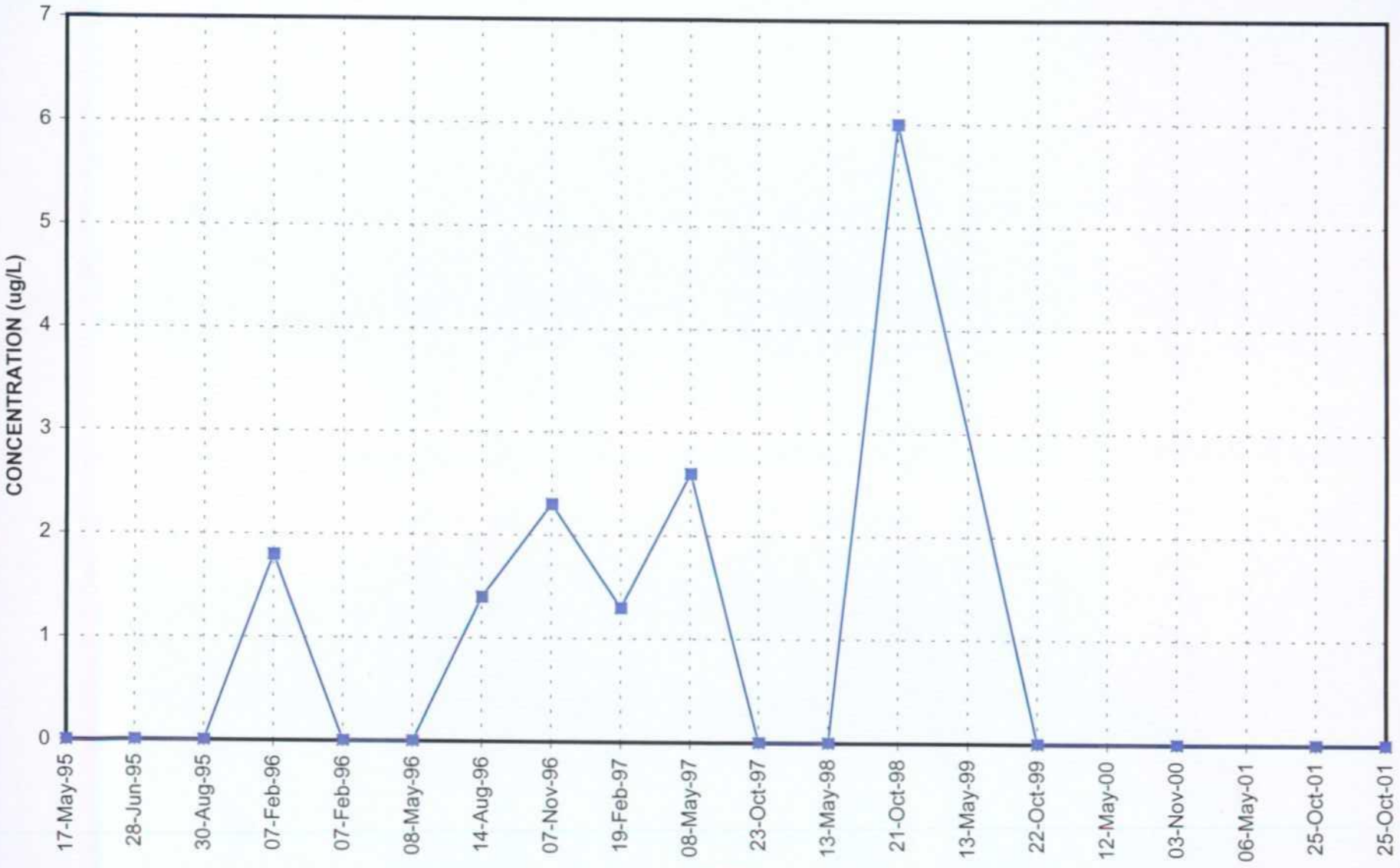
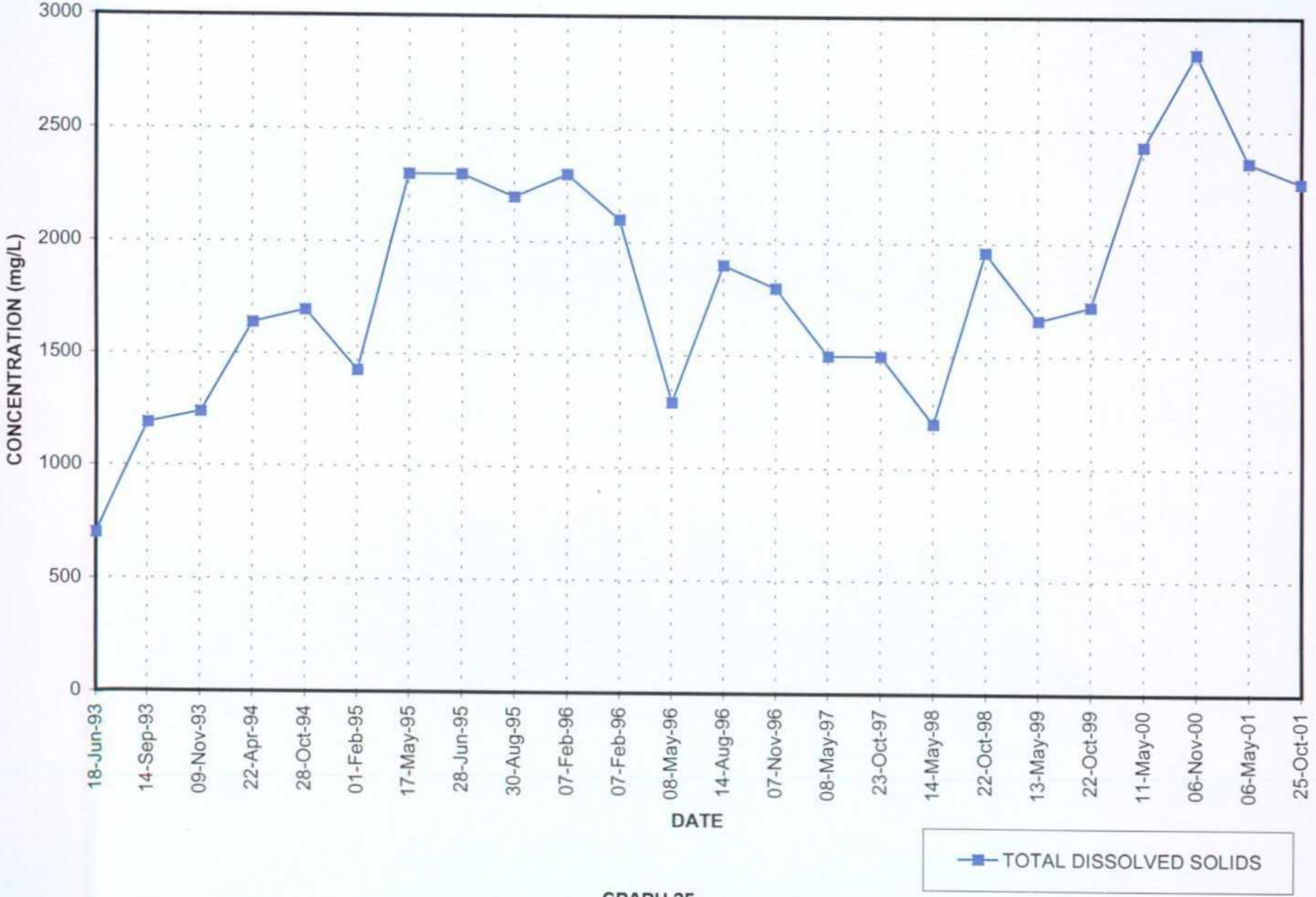


A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 24

MONITOR WELL ACW-10



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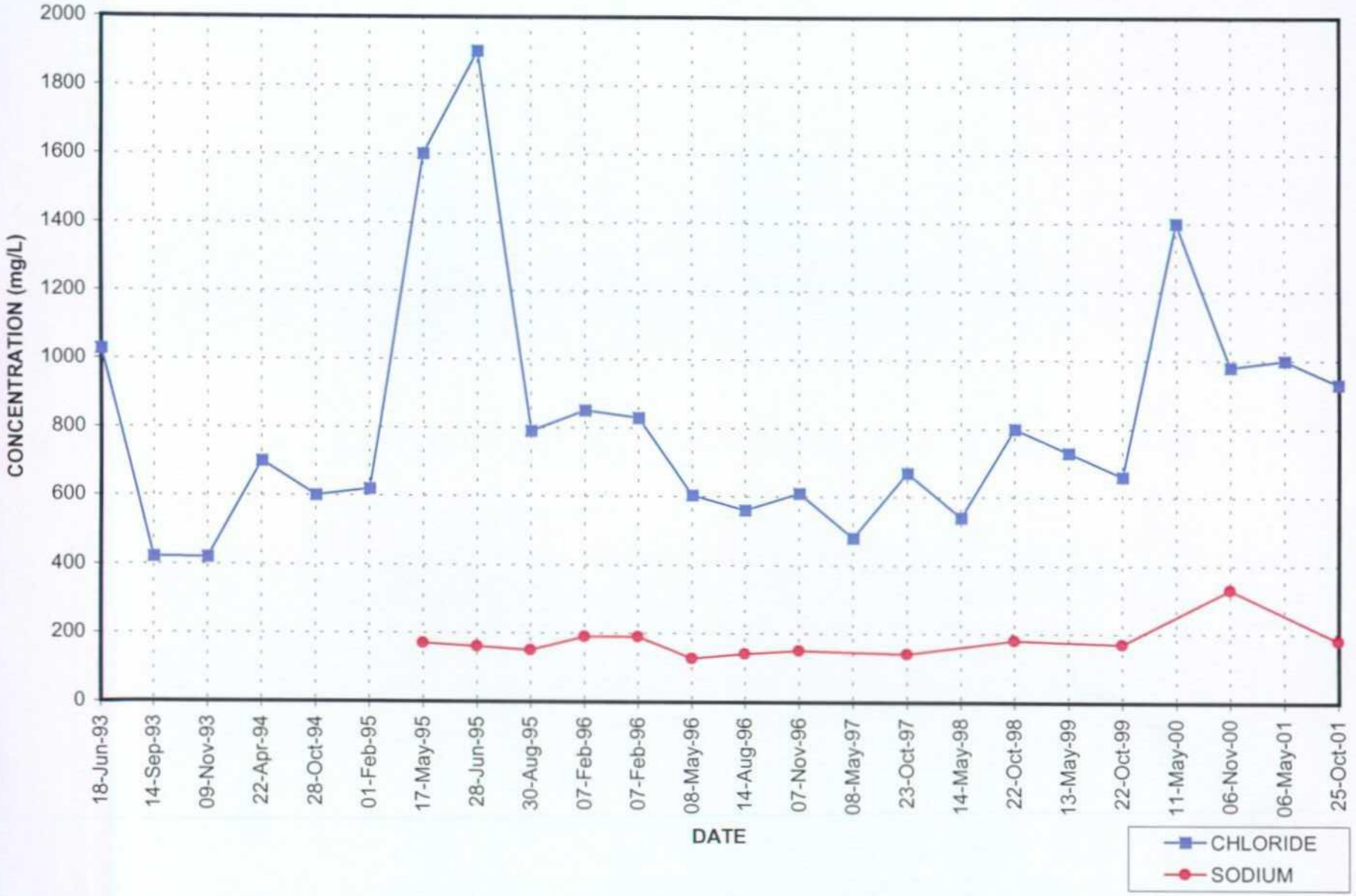
MONITOR WELL ACW-10



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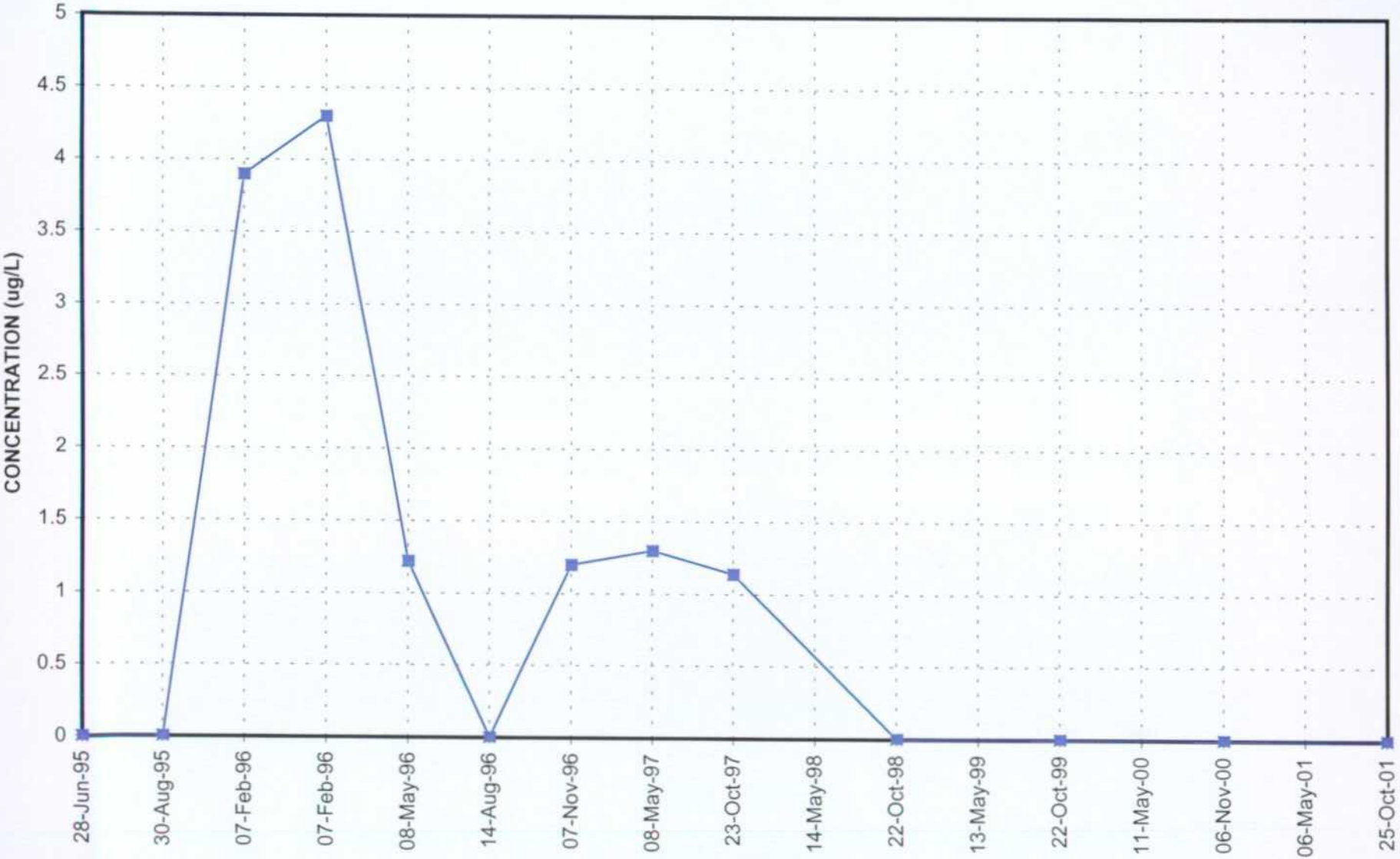
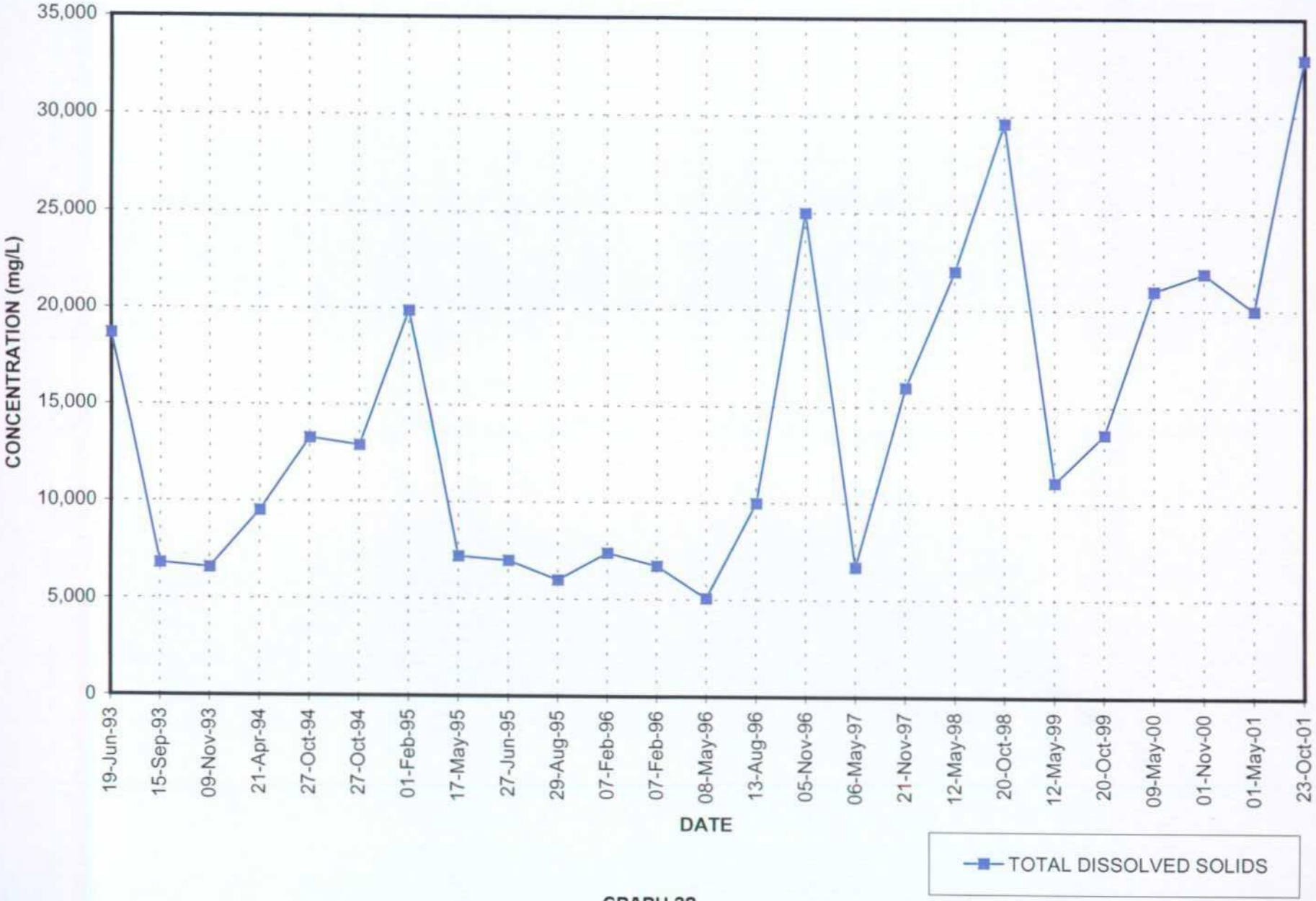
MONITOR WELL ACW-10



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 27

MONITOR WELL ACW-11



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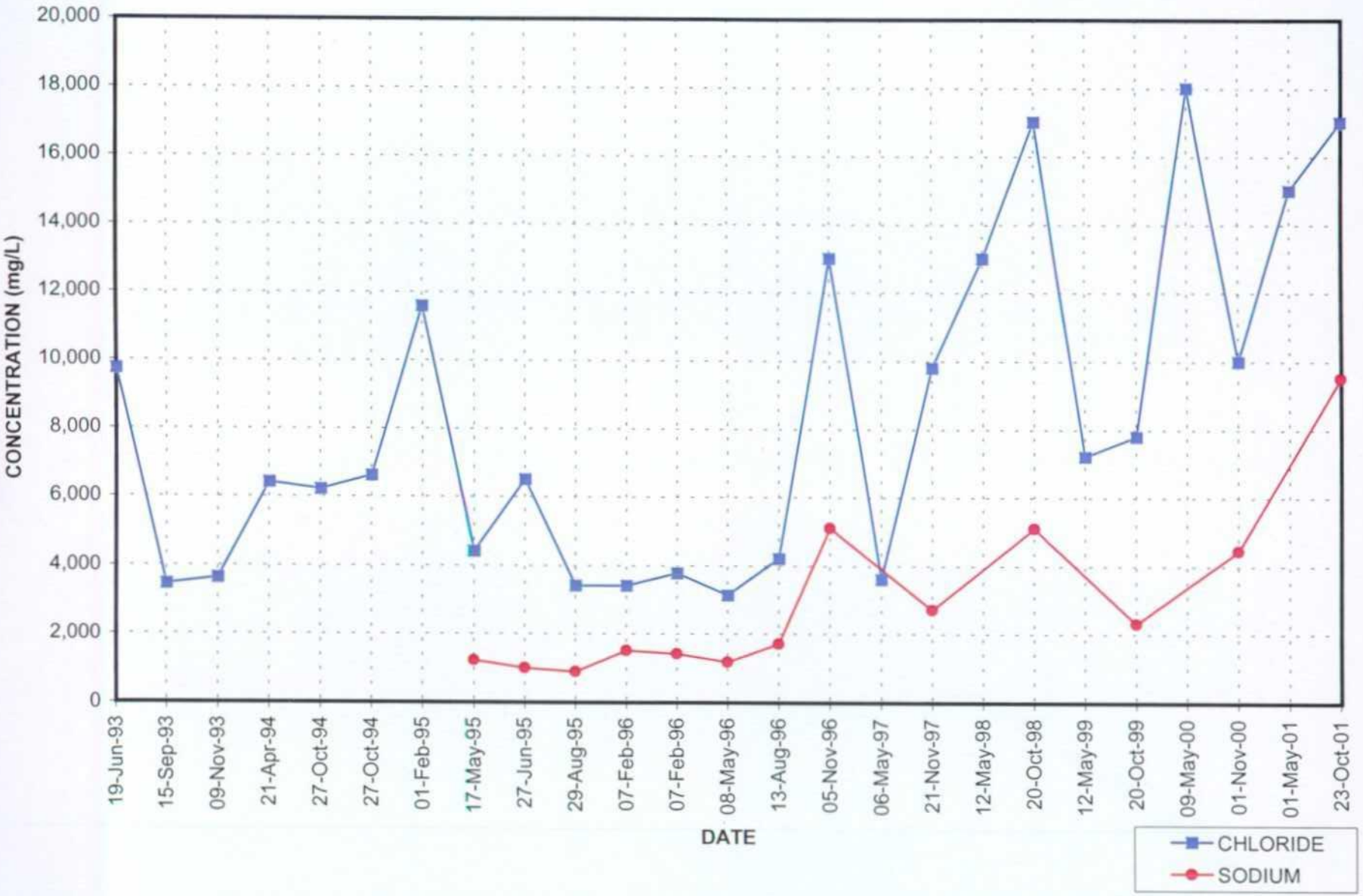
MONITOR WELL ACW-11



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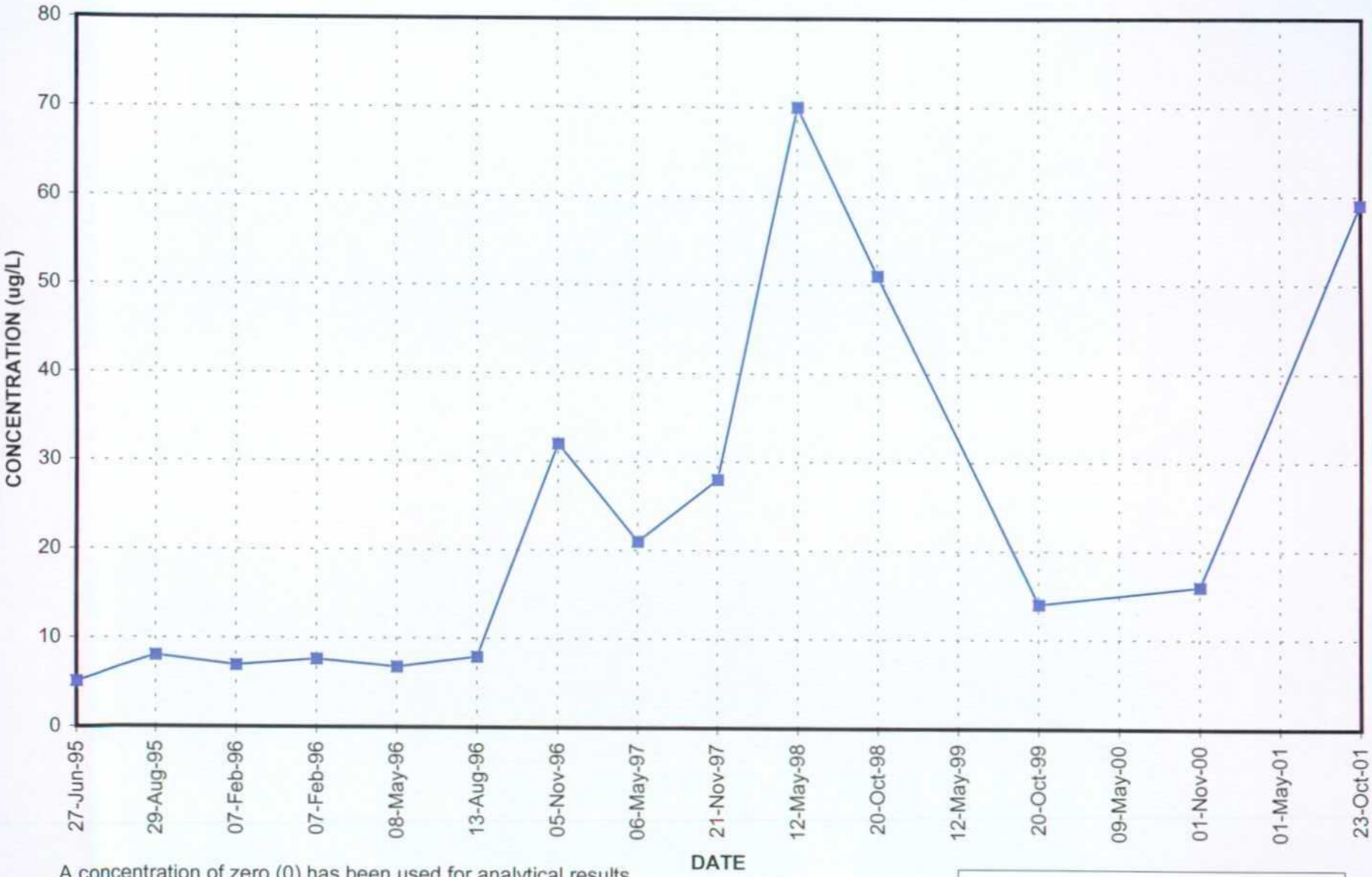
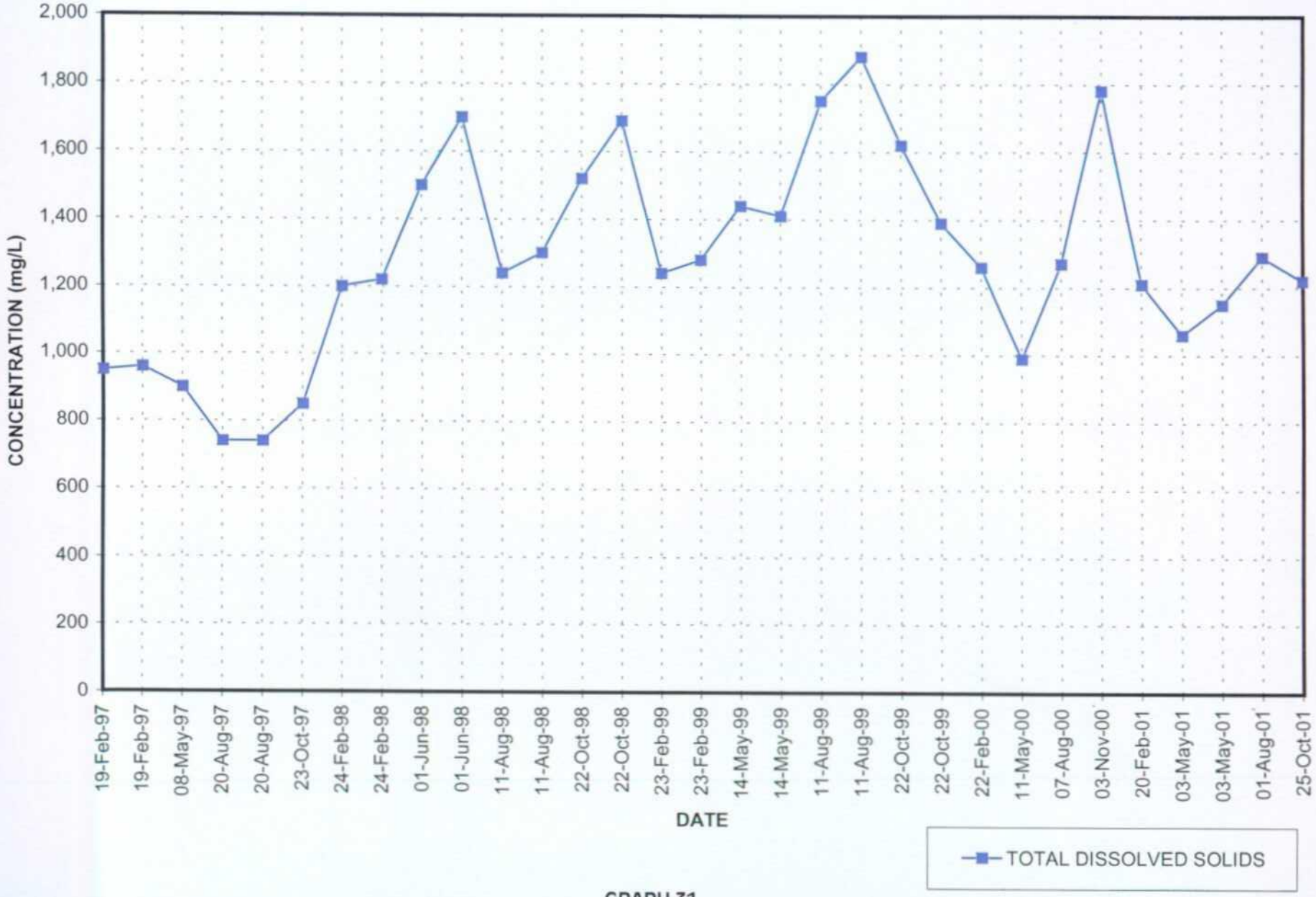
MONITOR WELL ACW-11



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

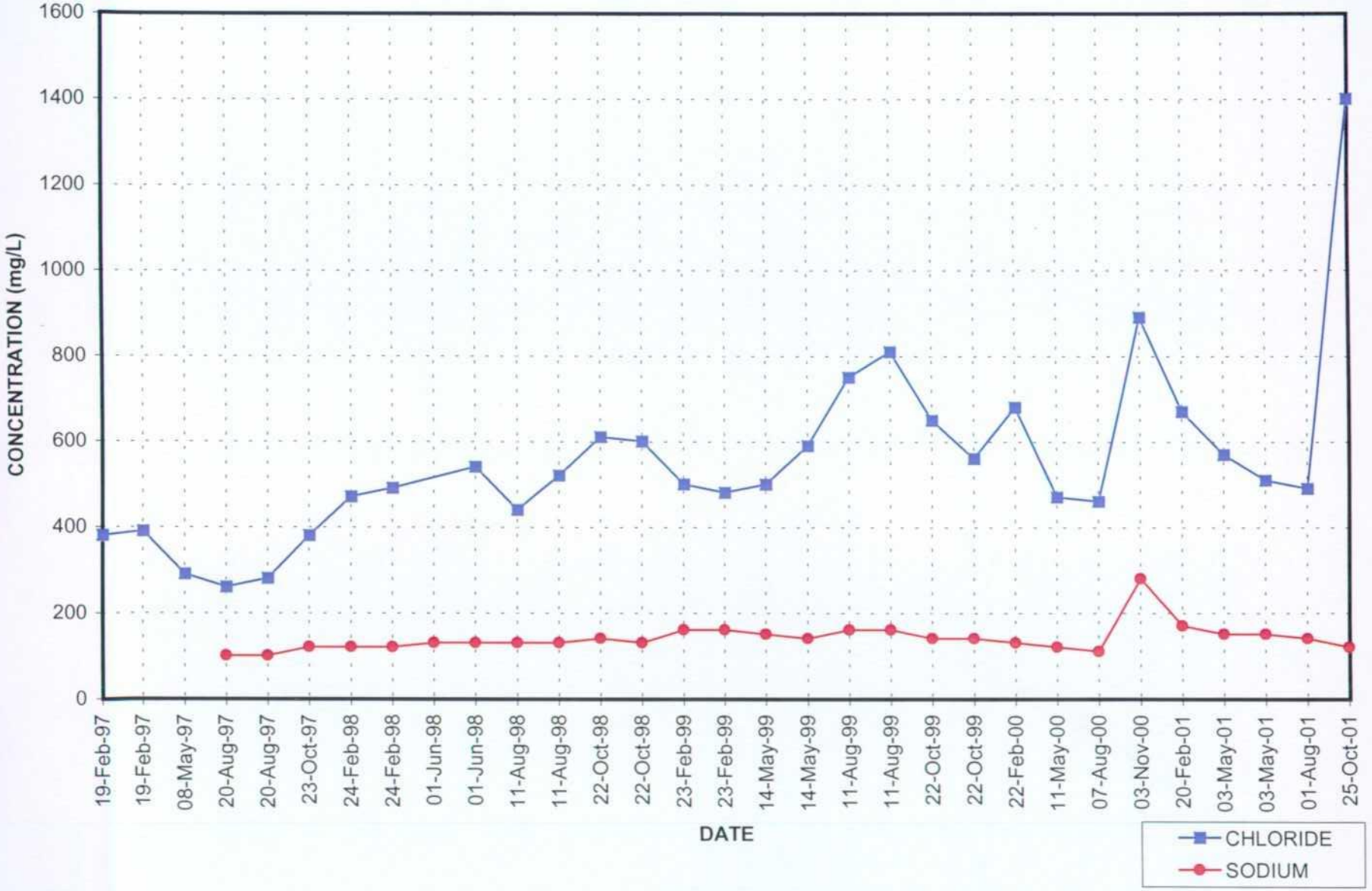
GRAPH 30

MONITOR WELL ACW-12



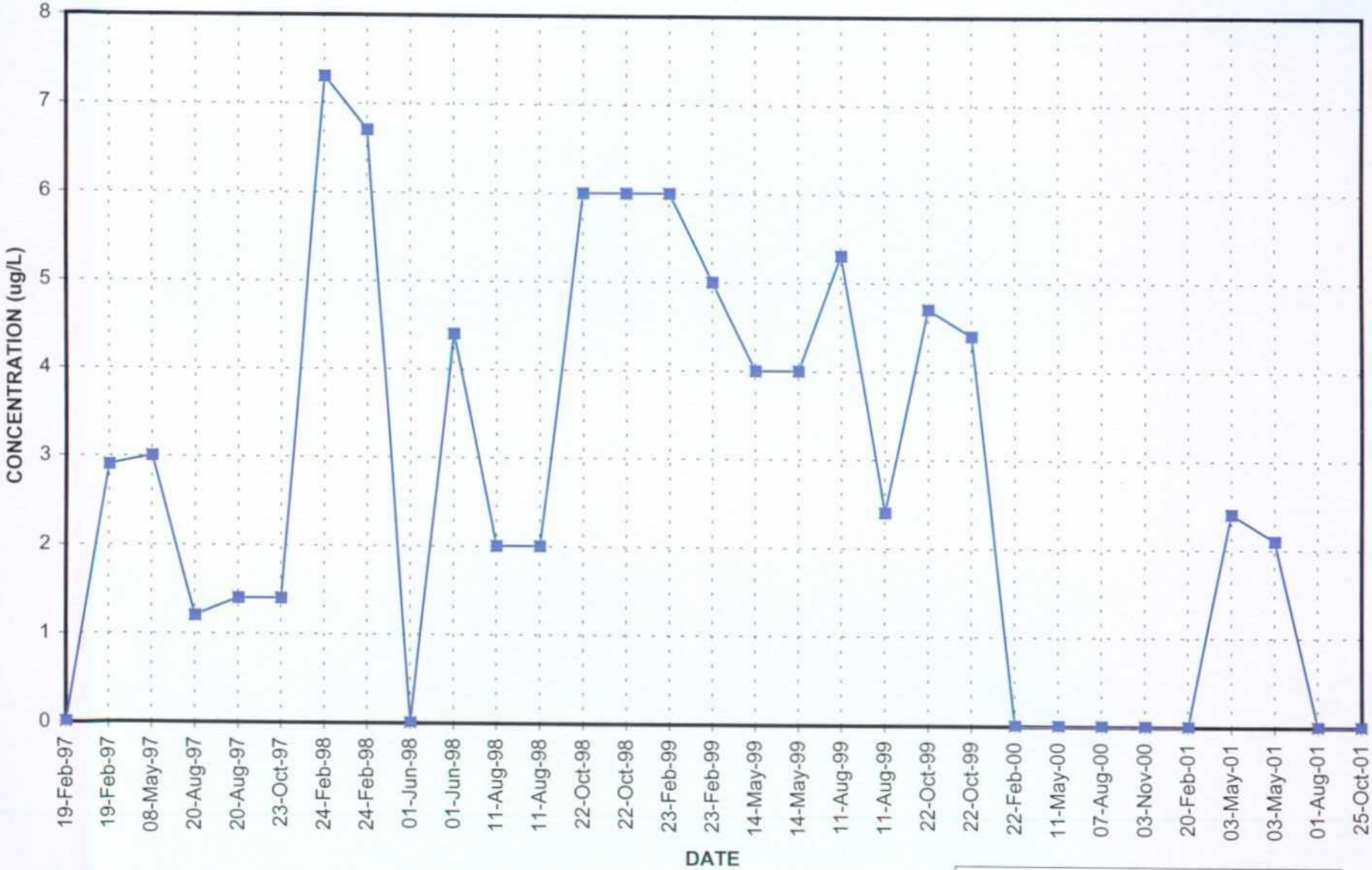
GRAPH 31

MONITOR WELL ACW-12



GRAPH 32

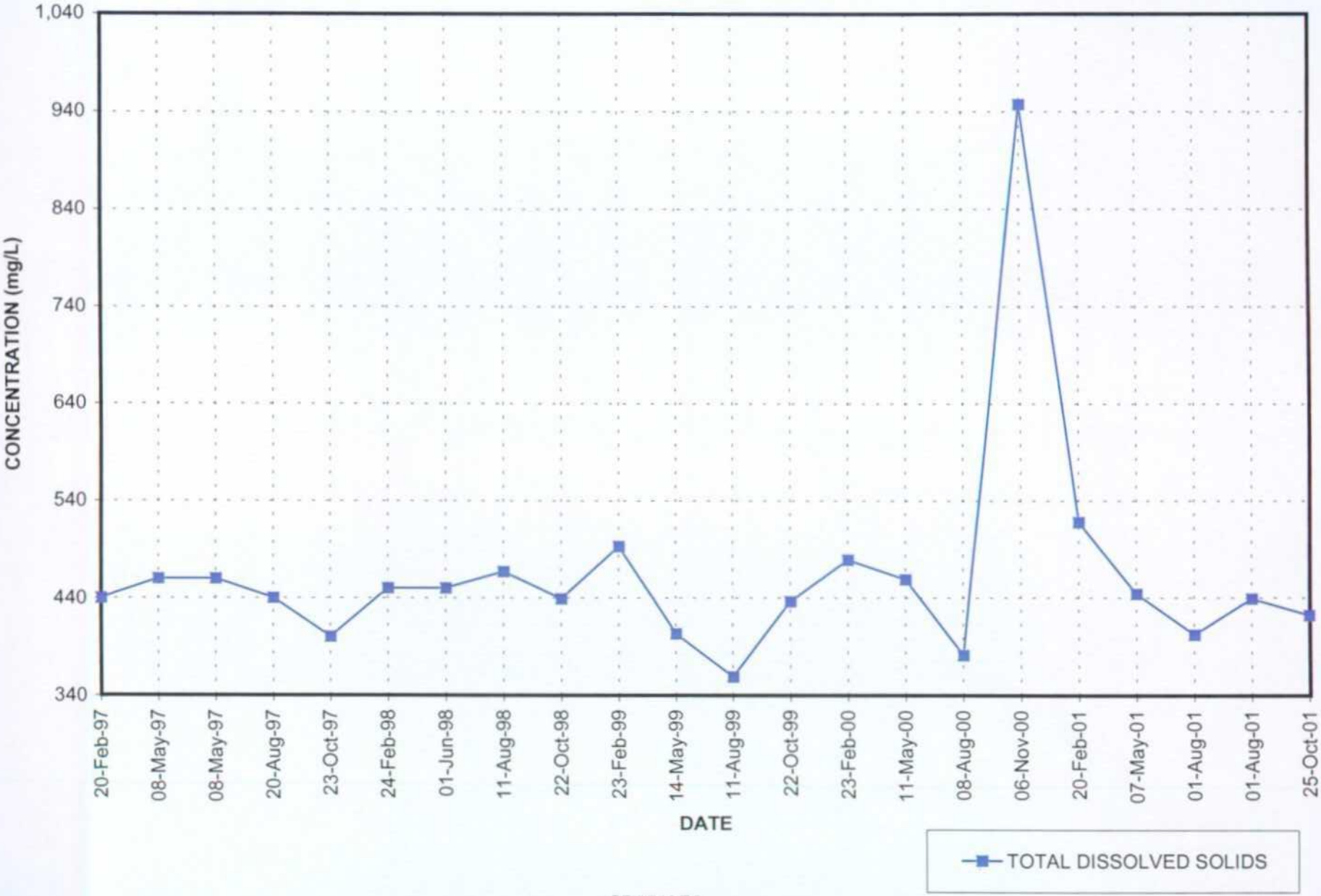
MONITOR WELL ACW-12



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

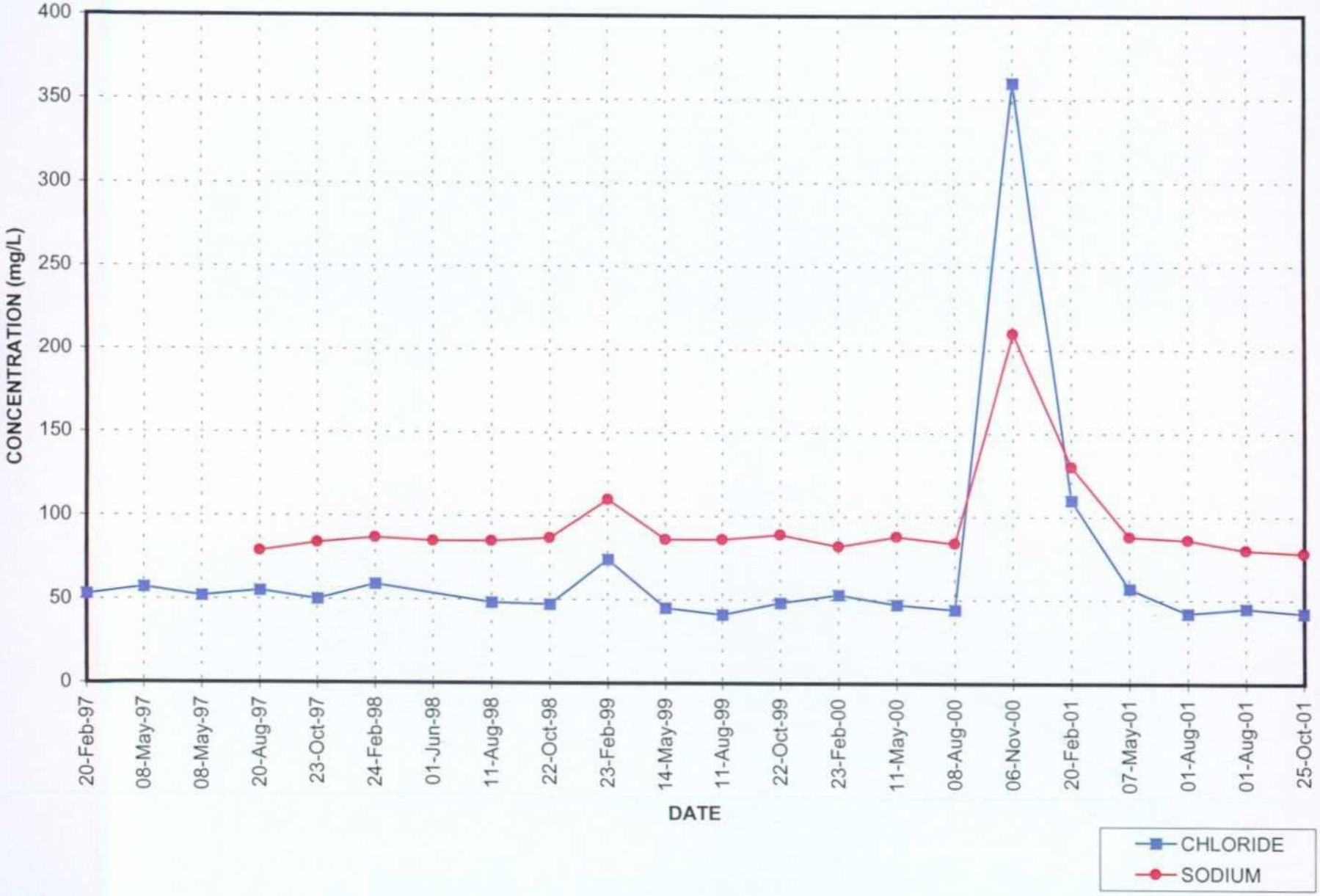
GRAPH 33

MONITOR WELL ACW-13



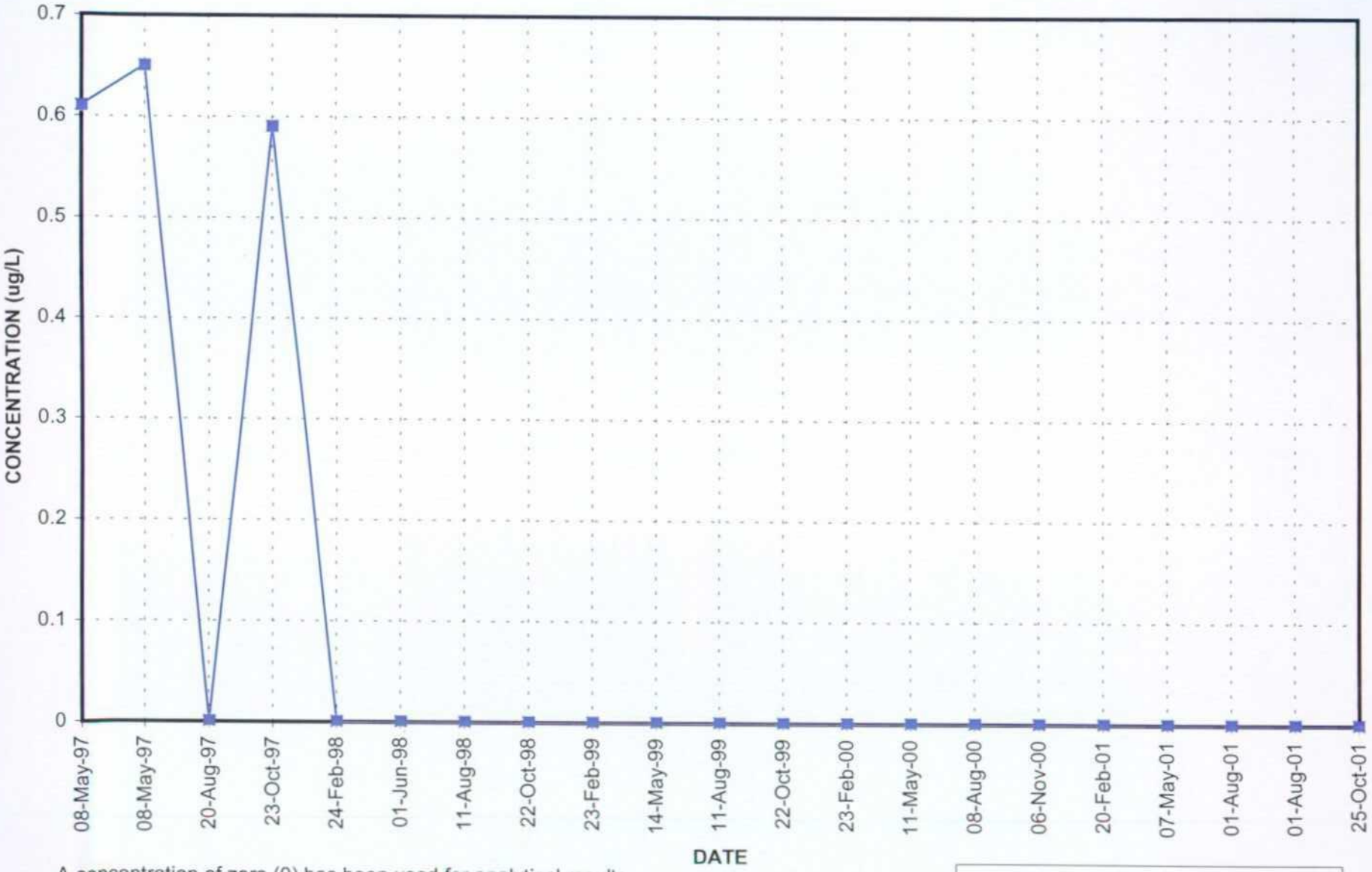
GRAPH 34

MONITOR WELL ACW-13



GRAPH 35

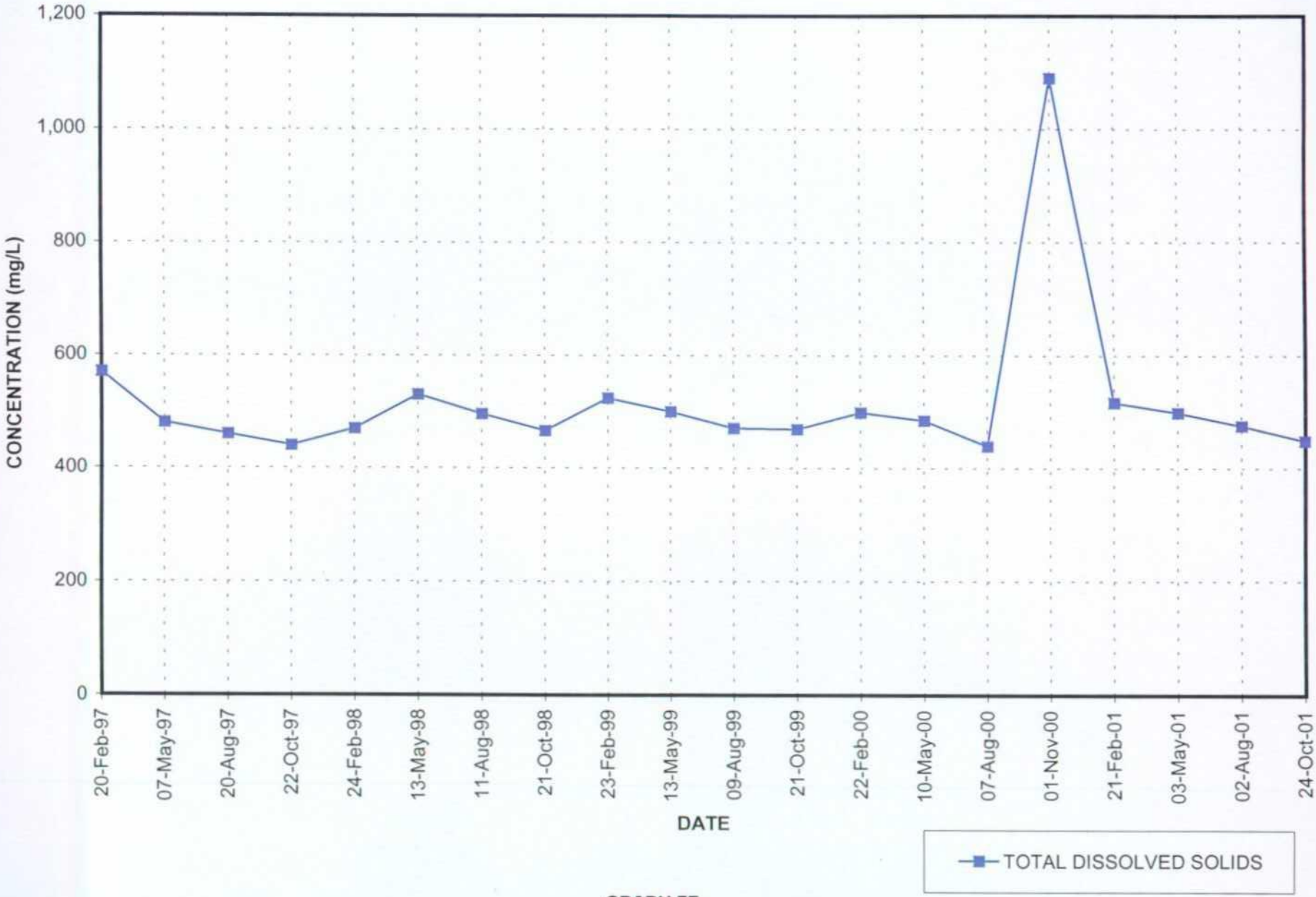
MONITOR WELL ACW-13



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

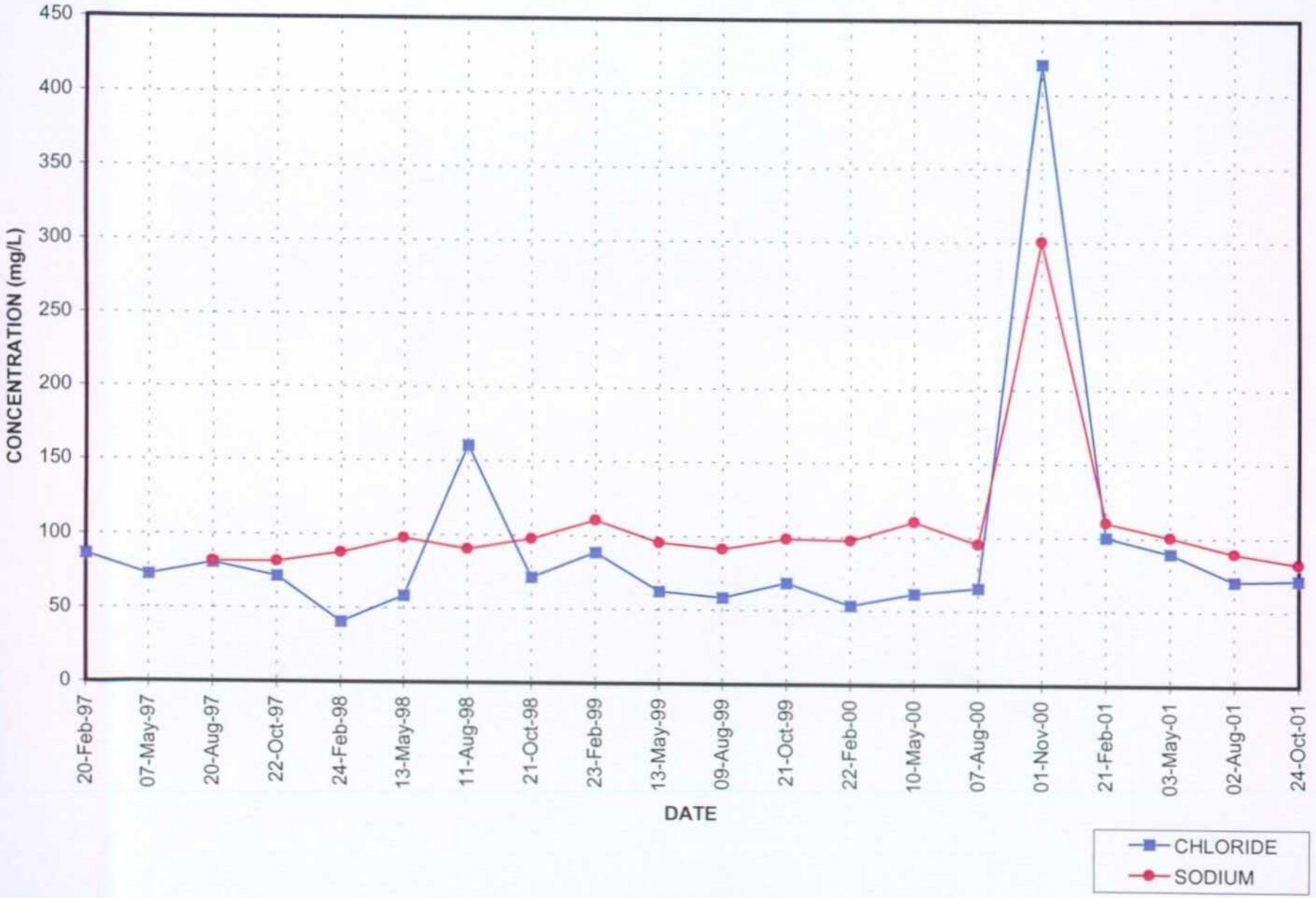
GRAPH 36

MONITOR WELL ACW-14



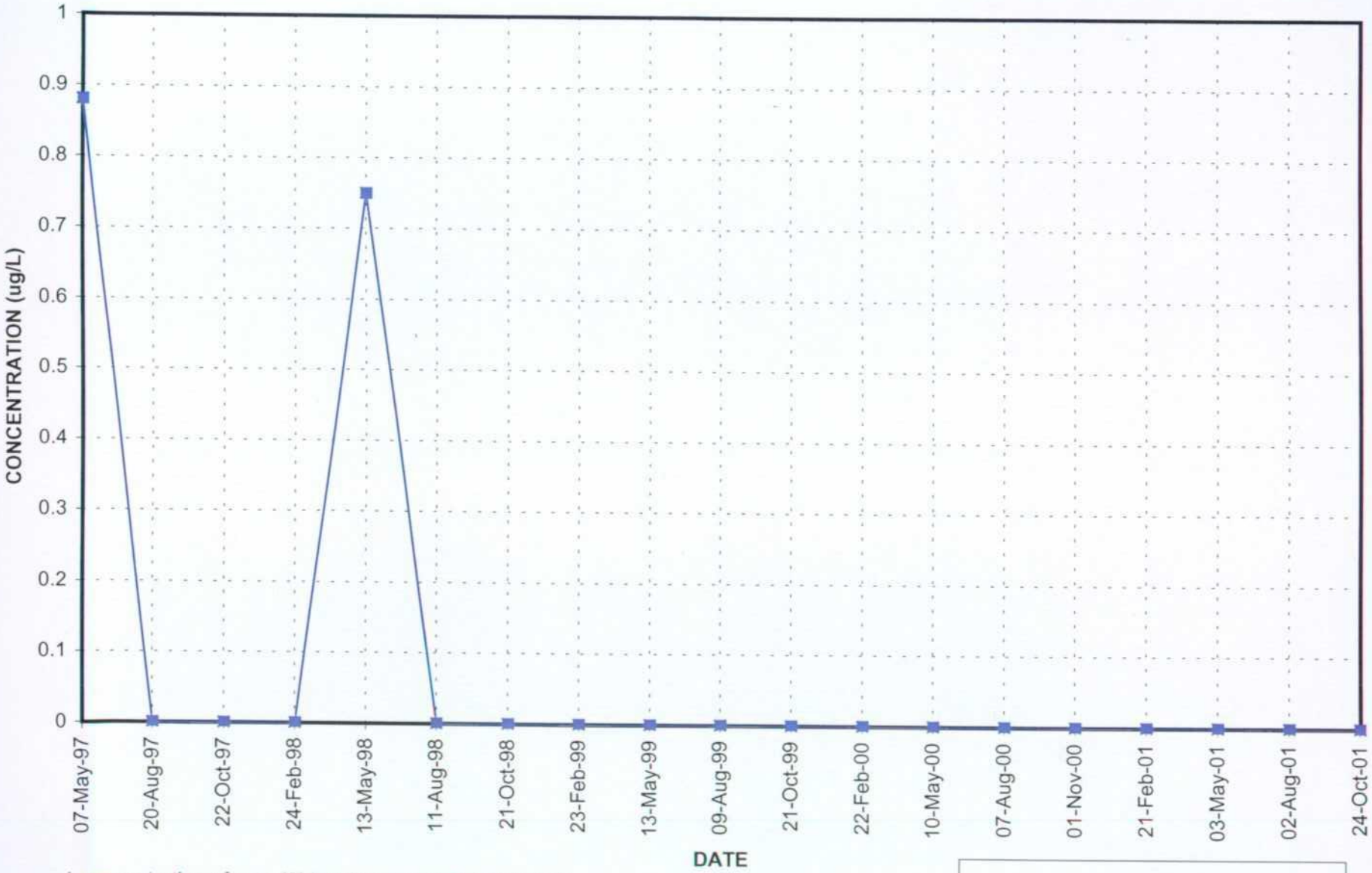
GRAPH 37

MONITOR WELL ACW-14



GRAPH 38

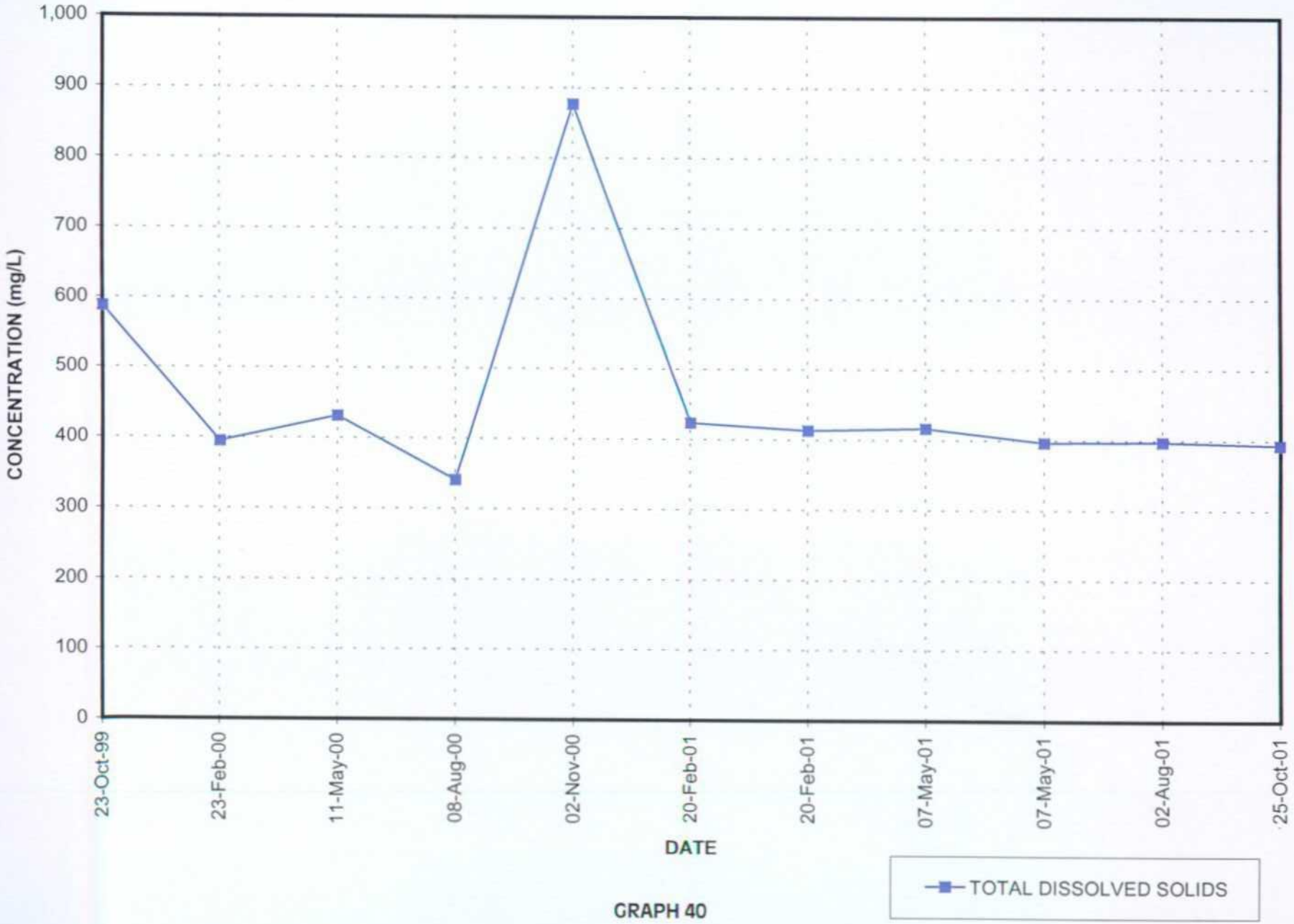
MONITOR WELL ACW-14



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

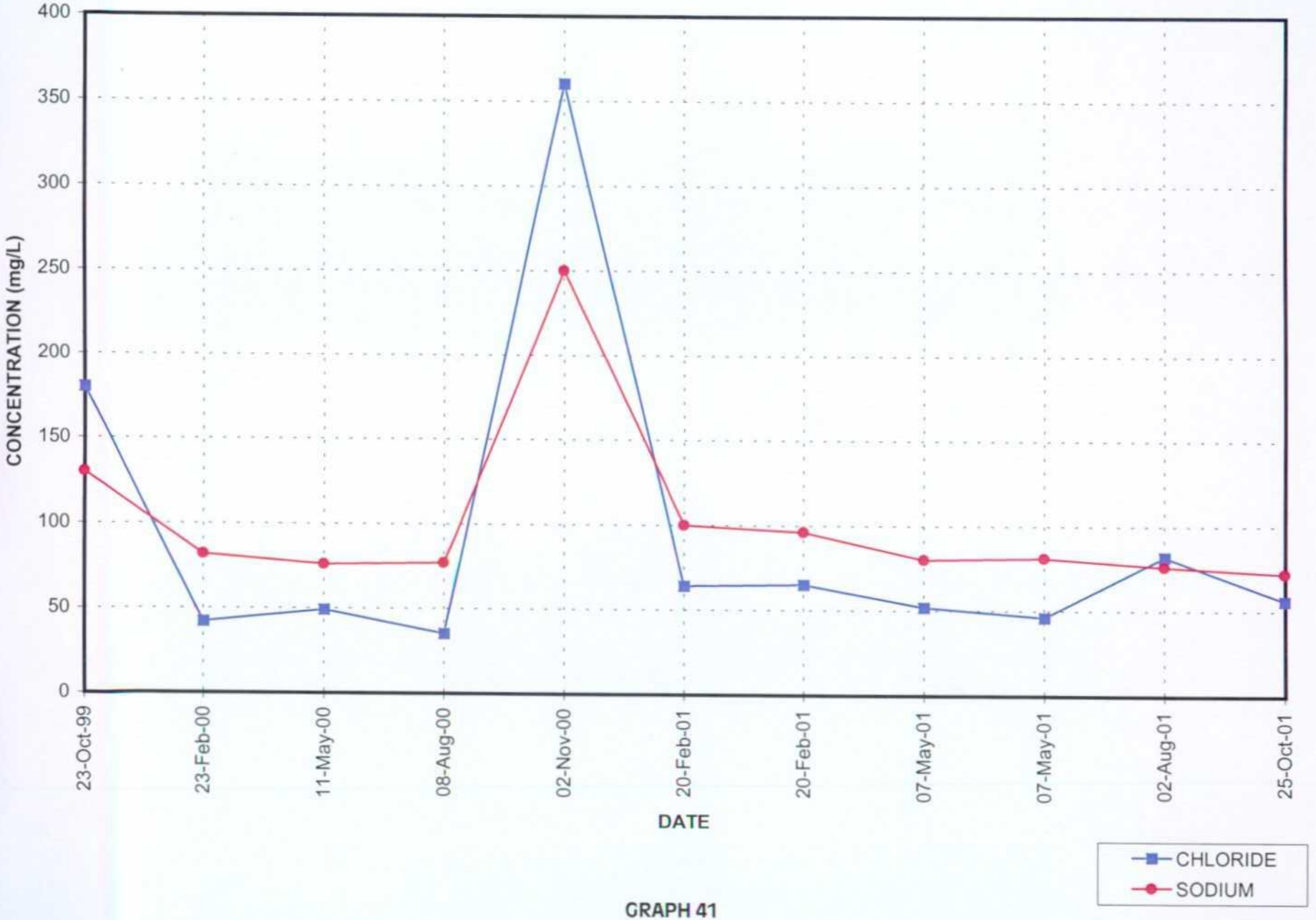
GRAPH 39

MONITOR WELL ACW-15



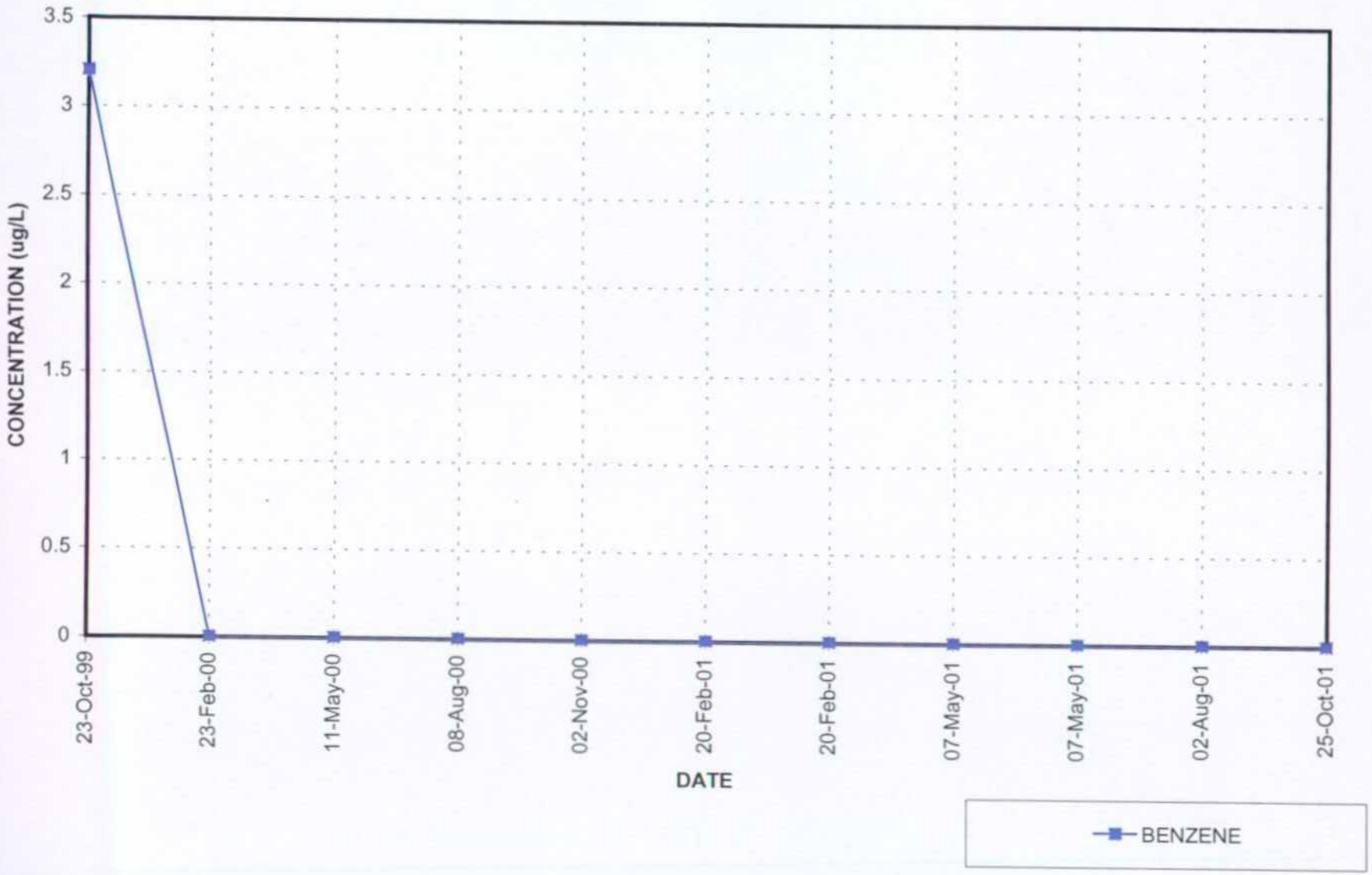
GRAPH 40

MONITOR WELL ACW-15



GRAPH 41

MONITOR WELL ACW-15



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 42

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORTS FOR GROUNDWATER SAMPLES COLLECTED DURING 2001

JAL #4 PLANT

	MONITOR WELL	INSTALLED BY	DATE INSTALLED	SCREENED INT	WELL DEPTH TD FEET	BORING RECORD
	ENSR-1	ENSR/DALLAS*	7/89	123-148	153	CONST DWG
	ENSR-2	↓	↓	121-146	151	↓
	ENSR-3			123-148	151	
NW CORNER OF PLT	EPNG-1 SUP					
SOUTH OF ENG-6	EPNG-5 SUP					
SOUTH OF PLANT	EPNG-6 SUP					
NW OF PLANT	EPNG-12 SUP			175-234		NO
	ACW-1	KW BROWN	11/12/90	110-130	135.4	YES
	ACW-2	↓	11/14/90	106-126	131.4	YES
	ACW-2a		12/10/90	98-118	123.0	YES
	ACW-3		11/15/90	112-132	137.4	YES
	PTP-1		11/13/90	110-130	135.4	YES
	ACW-4	BURLINGTON ENV.	7/8/92	154-169	169	YES
	ACW-5	↓	7/10/92	105-115	115	↓
	ACW-6		7/15/92	110-120	120	
	ACW-7		7/14/92	105-115	115	
	ACW-8	BURLINGTON ENV.	6/15/93	140-160	160	YES
	ACW-9	↓	6/16/93	140-160	160	↓
	ACW-10		6/17/93	140-160	160	
	ACW-11		6/18/93	140-160	160	
	ACW-12	PHILLIPS ENV.	DESTROYED 10/95	150-170	170	NO
	ACW-13	↓	AND	153-173	173	↓
(ACW-15)	ACW-14		9/96	157-177	177	
(ACW-14)	RW-1	PHILLIPS ENV.	6/23/96	109-179	180	CONST DWG
(ACW-16)	RW-2	PHILLIPS ENV.	6/30/96	105-175	177	↓
(AW-17)	ACW-15	HIGHLANDER ENV.	10/20/99	150-170	169	YES

TAKEN FROM EPNG TABLES

FINAL GW MONITORING WELL COMPLETIONS

* ENSR/DALLAS - FORMERLY ERT

☆ ACW-2 HAD INSUFFICIENT YIELD TO DEVELOP (REPLACED BY ACW-2a)

● ACW DENOTES AQUIFER CHARACTERISATION WELL

TOPS

SAMPLE KEY

SAMPLE NUMBER: M01-0009 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 pump blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:55 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0010 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Production well - Dooms
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:30 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0011 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:20 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0012 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:30 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0013 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:40 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

ORIGINAL

SAMPLE NUMBER: M01-0014 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #17
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:25 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0015 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #17 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:25 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0016 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Production well OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:50 SAMPLE DATE: 02/20/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0017 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:56 SAMPLE DATE: 02/21/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0018 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank after sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:25 SAMPLE DATE: 02/21/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0019 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 02/21/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0020 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Field Blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:35 SAMPLE DATE: 02/21/2001
BY: Brisbin

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0102085

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 2/22/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

3/15/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M101-0009
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	36	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	12	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	11	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	23	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	220	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0012**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-02
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	ND	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	ND	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0011
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-03
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	190	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	68	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	11	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	31	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	170	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0013**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-04
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	48	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	16	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	7.5	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	34	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	130	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0014
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-05
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	40	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	14	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	8.6	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	31	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	100	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0015**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-06
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	38	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	13	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	7.5	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	31	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	96	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M101-0017**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-07
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	47	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	18	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	7.2	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	33	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	110	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0018**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-08
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	ND	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	ND	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0019
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-09
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	36	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	12	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	9.1	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	22	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	180	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0020**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-10
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	ND	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	ND	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0010**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-11
TEST:	**Cations by EPA 6010A**		
MATRIX:	*Aqueous*	ANALYST:	FKA - *Division*

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	46	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	15	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	4.8	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	35	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	67	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0016
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-12
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	67	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	20	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	5.8	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Silica	33	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01
Sodium	68	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010226SI-BLK

TEST:

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P1020851-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01
Potassium	ND	2. mg/L	1	EPA 6010	2/26/01	2/26/01
Sodium	ND	0.5 mg/L	1	EPA 6010	2/26/01	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0009
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	0.56		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	340		10.	100	EPA 300.0	mg/L	2/28/01
Fluoride	1.7		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	140		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	8.17	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.5		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	1380		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	52		5.	50	EPA 300.0	mg/L	2/27/01
Total Dissolved Solids	736		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0012
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	6.28	Hr	2.	1	EPA 150.1	ph Units	2/22/01
pH Temperature	21.6		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	1.00		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0011
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	150		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	0.74		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	670		50.	500	EPA 300.0	mg/L	2/26/01
Fluoride	0.88		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	750		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	0.28		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.44	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.5		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	2230		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	140		2.	20	EPA 300.0	mg/L	3/7/01
Total Dissolved Solids	1210		30.	2	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0013
DATE SAMPLED: 2/20/01
NEL SAMPLE ID: P0102085-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	160		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	0.39		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	110		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	190		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	1.4		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.81	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.6		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	893		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	90		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	518		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0014
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	160		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	0.33		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	64		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	160		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	1.0		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.89	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.5		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	725		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	78		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	423		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0015
DATE SAMPLED: 2/20/01
NEL SAMPLE ID: P0102085-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	180		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	0.34		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	65		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	150		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	1.0		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.87	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.7		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	727		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	81		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	413		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0017
DATE SAMPLED: 2/21/01
NEL SAMPLE ID: P0102085-07

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	170			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	170		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	ND		2.	10	EPA 300.0	mg/L	2/22/01
Chloride	100		2.5	25	EPA 300.0	mg/L	2/26/01
Fluoride	1.6		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	190		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	2.1		1.	10	EPA 300.0	mg/L-N	2/22/01
pH	7.78	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.7		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	883		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	100		2.5	25	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	517		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0018
DATE SAMPLED: 2/21/01
NEL SAMPLE ID: P0102085-08

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	2/28/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	6.18	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.8		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	2.00		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0019
DATE SAMPLED: 2/21/01
NEL SAMPLE ID: P0102085-09

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity, Total as CaCO3	150		25.	1	SM 2320 B	mg/L	3/1/01
Bromide	0.53		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	240		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	1.8		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	140		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	0.19		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	8.24	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	21.9		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	1120		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	52		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	592		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0020
PROJECT ID:	JAL #4	DATE SAMPLED:	2.21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-10

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	3/1/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	6.14	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	22.0		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	1.0		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	2/22/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0010
PROJECT ID:	JAL #4	DATE SAMPLED:	2 20.01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-11

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	190			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity, Total as CaCO3	190		25.	1	SM 2320 B	mg/L	3/1/01
Bromide	0.35		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	33		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	0.85		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	180		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	1.1		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.75	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	23.0		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	619		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	66		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	372		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0016
DATE SAMPLED: 2/20/01
NEL SAMPLE ID: P0102085-12

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	3/1/01
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	3/1/01
Bromide	0.57		0.2	1	EPA 300.0	mg/L	2/22/01
Chloride	130		5.	50	EPA 300.0	mg/L	2/26/01
Fluoride	0.99		0.4	1	SM 4500-F C	mg/L	2/22/01
Hardness, Total (as CaCO3)	250		2.	1	EPA 200.7	mg/L	2/26/01
Nitrate, as N	0.70		0.1	1	EPA 300.0	mg/L-N	2/22/01
pH	7.83	Hr	2.	1	EPA 150.1	pH Units	2/22/01
pH Temperature	22.6		1.	1	EPA 150.1	°C	2/22/01
Specific Conductance	805		1.	1	SM 2510 B	µS/cm	2/22/01
Sulfate	52		5.	50	EPA 300.0	mg/L	2/26/01
Total Dissolved Solids	442		15.	1	SM 2540 C	mg/L	2/22/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222BR-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	2/22/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222cl-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/22/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222F2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	2/22/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222NO3-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	2/22/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222so4-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/22/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010222TDS2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	2/22/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010226CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010226SO4-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010227SO4-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/27/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010228ALK2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	2/28/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	2/28/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	2/28/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	2/28/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010228CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/28/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010301ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	3/1/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	3/1/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	3/1/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	3/1/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010307ASO4-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	3/7/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0009**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	94	80 - 120
Toluene-d8	95	80 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0012**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-02

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	104	80 - 120
Toluene-d8	97	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0011**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-03
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	106	80 - 120
Toluene-d8	100	80 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0013**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-04

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	80 - 120
Toluene-d8	101	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0014**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-05
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	80 - 120
Toluene-d8	108	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0015**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-06

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	80 - 120
Toluene-d8	99	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0017**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-07

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	106	80 - 120
Toluene-d8	101	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0018**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-08

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	80 - 120
Toluene-d8	98	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0019**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-09
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	107	80 - 120
Toluene-d8	105	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0020**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/21/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-10

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	80 - 120
Toluene-d8	105	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0010
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-11
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	80 - 120
Toluene-d8	98	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0016**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/20/01
PROJECT #:	NA	NEL SAMPLE ID:	P0102085-12
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	80 - 120
Toluene-d8	101	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010223AQ60BX_3A-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	2/23/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	108	80 - 120
Toluene-d8	81	80 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	010222BR-LCS	100	103	103	90 - 110	
Bromide	010222BR-LCSD	100	101	101	90 - 110	2.
Bromide	P0102085-07-MS	10	11.6	116	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010222cl-LCS	100	104	104	90 - 110	
Chloride	010222cl-LCSD	100	104	104	90 - 110	0.
Chloride	P0102060-01-MS	500	814	91	80 - 120	
Chloride	P0102060-01-MSD	500	870	102	80 - 120	11.6

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	010222COND-LCS	1412	1408	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	010222F2-LCS	2	1.91	96	84 - 109	
Fluoride	010222F2-LCSD	2	1.9	95	84 - 109	0.5
Fluoride	P0102085-01-MS	1	2.77	107	71 - 126	
Fluoride	P0102085-01-MSD	1	2.8	110	71 - 126	2.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	010222NO3-LCS	100	101	101	90 - 110	
Nitrate, as N	010222NO3-LCSD	100	101	101	90 - 110	0.
Nitrate, as N	P0102074-01-MS	20	19.6	87	80 - 120	
Nitrate, as N	P0102074-01-MSD	20	19.8	88	80 - 120	1.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	010222PH2-LCS	7	7	100	99 - 101	
7.00 Buffer	010222PH2-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Sulfate	010222so4-LCS	100	108	108	90 - 110	
Sulfate	010222so4-LCSD	100	106	106	90 - 110	1.9
Sulfate	P0102060-01-MS	25	184	96	80 - 120	
Sulfate	P0102060-01-MSD	25	184	96	80 - 120	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	010222TDS2-LCS	1000	1006	101	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Benzene	010223AQ60BX_3A-LCS	50	45.81	92		80 - 120	
Benzene	P0102085-01-MS	50	41.14	82		80 - 120	
Benzene	P0102085-01-MSD	50	50.12	100		80 - 120	19.7
Toluene	010223AQ60BX_3A-LCS	50	45.03	90		80 - 120	
Toluene	P0102085-01-MS	50	40.04	80		80 - 120	
Toluene	P0102085-01-MSD	50	48.63	97		80 - 120	19.4
Ethylbenzene	010223AQ60BX_3A-LCS	50	45.42	91		80 - 120	
Ethylbenzene	P0102085-01-MS	50	38.22	76	J1	80 - 120	
Ethylbenzene	P0102085-01-MSD	50	45.64	91		80 - 120	17.7
Total Xylenes	010223AQ60BX_3A-LCS	150	154.14	103		80 - 120	
Total Xylenes	P0102085-01-MS	150	130.88	87		80 - 120	
Total Xylenes	P0102085-01-MSD	150	156.3	104		80 - 120	17.7
MTBE	010223AQ60BX_3A-LCS	50	51.3	103		80 - 120	
MTBE	P0102085-01-MS	50	36.86	74	J1	80 - 120	
MTBE	P0102085-01-MSD	50	46.67	93		80 - 120	23.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010226CL-LCS	100	101	101	90 - 110	
Chloride	010226CL-LCSD	100	101	101	90 - 110	0.
Chloride	P0102074-01-MS	250	442	102	80 - 120	
Chloride	P0102074-01-MSD	250	439	101	80 - 120	1.2

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Sulfate	010226SO4-LCS	100	103	103	90 - 110	
Sulfate	010226SO4-LCSD	100	102	102	90 - 110	1.
Sulfate	L0102186-05-MS	10000	13900	105	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Sulfate	010227SO4-LCS	100	99	99	90 - 110	
Sulfate	010227SO4-LCSD	100	96	96	90 - 110	3.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010228ALK2-LCS	125	122.86	98	90 - 110	
Alkalinity, Total	010228ALK2-LCSD	125	123.58	99	90 - 110	0.6

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010228CL-LCS	100	103	103	90 - 110	
Chloride	010228CL-LCSD	100	103	103	90 - 110	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010301ALK-LCS	125	123.4	99	90 - 110	
Alkalinity, Total	010301ALK-LCSD	125	123.46	99	90 - 110	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Sulfate	010307ASO4-LCS	10	10	100	90 - 110	
Sulfate	L0103029-03-MS	2500	3400	103	80 - 120	
Sulfate	L0103029-03-MSD	2500	3500	107	80 - 120	3.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Calcium	P102085I-LCS	20	20	100		85 - 115	
Calcium	P0102085-01-MS	20	56.1	101		75 - 125	
Calcium	P0102085-01-MSD	20	59.2	116		75 - 125	14.3
Magnesium	P102085I-LCS	20	19.5	98		85 - 115	
Magnesium	P0102085-01-MS	20	31.2	96		75 - 125	
Magnesium	P0102085-01-MSD	20	32.2	101		75 - 125	5.1
Potassium	P102085I-LCS	20	20.1	101		85 - 115	
Potassium	P0102085-01-MS	20	30.2	96		75 - 125	
Potassium	P0102085-01-MSD	20	30.3	97		75 - 125	0.5
Sodium	P102085I-LCS	20	21.1	106		85 - 115	
Sodium	P0102085-01-MS	20	239	95		75 - 125	
Sodium	P0102085-01-MSD	20	253	165	C	75 - 125	53.8

ND - Not Detected

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EL PASO NATURAL GAS

DUKE 3/1

CHAIN OF CUSTODY RECORD

Casinghead

PO102085

Page 1 of 2

PROJECT NUMBER: | PROJECT NAME: Jal #4

SAMPLERS: Tommy | DATE: 2/20/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cation / Anions	See Attached	BTEX 8260	TDS	SP. Cond.
01	2/20/01	1055	H2O	MO1-0009	5		X	X	X	X	X
02	2/20/01	1230	H2O	MO1-0012	5		X	X	X	X	X
03	2/20/01	1320	H2O	MO1-0011	5		X	X	X	X	X
04	2/20/01	1540	H2O	MO1-0013	5		X	X	X	X	X
05	2/20/01	1725	H2O	MO1-0014	5		X	X	X	X	X
06	2/20/01	1725	H2O	MO1-0015	5		X	X	X	X	X
07	2/21/01	0856	H2O	MO1-0017	5		X	X	X	X	X
08	2/21/01	0925	H2O	MO1-0018	5		X	X	X	X	X
09	2/21/01	0930	H2O	MO1-0019	5		X	X	X	X	X
10	2/21/01	0935	H2O	MO1-0020	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Received pH's out of hold Time @ 2-22-01 1030 MST

Custody Seal(s) on Cooler(s) Intact Yes No None

Condition When Received Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/21/01 1600	Via Fed-X		2/22/1030	[signature]
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH ____

CARRIER CO.

BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

EPNG 9004 (Rev. 10-99)

EL PASO NATURAL GAS

Due 3/1

CHAIN OF CUSTODY RECORD

Las Vegas Lead P0102085

PROJECT NUMBER	PROJECT NAME	DATE
	JA1 #4	
SAMPLER(S): (Signature)	Jim Bridi	2/26/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CATIONS + ANIONS	SEE HACH	BTEX 8260	TDS	SP. Cond.
11	2/26/01	1130	H_2O	MO1-0010	5		X	X	X	X	X
12	2/26/01	1750	H_2O	MO1-0016	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Custody Seal Intact
Condition when received: Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Jim Bridi	2/26/01 1600	Via Fed-X		3/22/1030	HRL-LV
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO

BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

SAMPLE KEY

SAMPLE NUMBER: M01-0130 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 pump blank before purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:00 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0131 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:05 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0132 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:15 SAMPLE DATE: 05/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0133 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:05 SAMPLE DATE: 05/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0134 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #8
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:20 SAMPLE DATE: 05/01/2001
BY: Brisbin

SAMPLE KEY

ORIGINAL

SAMPLE NUMBER: M01-0135 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #11
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:50 SAMPLE DATE: 05/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0136 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #2A
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:45 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0137 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:05 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0138 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ENSR#3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:24 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0139 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ENSR#3 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:24 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0140 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well PTP #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:05 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0141 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ENSR #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:20 SAMPLE DATE: 05/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0143 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well #Dooms
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:00 SAMPLE DATE: 05/03/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0144 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:19 SAMPLE DATE: 05/03/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0145 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:55 SAMPLE DATE: 05/03/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0146 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #12 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:55 SAMPLE DATE: 05/03/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0147 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #9
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:35 SAMPLE DATE: 05/04/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0152 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #7
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:08 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0153 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #7 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:08 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0154 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 middle of purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:15 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0155 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank middle of sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:20 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0156 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #6
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:34 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0157 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:59 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0158 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #10
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:25 SAMPLE DATE: 05/06/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0159 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 07:45 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0160 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #17
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:00 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0161 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #17 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:00 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0162 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:10 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0163 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer after sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:15 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0164 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Field Blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:20 SAMPLE DATE: 05/07/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0165 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: OXY's water well
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:30 SAMPLE DATE: 05/07/2001
BY: Brisbin

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Jal #4 M.W.
PROJECT NUMBER: NA

NEL ORDER ID: P0105008

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/3/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

6/4/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0130**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	5/2/01
P[redacted]CT #:	NA	NEL SAMPLE ID:	P0105008-01
[redacted]	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	PEG - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	34	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Magnesium	13	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Potassium	3.2	2. mg/L	1	EPA 6010	5/4/01	5/8/01
Silica	22	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01
Sodium	76	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01

[redacted]

[redacted]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0131**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105008-02
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	PEG - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	0.91	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Magnesium	0.49	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Potassium	0.52	2. mg/L	1	EPA 6010	5/4/01	5/8/01
Silica	ND	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01
Sodium	2.4	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L05025i-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01
Potassium	ND	2. mg/L	1	EPA 6010	5/4/01	5/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	5/4/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
CLIENT ID: M01-0130
DATE SAMPLED: 5/2/01
NEL SAMPLE ID: P0105008-01

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	5/9/01
Bromide	ND	1.	5	EPA 300.0	mg/L	5/4/01
Chloride	67	10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	0.99	0.4	1	SM 4500-F C	mg/L	5/7/01
Hardness, Total (as CaCO3)	140	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	ND	0.5	5	EPA 300.0	mg/L-N	5/4/01
pH	7.67	2.	1	EPA 150.1	pH Units	5/3/01
pH Temperature	18.9	1.	1	EPA 150.1	°C	5/3/01
Specific Conductance	565	1.	1	SM 2510 B	µS/cm	5/3/01
Total Dissolved Solids	321	15.	1	SM 2540 C	mg/L	5/8/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

CLIENT ID: M01-0131
DATE SAMPLED: 5/2/01
NEL SAMPLE ID: P0105008-02

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	5/9/01
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/4/01
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/4/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/7/01
Hardness, Total (as CaCO3)	4.3	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/4/01
pH	7.69	2.	1	EPA 150.1	pH Units	5/3/01
pH Temperature	18.6	1.	1	EPA 150.1	°C	5/3/01
Specific Conductance	1.41	1.	1	SM 2510 B	µS/cm	5/3/01
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	5/8/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010504BR-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/4/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	010504CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/4/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	010504NO3-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/4/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010507F-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/7/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010508TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010509ALK2-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	010509CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0130**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105008-01

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/8/01

PARAMETER	Result		Reporting Limit
MTBE	ND		5. µg/L
Benzene	ND		2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	3.8	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	97	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0131
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105008-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/8/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	102	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508BTEX-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	5/8/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
P ECT #: NA

Inorganic Non-Metals
IX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	010503COND1-LCS	1412	1421	101	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	010503PH-LCS	7	7.01	100	99 - 101	
7.00 Buffer	010503PH-LCSD	7	7.04	101	99 - 101	0.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	010504BR-LCS	100	100	100	90 - 110	
Bromide	010504BR-LCSD	100	101	101	90 - 110	1.
Bromide	L0105008-01-MS	100	123	102	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010504CL-LCS	100	106	106	90 - 110	
Chloride	010504CL-LCSD	100	110	110	90 - 110	3.7
Chloride	L0105008-01-MS	100	120	111	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
P[illegible]ECT #: NA

Inorganic Non-Metals

[illegible]RIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	010504NO3-LCS	100	99	99	90 - 110	
Nitrate, as N	010504NO3-LCSD	100	99	99	90 - 110	0.
Nitrate, as N	L0105024-02-MS	100	120	108	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	010507F-LCS	2	1.9	95	84 - 109	
Fluoride	010507F-LCSD	1	0.93	93	84 - 109	2.1
Fluoride	P0105008-01-MS	1	1.9	91	71 - 126	
Fluoride	P0105008-01-MSD	1	2.1	111	71 - 126	19.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

BTEX by EPA SW846 Method 8021B, Dec. 1996

MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	010508BTEX-LCS	50	52.428	105	85 - 115	
Benzene	010508BTEX-LCSD	50	48.95	98	80 - 120	6.9
Benzene	P0105008-01-MS	50	52.1	104	70 - 130	
Benzene	P0105008-01-MSD	50	52.4	105	70 - 130	0.6
Toluene	010508BTEX-LCS	50	53.557	107	85 - 115	
Toluene	010508BTEX-LCSD	50	50.026	100	80 - 120	6.8
Toluene	P0105008-01-MS	50	52	104	70 - 130	
Toluene	P0105008-01-MSD	50	51.8	104	70 - 130	0.4
Ethylbenzene	010508BTEX-LCS	50	55.087	110	85 - 115	
Ethylbenzene	010508BTEX-LCSD	50	49.958	100	80 - 120	9.8
Ethylbenzene	P0105008-01-MS	50	52.3	105	70 - 130	
Ethylbenzene	P0105008-01-MSD	50	52.3	105	70 - 130	0.
Total Xylenes	010508BTEX-LCS	150	170.865	114	85 - 115	
Total Xylenes	010508BTEX-LCSD	150	153.862	103	80 - 120	10.5
Total Xylenes	P0105008-01-MS	150	165	107	70 - 130	
Total Xylenes	P0105008-01-MSD	150	166	108	70 - 130	0.6

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	010508TDS-LCS	1000	945	95	80 - 120	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010509ALK2-LCS	125	134	107	90 - 110	
Alkalinity, Total	010509ALK2-LCSD	125	122	98	90 - 110	9.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
P ᵀECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010509CL-LCS	100	106	106	90 - 110	
Chloride	010509CL-LCSD	100	108	108	90 - 110	1.9
Chloride	P0105008-01-MS	100	169	102	80 - 120	

ND - Not Detected

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

May 31, 2001

Ephraim Morris
NEL Laboratories
3021 S. 35th Street
Suite B-6
Phoenix, AZ 85034
TEL: (602) 437-0099
FAX (602) 437-2225

RE: P0105008 Order No.: 0105285

Dear Ephraim Morris:

Precision Analytical Laboratories, Inc. received 2 samples on 5/8/01 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative. The case narrative contains a listing of common method references, data qualifiers, and any comments that may be needed regarding the analytical results.

- Analytical Report. Analysis results are reported with the compound name first, followed by the test result, report limit (Limit), any required data qualifier (Qual), units, dilution factor (DF), and date analyzed.

- QC Summary Report. This section includes quality control results for some or all of the following: method blanks, sample duplicates, sample matrix spikes, sample matrix spike duplicates, laboratory control spikes, and laboratory control spike duplicates.

If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Carlene McCutcheon

Carlene McCutcheon
Project Manager

CC:

CLIENT: NEL Laboratories
Project: P0105008
Lab Order: 0105285

CASE NARRATIVE

Data Qualifiers
Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See

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case narrative.

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.

M5 Analyte concentration was determined by the method of standard addition (MSA).

N1 See case narrative.

Q1 Sample integrity was not maintained. See case narrative.

Q2 Sample received with head space.

Q3 Sample received with improper chemical preservation.

Q5 Sample received without chemical preservation, but preserved by the laboratory.

Q6 Sample was received above recommended temperature.

Q7 Sample inadequately dechlorinated.

Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.

Q10 Sample received in inappropriate sample container.

Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.

R2 RPD exceeded the laboratory control limit. See case narrative.

R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.

R4 RPD exceeded the method control limit. Recovery met acceptance criteria.

R5 RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

S2 Surrogate recovery was above laboratory and method acceptance limits.

S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.

S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.

S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.

S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.

S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).

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T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992 and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL- Tucson laboratory Arizona certification number: AZ0609.
PAL- North Phoenix laboratory Arizona certification number: AZ0611.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control

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objectives for the analyses included in this report.

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *31-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0130
Lab Order:	0105285	**Tag Number:**	
Project:	P0105008	**Collection Date:**	5/2/01 11:00:00 AM
Lab ID:	0105285-01A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				**Analyst: LH**
Sulfate	< 2.0	2.0		mg/L	1	5/24/01

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

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Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

Date: *31-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0131
Lab Order:	0105285	**Tag Number:**	
Project:	P0105008	**Collection Date:**	5/2/01 11:05:00 AM
Lab ID:	0105285-02A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **GL**
Sulfate	36	2.0		mg/L	1	5/21/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105285
Project: P0105008

QC SUMMARY REPORT
Method Blank

Sample ID: **MB-R10303** Batch ID: **R10303** Test Code: **E300** Units: **mg/L** Analysis Date **5/21/01** Prep Date:
Client ID: Run ID: **IC 1_010521A** SeqNo: **111999**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Sample ID: **MB-R10382** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105285
Project: P0105008

QC SUMMARY REPORT
Sample Duplicate

Sample ID: **0105368-01A DUP** Batch ID: **R10303** Test Code: **E300** Units: **mg/L** Analysis Date **5/21/01** Prep Date:
Client ID: Run ID: **IC 1_010521A** SeqNo: **112010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	5.64	2	0	0	0	0	0	6.03	6.68	20	

Sample ID: **0105454-02A DUP** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	6.92	2	0	0	0	0	0	7.195	3.9	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105285
Project: P0105008

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: **0105368-01A MS** Batch ID: **R10303** Test Code: **E300** Units: **mg/L** Analysis Date **5/21/01** Prep Date:
Client ID: Run ID: **IC 1_010521A** SeqNo: **112011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	28.15	2	20	6.03	111	80	120	0			

Sample ID: **0105454-02A MS** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	28.61	2	20	7.195	107	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105285
Project: P0105008

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: **LCS-R10303** Batch ID: **R10303** Test Code: **E300** Units: **mg/L** Analysis Date **5/21/01** Prep Date:
Client ID: Run ID: **IC 1_010521A** SeqNo: **112000**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	19.21	2	20	0	96	90	110	0			

Sample ID: **LCS-R10382** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	20.52	2	20	0	103	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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EL PASO NATURAL GAS

Dear 5/10/01 CHAIN OF CUSTODY RECORD Las Vegas lead P0105008 Page ... of ...

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY
	Tail #4 M.W.								
SAMPLERS: (Signature)	DATE:								
	5/1/01			Cation Anions	See Attached	TDS	Sp. Cond	BTEX	
LAB ID / DATE / TIME / MATRIX / SAMPLE NUMBER									REMARKS
01 / 5/1/01 / 1100 / H2O / MQ1-0130		5		X	X	X	X	X	
02 / 5/1/01 / 1105 / H2O / MQ1-0131		5		X	X	X	X	X	

0 3°C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/2/01 1630	VIA Fed-X		5/3 0905	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY LABORATORY: (Signature)

REQUESTED TURNAROUND TIME:
ROUTINE RUSH

CARRIER CO.

NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX. 915-587-3835

Testing Laboratory - Canary - EPNG Lab Pink - Field Sampler

109-0506 (Rev. 10-99)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0105007

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/3/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

5/11/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0132
PROJECT ID:	JAL #4	DATE SAMPLED:	5/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	9500	1000.	10000	EPA 300.0	mg/L	5/9/01
Specific Conductance	19200	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	9900	300.	20	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0133
DATE SAMPLED: 5/1/01
NEL SAMPLE ID: P0105007-02

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	5300	500.	5000	EPA 300.0	mg/L	5/9/01
Specific Conductance	14200	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	7640	150.	10	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0134
PROJECT ID:	JAL #4	DATE SAMPLED:	5/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-03
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	25000	1000.	10000	EPA 300.0	mg/L	5/9/01
Specific Conductance	51300	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	28200	1500.	100	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0135
PROJECT ID:	JAL #4	DATE SAMPLED:	5/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-04
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	15000	1000.	10000	EPA 300.0	mg/L	5/9/01
Specific Conductance	32800	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	20000	1500.	100	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0136
DATE SAMPLED: 5/2/01
NEL SAMPLE ID: P0105007-05

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	5400	500.	5000	EPA 300.0	mg/L	5/9/01
Specific Conductance	18500	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	10900	300.	20	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0137
PROJECT ID:	JAL #4	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-06
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	12000	1000.	10000	EPA 300.0	mg/L	5/9/01
Specific Conductance	29600	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	17400	300.	20	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0138
PROJECT ID:	JAL #4	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-07
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	610	50.	500	EPA 300.0	mg/L	5/9/01
Specific Conductance	2480	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	1240	30.	2	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0139
PROJECT ID:	JAL #4	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-08
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	680	50.	500	EPA 300.0	mg/L	5/9/01
Specific Conductance	2490	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	1270	30.	2	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0140
PROJECT ID:	JAL #4	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-09
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	520	50.	500	EPA 300.0	mg/L	5/9/01
Specific Conductance	2370	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	1240	30.	2	SM 2540 C	mg/L	5/7/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0141
PROJECT ID:	JAL #4	DATE SAMPLED:	5/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105007-10
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	7600	500.	5000	EPA 300.0	mg/L	5/9/01
Specific Conductance	19200	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	10200	300.	20	SM 2540 C	mg/L	5/7/01

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
ANALYSIS: **Non-Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010507TDS-BLK

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/7/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P[redacted] CT #:	NA	NEL SAMPLE ID:	010509CL-BLK
[redacted]:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

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EL PASO NATURAL GAS

5/10/01

CHAIN OF CUSTODY RECORD Las Vegas Lead

P0105007

Page ____ of ____

PROJECT NUMBER	PROJECT NAME													CONTRACT LABORATORY
	JAI #4													
SAMPLERS: (Signature)	DATE: 5/1/01													
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: FAS	Sp. Cond	Cl					REMARKS
01	5/1/01	1215	H2O	MO1-0132	1		X	X	X					
02	5/1/01	1305	H2O	MO1-0133	1		X	X	X					
03	5/1/01	1420	H2O	MO1-0134	1		X	X	X					
04	5/1/01	1550	H2O	MO1-0135	1		X	X	X					
05	5/2/01	0945	H2O	MO1-0136	1		X	X	X					
06	5/2/01	1105	H2O	MO1-0137	1		X	X	X					
07	5/2/01	1224	H2O	MO1-0138	1		X	X	X					
08	5/2/01	1324	H2O	MO1-0139	1		X	X	X					
09	5/2/01	1305	H2O	MO1-0140	1		X	X	X					
10	5/2/01	1420	H2O	MO1-0141	1		X	X	X					4°

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/2/01 1630		Via FED EX	5/3 0900	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev 10-

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0105010

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/4/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

6/4/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

Cations by EPA 6010A

MATRIX: Aqueous

CLIENT ID: **M01-0143**
DATE SAMPLED: 5/3/01
NEL SAMPLE ID: P0105010-01

ANALYST: RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	49	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Magnesium	16	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Potassium	3.8	2. mg/L	1	EPA 6010	5/8/01	5/8/01
Silica	34	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01
Sodium	73	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01

D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	010508SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P5010I-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Potassium	ND	2. mg/L	1	EPA 6010	5/8/01	5/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
[redacted]: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0143
DATE SAMPLED: 5/3/01
NEL SAMPLE ID: P0105010-01

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180		1	SM 2320 B	mg/L	5/15/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/15/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/15/01
Alkalinity, Total as CaCO3	180	25.	1	SM 2320 B	mg/L	5/15/01
Bromide	0.51	1.	5	EPA 300.0	mg/L	5/4/01
Chloride	30	2.5	25	EPA 300.0	mg/L	5/9/01
Fluoride	0.91	0.4	1	SM 4500-F C	mg/L	5/7/01
Hardness, Total (as CaCO3)	190	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	1.0	0.25	5	SM 4500-NO3	mg/L-N	5/4/01
pH	7.75	2.	1	EPA 150.1	pH Units	5/4/01
pH Temperature	22.7	1.	1	EPA 150.1	°C	5/4/01
Specific Conductance	615	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	419	15.	1	SM 2540 C	mg/L	5/7/01

[redacted]Reporting Limit
D.[redacted] Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P CT #:	NA	NEL SAMPLE ID:	010504BR-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/4/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010504NO3-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	5/4/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010507F-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/7/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
F CT #:	NA	NEL SAMPLE ID:	010507TDS2-BLK
	Non-Metals		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/7/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P[redacted] CT #:	NA	NEL SAMPLE ID:	010509CL-BLK
[redacted]:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010515ALK-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	5/15/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	5/15/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	5/15/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	5/15/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0143**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105010-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/8/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	99	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508BTEX-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	5/8/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	010504BR-LCS	100	100	100	90 - 110	
Bromide	010504BR-LCSD	100	101	101	90 - 110	1.
Bromide	L0105008-01-MS	100	123	102	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	010504NO3-LCS	100	99	99	90 - 110	
Nitrate, as N	010504NO3-LCSD	100	99	99	90 - 110	0.
Nitrate, as N	L0105024-02-MS	100	120	108	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	010504PH-LCS	7	6.98	100	99 - 101	
7.00 Buffer	010504PH-LCSD	7	6.99	100	99 - 101	0.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
ANALYSIS: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	010507COND-LCS	1412	1417	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
ECT #: NA

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	010507F-LCS	2	1.9	95	84 - 109	
Fluoride	010507F-LCSD	1	0.93	93	84 - 109	2.1
Fluoride	P0105008-01-MS	1	1.9	91	71 - 126	
Fluoride	P0105008-01-MSD	1	2.1	111	71 - 126	19.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	010507TDS2-LCS	1000	961	96	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
BTEX by EPA SW846 Method 8021B, Dec. 1996
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	010508BTEX-LCS	50	52.428	105	85 - 115	
Benzene	010508BTEX-LCSD	50	48.95	98	80 - 120	6.9
Benzene	P0105008-01-MS	50	52.1	104	70 - 130	
Benzene	P0105008-01-MSD	50	52.4	105	70 - 130	0.6
Toluene	010508BTEX-LCS	50	53.557	107	85 - 115	
Toluene	010508BTEX-LCSD	50	50.026	100	80 - 120	6.8
Toluene	P0105008-01-MS	50	52	104	70 - 130	
Toluene	P0105008-01-MSD	50	51.8	104	70 - 130	0.4
Ethylbenzene	010508BTEX-LCS	50	55.087	110	85 - 115	
Ethylbenzene	010508BTEX-LCSD	50	49.958	100	80 - 120	9.8
Ethylbenzene	P0105008-01-MS	50	52.3	105	70 - 130	
Ethylbenzene	P0105008-01-MSD	50	52.3	105	70 - 130	0.
Total Xylenes	010508BTEX-LCS	150	170.865	114	85 - 115	
Total Xylenes	010508BTEX-LCSD	150	153.862	103	80 - 120	10.5
Total Xylenes	P0105008-01-MS	150	165	107	70 - 130	
Total Xylenes	P0105008-01-MSD	150	166	108	70 - 130	0.6

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010509CL-LCS	100	106	106	90 - 110	
Chloride	010509CL-LCSD	100	108	108	90 - 110	1.9
Chloride	P0105008-01-MS	100	169	102	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
[redacted]: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010515ALK-LCS	125	126	101	90 - 110	
Alkalinity, Total	010515ALK-LCSD	125	122	98	90 - 110	3.2

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P5010I-LCS	20	20	100	85 - 115	
Calcium	P0105010-01-MS	20	67.2	91	75 - 125	
Calcium	P0105010-01-MSD	20	66.2	86	75 - 125	5.6
Magnesium	P5010I-LCS	20	19.6	98	85 - 115	
Magnesium	P0105010-01-MS	20	35.4	97	75 - 125	
Magnesium	P0105010-01-MSD	20	34.9	95	75 - 125	2.6
Potassium	P5010I-LCS	20	19.8	99	85 - 115	
Potassium	P0105010-01-MS	20	24	101	75 - 125	
Potassium	P0105010-01-MSD	20	23.8	100	75 - 125	1.
Sodium	P5010I-LCS	20	20.1	101	85 - 115	
Sodium	P0105010-01-MS	20	92.6	98	75 - 125	
Sodium	P0105010-01-MSD	20	90.5	88	75 - 125	11.3

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

May 31, 2001

Ephraim Morris
NEL Laboratories
3021 S. 35th Street
Suite B-6
Phoenix, AZ 85034
TEL: (602) 437-0099
FAX (602) 437-2225

RE: P0105010 Order No.: 0105286

Dear Ephraim Morris:

Precision Analytical Laboratories, Inc. received 1 sample on 5/8/01 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative. The case narrative contains a listing of common method references, data qualifiers, and any comments that may be needed regarding the analytical results.

- Analytical Report. Analysis results are reported with the compound name first, followed by the test result, report limit (Limit), any required data qualifier (Qual), units, dilution factor (DF), and date analyzed.

- QC Summary Report. This section includes quality control results for some or all of the following: method blanks, sample duplicates, sample matrix spikes, sample matrix spike duplicates, laboratory control spikes, and laboratory control spike duplicates.

If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Carlene McCutcheon

Carlene McCutcheon
Project Manager

CC:

Date: *31-May-01*

CLIENT: NEL Laboratories
Project: P0105010
Lab Order: 0105286

CASE NARRATIVE

Data Qualifiers
Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See

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case narrative.

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.

M5 Analyte concentration was determined by the method of standard addition (MSA).

N1 See case narrative.

Q1 Sample integrity was not maintained. See case narrative.

Q2 Sample received with head space.

Q3 Sample received with improper chemical preservation.

Q5 Sample received without chemical preservation, but preserved by the laboratory.

Q6 Sample was received above recommended temperature.

Q7 Sample inadequately dechlorinated.

Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.

Q10 Sample received in inappropriate sample container.

Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.

R2 RPD exceeded the laboratory control limit. See case narrative.

R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.

R4 RPD exceeded the method control limit. Recovery met acceptance criteria.

R5 RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

S2 Surrogate recovery was above laboratory and method acceptance limits.

S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.

S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.

S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.

S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.

S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).

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T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992 and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL- Tucson laboratory Arizona certification number: AZ0609.
PAL- North Phoenix laboratory Arizona certification number: AZ0611.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control

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objectives for the analyses included in this report.

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: 31-May-01

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0143
Lab Order:	0105286	**Tag Number:**	
Project:	P0105010	**Collection Date:**	5/3/01 1:00:00 PM
Lab ID:	0105286-01A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				**Analyst: LH**
Sulfate	74	10	D2	mg/L	5	5/24/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105286
Project: P0105010

QC SUMMARY REPORT
Method Blank

Sample ID: **MB-R10382** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

1

Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105286
Project: P0105010

QC SUMMARY REPORT
Sample Duplicate

Sample ID: 0105454-02A DUP Batch ID: R10382 Test Code: E300 Units: mg/L Analysis Date 5/24/01 Prep Date:
Client ID: Run ID: IC 1_010523A SeqNo: 113226

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	6.92	2	0	0	0	0	0	7.195	3.9	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105286
Project: P0105010

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: **0105454-02A MS** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	28.61	2	20	7.195	107	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *31-May-01*

CLIENT: NEL Laboratories
Work Order: 0105286
Project: P0105010

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: **LCS-R10382** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	20.52	2	20	0	103	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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5-11-01

PO105010

elpaso

CHAIN OF CUSTODY RECORD

Las Vegas Lead

Page of

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY
	JA1 #4 Monitor Wells											
SAMPLERS: (Signature)		DATE:										
		5/3/01										
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Cations + Anions SEE ATTACHED		TDS	sp. cond.	BTEX	REMARKS
01	5/3/01	1300	H2O	MO1-0143	5		X	X	X	X	X	- Btex 8021B per Darrell Campbell 5/4

Custody Seals in ... Y (N) NA

Condition when received: Poor (G...

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	5/3/01 1700	VIA	FEDEX	5/4 0945	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH ____

CARRIER CO

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

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White - Testing L... Canary - EP Corp. Lab Pink - Field Sampler

08 0566 Rev 3 01

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Las Vegas Division
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702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0105011

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/4/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

6/6/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0145**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105011-02
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	160	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Magnesium	56	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Potassium	9.2	2. mg/L	1	EPA 6010	5/8/01	5/8/01
Silica	32	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01
Sodium	150	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01

D. F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0146**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105011-03
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	160	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Magnesium	57	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Potassium	8.9	2. mg/L	1	EPA 6010	5/8/01	5/8/01
Silica	31	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01
Sodium	150	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P CT #:	NA	NEL SAMPLE ID:	010508SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P5010I-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01
Potassium	ND	2. mg/L	1	EPA 6010	5/8/01	5/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	5/8/01	5/8/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0144
DATE SAMPLED: 5/3/01
NEL SAMPLE ID: P0105011-01

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	5/9/01
Bromide	1.0	2.	10	EPA 300.0	mg/L	5/4/01
Chloride	89	25.	250	EPA 300.0	mg/L	5/9/01
Fluoride	1.6	0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	220	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	3.7	1.	10	EPA 300.0	mg/L-N	5/4/01
pH	7.66	2.	1	EPA 150.1	pH Units	5/4/01
pH Temperature	22.7	1.	1	EPA 150.1	°C	5/4/01
Specific Conductance	809	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	499	15.	1	SM 2540 C	mg/L	5/7/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
[redacted]CT #: NA
[redacted] Inorganic Non-Metals
MATRIX: Aqueous

CLIENT ID: M01-0145
DATE SAMPLED: 5/3/01
NEL SAMPLE ID: P0105011-02

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	140	25.	1	SM 2320 B	mg/L	5/9/01
Bromide	1.4	2.	10	EPA 300.0	mg/L	5/4/01
Chloride	570	50.	500	EPA 300.0	mg/L	5/9/01
Fluoride	1.0	0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	630	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	5/4/01
pH	7.40	2.	1	EPA 150.1	pH Units	5/4/01
pH Temperature	22.2	1.	1	EPA 150.1	°C	5/4/01
Specific Conductance	2100	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	1060	30.	2	SM 2540 C	mg/L	5/7/01

[redacted]

[redacted]eporting Limit
D[redacted]ilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

CLIENT ID: M01-0146
DATE SAMPLED: 5/3/01
NEL SAMPLE ID: P0105011-03

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	150	25.	1	SM 2320 B	mg/L	5/9/01
Bromide	1.3	2.	10	EPA 300.0	mg/L	5/4/01
Chloride	510	50.	500	EPA 300.0	mg/L	5/9/01
Fluoride	0.97	0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	630	2.	1	EPA 200.7	mg/L	5/8/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	5/4/01
pH	7.44	2.	1	EPA 150.1	pH Units	5/4/01
pH Temperature	22.5	1.	1	EPA 150.1	°C	5/4/01
Specific Conductance	2120	1.	1	SM 2510 B	µS/cm	5/7/01
Total Dissolved Solids	1150	30.	2	SM 2540 C	mg/L	5/7/01

R - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P SCT #:	NA	NEL SAMPLE ID:	010504BR-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/4/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010504NO3-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/4/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P CT #:	NA	NEL SAMPLE ID:	010507TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/7/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010509ALK2-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	010509CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0144**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105011-01

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	91	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0145**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105011-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/8/01

PARAMETER	Result		Reporting Limit
MTBE	ND		5. µg/L
Benzene	2.4	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	ND		2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0146**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	5/3/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105011-03

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/8/01

PARAMETER	Result		Reporting Limit
MTBE	ND		5. µg/L
Benzene	2.1	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	ND		2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	99	69 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508BTEX-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	5/8/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	69 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010510BTEX-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	91	69 - 120

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	010504BR-LCS	100	100	100	90 - 110	
Bromide	010504BR-LCSD	100	101	101	90 - 110	1.
Bromide	L0105008-01-MS	100	123	102	80 - 120	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
[redacted] Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	010504NO3-LCS	100	99	99	90 - 110	
Nitrate, as N	010504NO3-LCSD	100	99	99	90 - 110	0.
Nitrate, as N	L0105024-02-MS	100	120	108	80 - 120	

[redacted]

[redacted]

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P[illegible]CT #: NA
[illegible]: **Inorganic Non-Metals**
M[illegible]RIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	010504PH-LCS	7	6.98	100	99 - 101	
7.00 Buffer	010504PH-LCSD	7	6.99	100	99 - 101	0.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P[illegible]CT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	010507COND-LCS	1412	1417	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	010507TDS-LCS	1000	932	93	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P[illegible]CT #: NA

BTEX by EPA SW846 Method 8021B, Dec. 1996

M[illegible]IX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	010508BTEX-LCS	50	52.428	105	85 - 115	
Benzene	010508BTEX-LCSD	50	48.95	98	80 - 120	6.9
Benzene	P0105008-01-MS	50	52.1	104	70 - 130	
Benzene	P0105008-01-MSD	50	52.4	105	70 - 130	0.6
Toluene	010508BTEX-LCS	50	53.557	107	85 - 115	
Toluene	010508BTEX-LCSD	50	50.026	100	80 - 120	6.8
Toluene	P0105008-01-MS	50	52	104	70 - 130	
Toluene	P0105008-01-MSD	50	51.8	104	70 - 130	0.4
Ethylbenzene	010508BTEX-LCS	50	55.087	110	85 - 115	
Ethylbenzene	010508BTEX-LCSD	50	49.958	100	80 - 120	9.8
Ethylbenzene	P0105008-01-MS	50	52.3	105	70 - 130	
Ethylbenzene	P0105008-01-MSD	50	52.3	105	70 - 130	0.
Total Xylenes	010508BTEX-LCS	150	170.865	114	85 - 115	
Total Xylenes	010508BTEX-LCSD	150	153.862	103	80 - 120	10.5
Total Xylenes	P0105008-01-MS	150	165	107	70 - 130	
Total Xylenes	P0105008-01-MSD	150	166	108	70 - 130	0.6

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	010508F-LCS	1	0.96	96	84 - 109	
Fluoride	010508F-LCSD	1	1.01	101	84 - 109	5.1
Fluoride	P0105011-01-MS	1	2.6	100	71 - 126	
Fluoride	P0105011-01-MSD	1	2.7	110	71 - 126	9.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P[illegible]CT #: NA
[illegible] **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010509ALK2-LCS	125	134	107	90 - 110	
Alkalinity, Total	010509ALK2-LCSD	125	122	98	90 - 110	9.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010509CL-LCS	100	106	106	90 - 110	
Chloride	010509CL-LCSD	100	108	108	90 - 110	1.9
Chloride	P0105008-01-MS	100	169	102	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

BTEX by EPA SW846 Method 8021B, Dec. 1996

MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	010510BTEX-LCS	50	52.03	104	85 - 115	
Benzene	010510BTEX-LCSD	50	49.671	99	80 - 120	4.6
Benzene	P0105015-01-MS	50	50.612	101	70 - 130	
Benzene	P0105015-01-MSD	50	49.233	98	70 - 130	2.8
Toluene	010510BTEX-LCS	50	53.481	107	85 - 115	
Toluene	010510BTEX-LCSD	50	48.882	98	80 - 120	9.
Toluene	P0105015-01-MS	50	51.343	103	70 - 130	
Toluene	P0105015-01-MSD	50	49.135	98	70 - 130	4.4
Ethylbenzene	010510BTEX-LCS	50	51.958	104	85 - 115	
Ethylbenzene	010510BTEX-LCSD	50	50.906	102	80 - 120	2.
Ethylbenzene	P0105015-01-MS	50	49.761	100	70 - 130	
Ethylbenzene	P0105015-01-MSD	50	47.838	96	70 - 130	3.9
Total Xylenes	010510BTEX-LCS	150	163.049	109	85 - 115	
Total Xylenes	010510BTEX-LCSD	150	157.479	105	80 - 120	3.5
Total Xylenes	P0105015-01-MS	150	154.765	103	70 - 130	
Total Xylenes	P0105015-01-MSD	150	150.356	100	70 - 130	2.9

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P[illegible]CT #: NA
[illegible]: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P5010I-LCS	20	20	100	85 - 115	
Calcium	P0105010-01-MS	20	67.2	91	75 - 125	
Calcium	P0105010-01-MSD	20	66.2	86	75 - 125	5.6
Magnesium	P5010I-LCS	20	19.6	98	85 - 115	
Magnesium	P0105010-01-MS	20	35.4	97	75 - 125	
Magnesium	P0105010-01-MSD	20	34.9	95	75 - 125	2.6
Potassium	P5010I-LCS	20	19.8	99	85 - 115	
Potassium	P0105010-01-MS	20	24	101	75 - 125	
Potassium	P0105010-01-MSD	20	23.8	100	75 - 125	1.
Sodium	P5010I-LCS	20	20.1	101	85 - 115	
Sodium	P0105010-01-MS	20	92.6	98	75 - 125	
Sodium	P0105010-01-MSD	20	90.5	88	75 - 125	11.3

ND - Not Detected

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PO105011

elpaso

CHAIN OF CUSTODY RECORD

5-11-01 Lab results faxed

Page of

PROJECT NUMBER | PROJECT NAME: JA 1#4 Monitor Wells | CONTRACT LABORATORY

SAMPLERS: (Signature) | DATE: 5/3/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations Anions	See Attached	TDS	Sp Cond	BTEX
01	5/3/01	1419	H2O	MO1-0144	5		X	X	X	X	X
02	5/3/01	1555	H2O	MO1-0145	5		X	X	X	X	X
03	5/3/01	1555	H2O	MO1-0146	5		X	X	X	X	X

REMARKS: Did not receive VOCs

Received one vial broken BTEX 8021B per Darrell Campbell 5/4/01 pc

Received MO1-0144 5/8

Condition when rec'd: Y [ ] N [ ] 4°C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5/3/01 1700	VICA	FEDEX	5/4 0945	[signature]
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

08 0566 (Rev 3/01)

Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

June 06, 2001

Ephraim Morris
NEL Laboratories
3021 S. 35th Street
Suite B-6
Phoenix, AZ 85034
TEL: (602) 437-0099
FAX (602) 437-2225

RE: P0105011 Order No.: 0105287

Dear Ephraim Morris:

Precision Analytical Laboratories, Inc. received 3 samples on 5/8/01 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative. The case narrative contains a listing of common method references, data qualifiers, and any comments that may be needed regarding the analytical results.

- Analytical Report. Analysis results are reported with the compound name first, followed by the test result, report limit (Limit), any required data qualifier (Qual), units, dilution factor (DF), and date analyzed.

- QC Summary Report. This section includes quality control results for some or all of the following: method blanks, sample duplicates, sample matrix spikes, sample matrix spike duplicates, laboratory control spikes, and laboratory control spike duplicates.

If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Carlene McCutcheon

Project Manager

CC:

T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992 and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL- Tucson laboratory Arizona certification number: AZ0609.
PAL- North Phoenix laboratory Arizona certification number: AZ0611.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control

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objectives for the analyses included in this report.

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *06-Jun-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0144
Lab Order:	0105287	**Tag Number:**	
Project:	P0105011	**Collection Date:**	5/3/01 2:19:00 PM
Lab ID:	0105287-01A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: LH
Sulfate	100	10	D2	mg/L	5	5/23/01

Qualifiers:		
	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

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Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

Date: *06-Jun-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0145
Lab Order:	0105287	**Tag Number:**	
Project:	P0105011	**Collection Date:**	5/3/01 3:55:00 PM
Lab ID:	0105287-02A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: LH
Sulfate	110	10	D2	mg/L	5	5/24/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

Date: *06-Jun-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0146
Lab Order:	0105287	**Tag Number:**	
Project:	P0105011	**Collection Date:**	5/3/01 3:55:00 PM
Lab ID:	0105287-03A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				**Analyst: GL**
Sulfate	110	40	D2	mg/L	20	5/18/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *06-Jun-01*

CLIENT: NEL Laboratories
Work Order: 0105287
Project: P0105011

QC SUMMARY REPORT
Method Blank

Sample ID: MB-R10296	Batch ID: R10296	Test Code: E300	Units: mg/L	Analysis Date 5/18/01	Prep Date:
Client ID:		Run ID: IC 1_010518E		SeqNo: 111887	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Sample ID: MB-R10382	Batch ID: R10382	Test Code: E300	Units: mg/L	Analysis Date 5/24/01	Prep Date:
Client ID:		Run ID: IC 1_010523A		SeqNo: 113219	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Precision Analytical Laboratories, Inc.

Date: *06-Jun-01*

CLIENT: NEL Laboratories
Work Order: 0105287
Project: P0105011

QC SUMMARY REPORT
Sample Duplicate

Sample ID: **0105368-02A DUP** Batch ID: **R10296** Test Code: **E300** Units: **mg/L** Analysis Date **5/18/01** Prep Date:
Client ID: Run ID: **IC 1_010518E** SeqNo: **111893**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.86	2	0	0	0	0	0	4.21	8.67	20	

Sample ID: **0105454-02A DUP** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	6.92	2	0	0	0	0	0	7.195	3.9	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *06-Jun-01*

CLIENT: NEL Laboratories
Work Order: 0105287
Project: P0105011

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0105368-02A MS	Batch ID: R10296	Test Code: E300	Units: mg/L	Analysis Date 5/18/01	Prep Date:
Client ID:		Run ID: IC 1_010518E		SeqNo: 111894	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	25.28	2	20	4.21	105	80	120	0			

Sample ID: 0105454-02A MS	Batch ID: R10382	Test Code: E300	Units: mg/L	Analysis Date 5/24/01	Prep Date:
Client ID:		Run ID: IC 1_010523A		SeqNo: 113227	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	28.61	2	20	7.195	107	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *06-Jun-01*

CLIENT: NEL Laboratories
Work Order: 0105287
Project: P0105011

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: **LCS-R10296** Batch ID: **R10296** Test Code: **E300** Units: **mg/L** Analysis Date **5/18/01** Prep Date:
Client ID: Run ID: **IC 1_010518E** SeqNo: **111888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	21.07	2	20	0	105	90	110	0			

Sample ID: **LCS-R10382** Batch ID: **R10382** Test Code: **E300** Units: **mg/L** Analysis Date **5/24/01** Prep Date:
Client ID: Run ID: **IC 1_010523A** SeqNo: **113220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	20.52	2	20	0	103	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL#4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0105016

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/8/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

5/15/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0147
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
ECT #:	NA	NEL SAMPLE ID:	P0105016-01
	Inorganic Non-Metals		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	2800	100.	1000	EPA 300.0	mg/L	5/10/01
Specific Conductance	8300	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	4640	150.	10	SM 2540 C	mg/L	5/10/01

Reporting Limit
Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0152
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
[illegible]CT #:	NA	NEL SAMPLE ID:	P0105016-02

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	6800	250.	2500	EPA 300.0	mg/L	5/10/01
Specific Conductance	16400	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	8980	300.	20	SM 2540 C	mg/L	5/10/01

[illegible]eporting Limit
[illegible] Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-053
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
[illegible]ECT #:	NA	NEL SAMPLE ID:	P0105016-03
[illegible]:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	6500	200.	2000	EPA 300.0	mg/L	5/10/01
Specific Conductance	16300	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	9640	300.	20	SM 2540 C	mg/L	5/10/01

[illegible]eporting Limit
[illegible] Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0154
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
ECT #:	NA	NEL SAMPLE ID:	P0105016-04

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	110	5.	50	EPA 300.0	mg/L	5/10/01
Specific Conductance	733	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	426	15.	1	SM 2540 C	mg/L	5/10/01

Reporting Limit
Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0155
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105016-05

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	15	2.5	25	EPA 300.0	mg/L	5/10/01
Specific Conductance	198	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	115	15.	1	SM 2540 C	mg/L	5/10/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0156
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105016-06

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	2600	250.	2500	EPA 300.0	mg/L	5/10/01
Specific Conductance	9020	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	5240	150.	10	SM 2540 C	mg/L	5/10/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0157
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105016-07

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	540	50.	500	EPA 300.0	mg/L	5/10/01
Specific Conductance	3030	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	1920	30.	2	SM 2540 C	mg/L	5/10/01

[redacted]eporting Limit
D[redacted]Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0158
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	5/6/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105016-08

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	1000	50.	500	EPA 300.0	mg/L	5/10/01
Specific Conductance	3660	1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	2360	30.	2	SM 2540 C	mg/L	5/10/01

eporting Limit
Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL#4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010510CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL#4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010510TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/10/01

D.F. - Dilution Factor

ND - Not Detected

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elpaso

5/15/01

CHAIN OF CUSTODY RECORD

Las Vegas Lead

PO105016

PROJECT NUMBER	PROJECT NAME							REQUESTED ANALYSIS						CONTRACT LABORATORY
	JGI #4 Monitor Wells													
SAMPLERS: (Signature) Alan Baldwin		DATE: 5/4/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	Cl⁻	TDS	sp. cond				REMARKS
01	5/4/01	0935	H2O	MO1-0147	1		X	X	X				
02	5/6/01	0805	H2O	MO1-0152	1		X	X	X				
03	5/6/01	0808	H2O	MO1-0153	1		X	X	X				
04	5/6/01	0815	H2O	MO1-0154	1		X	X	X				
05	5/6/01	0830	H2O	MO1-0155	1		X	X	X				
06	5/6/01	0934	H2O	MO1-0156	1		X	X	X				
07	5/6/01	0959	H2O	MO1-0157	1		X	X	X				
08	5/6/01	1025	H2O	MO1-0158	1		X	X	X				

Custody Seal Intact: Y N None Temp: 4°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Alan Baldwin	5/7/01 1100	VIA	FEDEX	05/09/01	A Lynwood
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08-0566 (Rev. 3/01)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Jal #4 M.W.'s
PROJECT NUMBER: NA

NEL ORDER ID: P0105015

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/8/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

5/30/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0159**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-01
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	47	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	16	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	4.6	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	33	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	88	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0160**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-02
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	42	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	14	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	5.8	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	32	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	80	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0161**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-03

Cations by EPA 6010A

MATRIX: Aqueous ANALYST: RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	42	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	14	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	6.2	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	32	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	81	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0162**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-04
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	34	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	11	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	5.5	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	21	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	93	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D.F. = Dilution Factor

ND = Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0163**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-05
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	ND	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	11	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	140	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0164
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-06
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	ND	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	11	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	140	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D. F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0165
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-07
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	69	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	20	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	4.8	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Silica	34	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01
Sodium	65	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D. F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010510SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	5/10/01	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P5015I-2-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01
Potassium	ND	2. mg/L	1	EPA 6010	5/10/01	5/10/01
Sodium	ND	0.5 mg/L	1	EPA 6010	5/10/01	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0159
DATE SAMPLED: 5/7/01
NEL SAMPLE ID: P0105015-01

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	180		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.34		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	57		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	180		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	1.5		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	7.79	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	26.6		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	685		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	444		15.	1	SM 2540 C	mg/L	5/10/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0160
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-02
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	180		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.28		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	52		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	160		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	0.99		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	7.81	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	26.0		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	629		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	416		15.	1	SM 2540 C	mg/L	5/10/01

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0161
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-03
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	180		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.31		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	46		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	160		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	1.0		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	7.84	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	25.8		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	628		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	396		15.	1	SM 2540 C	mg/L	5/10/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0162
DATE SAMPLED: 5/7/01
NEL SAMPLE ID: P0105015-04

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	150		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.60		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	130		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	1.8		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	130		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	8.19	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	25.6		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	724		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	426		15.	1	SM 2540 C	mg/L	5/10/01

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0163
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-05
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	240			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	240		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.17		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	65		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	0.62		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	8.24	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	25.4		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	578		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	327		15.	1	SM 2540 C	mg/L	5/10/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0164
P[illegible]ECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
[illegible]CT #:	NA	NEL SAMPLE ID:	P0105015-06
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	240			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	240		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.17		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	84		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	0.63		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	8.19	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	25.2		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	577		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	342		15.	1	SM 2540 C	mg/L	5/10/01

[illegible]Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0165
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-07
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	160		25.	1	SM 2320 B	mg/L	5/9/01
Bromide	0.61		0.2	1	EPA 300.0	mg/L	5/8/01
Chloride	140		10.	100	EPA 300.0	mg/L	5/9/01
Fluoride	1.0		0.4	1	SM 4500-F C	mg/L	5/8/01
Hardness, Total (as CaCO3)	250		2.	1	EPA 200.7	mg/L	5/10/01
Nitrate, as N	0.82		0.1	1	EPA 300.0	mg/L-N	5/8/01
pH	7.70	Hr	2.	1	EPA 150.1	pH Units	5/8/01
pH Temperature	24.9		1.	1	EPA 150.1	°C	5/8/01
Specific Conductance	781		1.	1	SM 2510 B	µS/cm	5/10/01
Total Dissolved Solids	481		15.	1	SM 2540 C	mg/L	5/10/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508BR-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010508NO3-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Non-Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010509ALK1-BLK

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	5/9/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010509CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010510TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0159**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	95	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0160**
P[illegible]ECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
[illegible]CT #:	NA	NEL SAMPLE ID:	P0105015-02
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	94	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0161**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-03
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	93	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0162**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-04
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	5.2 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	92	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0163**
P[illegible]ECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
[illegible]CT #:	NA	NEL SAMPLE ID:	P0105015-05
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	95	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0164**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-06
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	93	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0165
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	5/7/01
PROJECT #:	NA	NEL SAMPLE ID:	P0105015-07
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
DILUTION:	1	ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	95	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.'s	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010510BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	NA
		ANALYZED:	5/10/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	91	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	010508BR-LCS	100	92	92	90 - 110	
Bromide	010508BR-LCSD	100	93	93	90 - 110	1.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	010508F-LCS	1	0.96	96	84 - 109	
Fluoride	010508F-LCSD	1	1.01	101	84 - 109	5.1
Fluoride	P0105011-01-MS	1	2.6	100	71 - 126	
Fluoride	P0105011-01-MSD	1	2.7	110	71 - 126	9.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	010508NO3-LCS	100	92	92	90 - 110	
Nitrate, as N	010508NO3-LCSD	100	91	91	90 - 110	1.1
Nitrate, as N	L0105060-04-MS	100	94	94	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	010508PH-LCS	7	7	100	99 - 101	
7.00 Buffer	010508PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	010509ALK1-LCS	125	138	110	90 - 110	
Alkalinity, Total	010509ALK1-LCSD	125	136	109	90 - 110	1.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	010509CL-LCS	100	106	106	90 - 110	
Chloride	010509CL-LCSD	100	108	108	90 - 110	1.9
Chloride	P0105008-01-MS	100	169	102	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	010510BTEX-LCS	50	52.03	104	85 - 115	
Benzene	010510BTEX-LCSD	50	49.671	99	80 - 120	4.6
Benzene	P0105015-01-MS	50	50.612	101	70 - 130	
Benzene	P0105015-01-MSD	50	49.233	98	70 - 130	2.8
Toluene	010510BTEX-LCS	50	53.481	107	85 - 115	
Toluene	010510BTEX-LCSD	50	48.882	98	80 - 120	9.
Toluene	P0105015-01-MS	50	51.343	103	70 - 130	
Toluene	P0105015-01-MSD	50	49.135	98	70 - 130	4.4
Ethylbenzene	010510BTEX-LCS	50	51.958	104	85 - 115	
Ethylbenzene	010510BTEX-LCSD	50	50.906	102	80 - 120	2.
Ethylbenzene	P0105015-01-MS	50	49.761	100	70 - 130	
Ethylbenzene	P0105015-01-MSD	50	47.838	96	70 - 130	3.9
Total Xylenes	010510BTEX-LCS	150	163.049	109	85 - 115	
Total Xylenes	010510BTEX-LCSD	150	157.479	105	80 - 120	3.5
Total Xylenes	P0105015-01-MS	150	154.765	103	70 - 130	
Total Xylenes	P0105015-01-MSD	150	150.356	100	70 - 130	2.9

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	010510COND-LCS	1412	1421	101	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	010510TDS-LCS	1000	1027	103	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.'s
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P5015I-2-LCS	20	19.9	100	85 - 115	
Calcium	P0105015-01-MS	20	69	110	75 - 125	
Calcium	P0105015-01-MSD	20	66.2	96	75 - 125	13.6
Magnesium	P5015I-2-LCS	20	19.5	98	85 - 115	
Magnesium	P0105015-01-MS	20	36.1	101	75 - 125	
Magnesium	P0105015-01-MSD	20	35.4	97	75 - 125	3.5
Potassium	P5015I-2-LCS	20	19.3	97	85 - 115	
Potassium	P0105015-01-MS	20	24.6	100	75 - 125	
Potassium	P0105015-01-MSD	20	24.9	102	75 - 125	1.5
Sodium	P5015I-2-LCS	20	19.9	100	85 - 115	
Sodium	P0105015-01-MS	20	112	120	75 - 125	
Sodium	P0105015-01-MSD	20	106	90	75 - 125	28.6

ND - Not Detected

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Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

May 29, 2001

Ephraim Morris
NEL Laboratories
3021 S. 35th Street
Suite B-6
Phoenix, AZ 85034
TEL: (602) 437-0099
FAX (602) 437-2225

RE: P0105015 Order No.: 0105333

Dear Ephraim Morris:

Precision Analytical Laboratories, Inc. received 7 samples on 5/9/2001 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative. The case narrative contains a listing of common method references, data qualifiers, and any comments that may be needed regarding the analytical results.

- Analytical Report. Analysis results are reported with the compound name first, followed by the test result, report limit (Limit), any required data qualifier (Qual), units, dilution factor (DF), and date analyzed.

- QC Summary Report. This section includes quality control results for some or all of the following: method blanks, sample duplicates, sample matrix spikes, sample matrix spike duplicates, laboratory control spikes, and laboratory control spike duplicates.

If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Carlene McCutcheon

Carlene McCutcheon
Project Manager

CC:

Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT: NEL Laboratories
Project: P0105015
Lab Order: 0105333

CASE NARRATIVE

Data Qualifiers

Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See case narrative.

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CASE NARRATIVE

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.

M5 Analyte concentration was determined by the method of standard addition (MSA).

N1 See case narrative.

Q1 Sample integrity was not maintained. See case narrative.

Q2 Sample received with head space.□

Q3 Sample received with improper chemical preservation.

Q5 Sample received without chemical preservation, but preserved by the laboratory.

Q6 Sample was received above recommended temperature.

Q7 Sample inadequately dechlorinated.

Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.

Q10 Sample received in inappropriate sample container.

Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.

R2 RPD exceeded the laboratory control limit. See case narrative.

R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.

R4 RPD exceeded the method control limit. Recovery met acceptance criteria.

R5 RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

S2 Surrogate recovery was above laboratory and method acceptance limits.

S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.

S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.

S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.

S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.

S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).

T2 Cited ADHS licensed method does not contain this analyte as part of method

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0159
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 7:45:00 AM
Lab ID:	0105333-01A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LH**
Sulfate	110	10	D2	mg/L	5	5/25/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

/

Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0160
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:00:00 AM
Lab ID:	0105333-02A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LH**
Sulfate	84	10	D2	mg/L	5	5/25/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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compound list.

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992 and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL- Tucson laboratory Arizona certification number: AZ0609.
PAL- North Phoenix laboratory Arizona certification number: AZ0611.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

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Precision Analytical Laboratories, Inc.
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Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0161
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:00:00 AM
Lab ID:	0105333-03A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LH**
Sulfate	80	10	D2	mg/L	5	5/25/2001

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0162
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:10:00 AM
Lab ID:	0105333-04A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LH**
Sulfate	62	4.0	D2	mg/L	2	5/25/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0163
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:15:00 AM
Lab ID:	0105333-05A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: LH
Sulfate	< 2.0	2.0		mg/L	1	5/26/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.
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Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0164
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:20:00 AM
Lab ID:	0105333-06A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LH**
Sulfate	< 2.0	2.0		mg/L	1	5/26/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.
A Subsidiary of Aerotech Laboratories, Inc.

Date: *29-May-01*

CLIENT:	NEL Laboratories	**Client Sample ID:**	M01-0165
Lab Order:	0105333	**Tag Number:**	
Project:	P0105015	**Collection Date:**	5/7/2001 8:30:00 AM
Lab ID:	0105333-07A	**Matrix:**	AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY	**E300**					Analyst: **LH**
Sulfate	58	4.0	D2	mg/L	2	5/28/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *29-May-01*

CLIENT: NEL Laboratories
Work Order: 0105333
Project: P0105015

QC SUMMARY REPORT
Method Blank

Sample ID **MB-R10397** Batch ID: **R10397** Test Code: **E300** Units: **mg/L** Analysis Date **5/25/2001** Prep Date
Client ID: Run ID: **IC 1_010525A** SeqNo: **113613**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Sample ID **MB-R10404** Batch ID: **R10404** Test Code: **E300** Units: **mg/L** Analysis Date **5/28/2001** Prep Date
Client ID: Run ID: **IC 1_010528A** SeqNo: **113848**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Precision Analytical Laboratories, Inc.

Date: *29-May-01*

CLIENT: NEL Laboratories
Work Order: 0105333
Project: P0105015

QC SUMMARY REPORT
Sample Duplicate

Sample ID 0105333-06A DUP	Batch ID: R10397	Test Code: E300	Units: mg/L	Analysis Date 5/25/2001	Prep Date
Client ID: M01-0164		Run ID: IC 1_010525A		SeqNo: 113622	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 2.0	2	0	0	0	0	0	0	0	20	

Sample ID 0105454-02A DUP	Batch ID: R10404	Test Code: E300	Units: mg/L	Analysis Date 5/28/2001	Prep Date
Client ID:		Run ID: IC 1_010528A		SeqNo: 113857	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	6.64	2	0	0	0	0	0	6.33	4.78	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *29-May-01*

CLIENT: NEL Laboratories
Work Order: 0105333
Project: P0105015

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID 0105333-06A MS	Batch ID: R10397	Test Code: E300	Units: mg/L	Analysis Date 5/25/2001	Prep Date
Client ID: M01-0164		Run ID: IC 1_010525A		SeqNo: 113623	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	20.94	2	20	0	105	80	120	0			

Sample ID 0105454-02A MS	Batch ID: R10404	Test Code: E300	Units: mg/L	Analysis Date 5/28/2001	Prep Date
Client ID:		Run ID: IC 1_010528A		SeqNo: 113858	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	**27.22**	**2**	**20**	**6.33**	**104**	**80**	**120**	**0**			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Precision Analytical Laboratories, Inc.

Date: *29-May-01*

CLIENT: NEL Laboratories
Work Order: 0105333
Project: P0105015

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID LCS-R10397 Batch ID: R10397 Test Code: E300 Units: mg/L Analysis Date 5/25/2001 Prep Date
Client ID: Run ID: IC 1_010525A SeqNo: 113614

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	18.74	2	20	0	93.7	90	110	0			

Sample ID LCS-R10404 Batch ID: R10404 Test Code: E300 Units: mg/L Analysis Date 5/28/2001 Prep Date
Client ID: Run ID: IC 1_010528A SeqNo: 113849

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	18.49	2	20	0	92.4	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Phoenix Division - 3201 So. 35th Street, Suite B6 • Phoenix, Arizona 85034
602-437-0099 • Fax: 602-437-2225 • 888-238-2514

CHAIN OF CUSTODY

NEL Work Order: 0-1165

Project Name:	Project Number:
P0105015	P0105015
Purchase Order Number:	**Sampled By:**

Company: NE Attention: E Brian Morris

Address: [illegible] McKee

Phone Number: Fax Number:

Billing Address: Expected Due Date: 5/15/01

Requested Turnaround: X 5-day ___ 2-day ___ 1-day ___ Other

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis: Cultivate	Remarks
[illegible]	[illegible]	01	1	HP	G	X	
[illegible]	[illegible]	02	1				
[illegible]	[illegible] - 0161	03	1				
[illegible]	[illegible] - 0162	04	1				
[illegible]	[illegible] - 0163	05	1				
[illegible]	[illegible] - 0164	06	1				
[illegible]	[illegible] - 0165	07	1	11P	G		

Custody Seal intact? Y N None Temp. _____

Condition when received good

Box #1			
	DW - Drinking Water	SD - Solid	
	WW - Waste Water	AQ - Aqueous	
	OL - Oil/Organic Liquid	A - Air	

Box #2		
	A HCl	E Ice Only
	B HNO_3	F Other _____
	C H_2SO_4	G Not Preserved
	D NaOH	

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 [illegible]	[illegible]	5/9/01	R. Johnson	[illegible]	[illegible]
2					
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

LAB COPY

PO105015

elpaso

CHAIN OF CUSTODY RECORD

5/15/01 Las Vegas Lead

Page 1 of 1

PROJECT NUMBER	PROJECT NAME													CONTRACT LABORATORY
	JA1 #4 M.W.'s													
SAMPLERS: (Signature)		DATE:												
		5/7/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations + Anions	See Attached	TDS	sp cond	8021 BTEX per Darrell 5/9/01			REMARKS
01	5/7/01	0745	H_2O	MO1-0159	5		X	X	X	X	X			Received pHs out of Hold
02	5/7/01	0800	H_2O	MO1-01160	5		X	X	X	X	X			informed Darrell that pH are out of
03	5/7/01	0800	H_2O	MO1-01161	5		X	X	X	X	X			Hold. Run Anyway. per client 5/9/01
04	5/7/01	0810	H_2O	MO1-01162	5		X	X	X	X	X			
05	5/7/01	0815	H_2O	MO1-01163	5		X	X	X	X	X			
06	5/7/01	0820	H_2O	MO1-01164	5		X	X	X	X	X			
07	5/7/01	0830	H_2O	MO1-01165	5		X	X	X	X	X			
														Received voas MO1-01164

Custody Seal Intact: Y N None Temp: 6°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/7/01 1100	VIA FedEx		5/8 0925	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 9[illegible]7-3835

White - Testing La[illegible]atory Canary - EP Corp. Lab Pink - Field Sampler

08-0566 (Rev. 3/01)

SAMPLE KEY

SAMPLE NUMBER: M01-0403 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 before purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:55 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0404 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:00 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0405 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:40 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0406 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:40 SAMPLE DATE: 08/01/2001
BY: Brisbin

ORIGINAL

SAMPLE KEY

SAMPLE NUMBER: M01-0407 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #13 Dup
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:40 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0408 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: production well OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:30 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0409 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: production well DOOMS .
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:50 SAMPLE DATE: 08/01/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0410 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well # ACW 17
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:00 SAMPLE DATE: 08/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0411 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well # ACW 15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:39 SAMPLE DATE: 08/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0412 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer after sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:50 SAMPLE DATE: 08/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0413 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:00 SAMPLE DATE: 08/02/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0414 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Field Blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:00 SAMPLE DATE: 08/02/2001
BY: Brisbin

JAL #4 PLANT
WATER LEVELS
LAB NUMBERS
August 2001

DATE	MONITOR WELL #	DEPTH TO PRODUCT	DEPTH TO WATER	LAB NUMBER WATER	DUP SAMPLE	
08/01/2001	#3EMP BEFORE			M01-0403		
08/01/2001	BAILER BEFORE			M01-0404		
08/02/2001	FIELD BLANK			M01-0414		
08/01/2001	ACW#1	0	105.89'			
08/01/2001	ACW#5	0	103.46'			
08/01/2001	ACW#6	0	107.87'			
08/01/2001	ACW#9	0	110.70'			
08/01/2001	ACW#10	0	106.76'			
08/01/2001	ACW#11	0	106.40'			
08/01/2001	ACW#12	0	109.76'	M01-0405		
08/01/2001	ACW#13	0	99.61'	M01-0406	M01-0407	
08/02/2001	ACW#15	0	100.75'	M01-0411		
08/02/2001	ACW#17	0	102.58'	M01-0410		
08/01/2001	DOOM'S			M01-0409		
08/01/2001	OXY			M01-0408		
08/02/2001	#3EMP AFTER			M01-0412		
08/02/2001	BAILER AFTER			M01-0413		

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 NEL ORDER ID: P0108005
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/2/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.

Some QA results have been flagged as follows:

Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.

Stan Van Wagenen
Laboratory Manager

8/13/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0403**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-01

Cations by EPA 6010A

MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	35	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	9.7	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	5.3	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	26	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	75	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

D. F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

Cations by EPA 6010A

MATRIX: Aqueous

CLIENT ID: **M01-0404**
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-02

ANALYST: JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0405**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-03
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	180	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	64	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	9.6	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	28	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	140	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

L[redacted]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0406**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
[illegible]ECT #:	NA	NEL SAMPLE ID:	P0108005-04
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	46	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	16	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	6.1	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	29	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	86	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

[illegible]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0407**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-05
[redacted]:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	42	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	14	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	6.0	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	30	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	80	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

[redacted]Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010806SIB-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
\ECT #:	NA	NEL SAMPLE ID:	0803-2.2a-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
[redacted]: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0403
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-01

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	150	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	71	5.	50	EPA 300.0	mg/L	8/9/01
Fluoride	1.7	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	130	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	8/2/01
pH	7.40	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	23.3	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	622	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	35	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	418	15.	1	SM 2540 C	mg/L	8/6/01

[redacted]eporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0404
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-02

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	1.6	1.	10	EPA 300.0	mg/L	8/2/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	ND	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	8/2/01
pH	6.21	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	22.5	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	1.82	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	ND	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	8/6/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0405
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-03

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	140	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	490	25.	250	EPA 300.0	mg/L	8/10/01
Fluoride	0.97	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	710	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	8/2/01
pH	7.34	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	24.6	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	2080	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	120	10.	100	EPA 300.0	mg/L	8/9/01
Total Dissolved Solids	1290	30.	2	SM 2540 C	mg/L	8/6/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0406
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-04

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	170		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	170	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	42	1.	10	EPA 300.0	mg/L	8/2/01
Fluoride	1.4	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	180	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	1.6	1.	10	EPA 300.0	mg/L-N	8/2/01
pH	7.73	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	23.3	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	694	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	98	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	402	15.	1	SM 2540 C	mg/L	8/6/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: M01-0407
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108005-05

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	45	1.	10	EPA 300.0	mg/L	8/2/01
Fluoride	1.3	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	160	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	1.6	1.	10	EPA 300.0	mg/L-N	8/2/01
pH	7.73	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	23.6	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	690	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	98	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	439	15.	1	SM 2540 C	mg/L	8/6/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
ECT #: NA

Non-Metals

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010802BR-BLK

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
ECT #:	NA	NEL SAMPLE ID:	010802CL-BLK
:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010802NO3-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	8/2/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010802SO4-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.5	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010806TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/6/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809ALK-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010809F-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809SO4-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010810CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/10/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0403**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	4.6 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	87	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0404**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	76	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0405**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-03
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	79	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0406**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-04

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	83	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0407**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108005-05

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	74	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010803BTEXA-BLK
[redacted]:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
		ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	89	60 - 120

ND - Not Detected

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EL PASO NATURAL GAS

Due 8/9

CHAIN OF CUSTODY RECORD

Las Vegas Lead

P0108005

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAI #4	Ila Bruder	8/1/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations + Anions	SEE ATTACHED	TDS	sp cond.	BTEX
01	8/1/01	1055	H_2O	MO1-0403	5		X	X	X	X	X
02	8/1/01	1100	H_2O	MO1-0404	5		X	X	X	X	X
03	8/1/01	1240	H_2O	MO1-0405	5		X	X	X	X	X
04	8/1/01	1505	H_2O	MO1-0406	5		X	X	X	X	X
05	8/1/01	1505	H_2O	MO1-0407	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

~~Run 8260 BTEX 8-2-01~~
~~1230~~ Per Robin a
Per Steve B. Run
8021 BTEX 8-2-01/1330

Custody Seal Intact? Y N None
Condition when received good

Temp. 4°C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/1/01 1730		Fed Ex	8/2 9:45 am	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0506 (Rev 10-93)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Jal #4 Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0108006

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/2/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.

Some QA results have been flagged as follows:

Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.

Stan Van Wagenen
Laboratory Manager

8/13/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0408**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108006-01
[redacted]:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	68	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	21	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	4.3	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	32	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	66	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

[redacted]ilution Factor

N[redacted]Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0409**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108006-02
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	44	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	15	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	5.0	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Silica	26	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	66	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

D.F. = Dilution Factor

ND = Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010806SIB-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0803-2.1a-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/3/01	8/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	8/3/01	8/8/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0408
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108006-01
[redacted]:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	150		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	150	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	120	5.	50	EPA 300.0	mg/L	8/9/01
Fluoride	1.0	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	260	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	1.0	0.5	10	SM 4500-NO3	mg/L-N	8/2/01
pH	7.70	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	22.5	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	807	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	57	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	532	15.	1	SM 2540 C	mg/L	8/6/01

[redacted]eporting Limit
D[redacted]ilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: M01-0409
DATE SAMPLED: 8/1/01
NEL SAMPLE ID: P0108006-02

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	190		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	190	25.	1	SM 2320 B	mg/L	8/9/01
Bromide	ND	2.	10	EPA 300.0	mg/L	8/2/01
Chloride	28	1.	10	EPA 300.0	mg/L	8/2/01
Fluoride	0.92	0.4	1	SM 4500-F C	mg/L	8/9/01
Hardness, Total (as CaCO3)	170	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	1.2	0.5	10	SM 4500-NO3	mg/L-N	8/2/01
pH	7.72	2.	1	EPA 150.1	pH Units	8/2/01
pH Temperature	22.7	1.	1	EPA 150.1	°C	8/2/01
Specific Conductance	618	1.	1	SM 2510 B	µS/cm	8/2/01
Sulfate	75	1.	10	EPA 300.0	mg/L	8/2/01
Total Dissolved Solids	374	15.	1	SM 2540 C	mg/L	8/6/01

R - Reporting Limit
D - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010802BR-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
[redacted]: Inorganic Non-Metals
MATRIX: Aqueous

CLIENT ID: M01-0410
DATE SAMPLED: 8/2/01
NEL SAMPLE ID: P0108008-01

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	170		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	170	25.	1	SM 2320 B	mg/L	8/10/01
Bromide	0.39	0.2	1	EPA 300.0	mg/L	8/6/01
Chloride	82	50.	500	EPA 300.0	mg/L	8/9/01
Fluoride	1.3	0.4	1	SM 4500-F C	mg/L	8/10/01
Hardness, Total (as CaCO3)	150	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	0.98	0.05	1	SM 4500-NO3	mg/L-N	8/3/01
pH	8.03	2.	1	EPA 150.1	pH Units	8/3/01
pH Temperature	22.9	1.	1	EPA 150.1	°C	8/3/01
Specific Conductance	627	1.	1	SM 2510 B	µS/cm	8/7/01
Sulfate	75	50.	500	EPA 300.0	mg/L	8/9/01
Total Dissolved Solids	397	15.	1	SM 2540 C	mg/L	8/7/01

[redacted]eporting Limit
D[redacted]Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0411
DATE SAMPLED: 8/2/01
NEL SAMPLE ID: P0108008-02

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	8/10/01
Bromide	0.42	0.2	1	EPA 300.0	mg/L	8/6/01
Chloride	70	10.	100	EPA 300.0	mg/L	8/9/01
Fluoride	1.6	0.4	1	SM 4500-F C	mg/L	8/10/01
Hardness, Total (as CaCO3)	180	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	1.9	0.05	1	SM 4500-NO3	mg/L-N	8/3/01
pH	7.90	2.	1	EPA 150.1	pH Units	8/3/01
pH Temperature	22.8	1.	1	EPA 150.1	°C	8/3/01
Specific Conductance	771	1.	1	SM 2510 B	µS/cm	8/7/01
Sulfate	110	10.	100	EPA 300.0	mg/L	8/9/01
Total Dissolved Solids	476	15.	1	SM 2540 C	mg/L	8/7/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0412
DATE SAMPLED: 8/2/01
NEL SAMPLE ID: P0108008-03

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	8/10/01
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/6/01
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/6/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/10/01
Hardness, Total (as CaCO3)	ND	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/3/01
pH	6.54	2.	1	EPA 150.1	pH Units	8/3/01
pH Temperature	23.1	1.	1	EPA 150.1	°C	8/3/01
Specific Conductance	1.66	1.	1	SM 2510 B	µS/cm	8/7/01
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/6/01
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	8/7/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0413
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108008-04

Inorganic Non-Metals

MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	130		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	130	25.	1	SM 2320 B	mg/L	8/10/01
Bromide	0.48	0.2	1	EPA 300.0	mg/L	8/6/01
Chloride	74	10.	100	EPA 300.0	mg/L	8/9/01
Fluoride	1.7	0.4	1	SM 4500-F C	mg/L	8/10/01
Hardness, Total (as CaCO3)	120	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/3/01
pH	8.22	2.	1	EPA 150.1	pH Units	8/3/01
pH Temperature	22.9	1.	1	EPA 150.1	°C	8/3/01
Specific Conductance	516	1.	1	SM 2510 B	µS/cm	8/7/01
Sulfate	52	10.	100	EPA 300.0	mg/L	8/9/01
Total Dissolved Solids	303	15.	1	SM 2540 C	mg/L	8/7/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M01-0414
DATE SAMPLED: 8/2/01
NEL SAMPLE ID: P0108008-05

Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	8/10/01
Bromide	0.13	0.2	1	EPA 300.0	mg/L	8/6/01
Chloride	6.5	1.	10	EPA 300.0	mg/L	8/9/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/10/01
Hardness, Total (as CaCO3)	ND	2.	1	EPA 6010	mg/L	8/8/01
Nitrate, as N	0.62	0.05	1	SM 4500-NO3	mg/L-N	8/3/01
pH	6.04	2.	1	EPA 150.1	pH Units	8/3/01
pH Temperature	22.8	1.	1	EPA 150.1	°C	8/3/01
Specific Conductance	33.2	1.	1	SM 2510 B	µS/cm	8/7/01
Sulfate	1.0	0.1	1	EPA 300.0	mg/L	8/6/01
Total Dissolved Solids	28	15.	1	SM 2540 C	mg/L	8/9/01

R. L. - Reporting Limit
D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010803NO32-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/3/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010806BR-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010806CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010806SO4-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
P ECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010807TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/7/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P ECT #:	NA	NEL SAMPLE ID:	010809CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
P)ECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010809SO4-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010810ALK-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	8/10/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	8/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P[illegible]ECT #:	NA	NEL SAMPLE ID:	010810F-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/10/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0410**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108008-01

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
DILUTION:	1	ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0411**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108008-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
DILUTION:	1	ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	67	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0412**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
P ECT #:	NA	NEL SAMPLE ID:	P0108008-03

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
DILUTION:	1	ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	73	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0413
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108008-04

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
DILUTION:	1	ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	70	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0414**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108008-05

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
DILUTION:	1	ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	74	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P[illegible]JECT #:	NA	NEL SAMPLE ID:	010813BTEXA-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/13/01
		ANALYZED:	8/13/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	79	60 - 120

ND - Not Detected

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EL PASO NATURAL GAS

PUR 46/10

CHAIN OF CUSTODY RECORD

Las Vegas Lead

PO108008

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JOL #1		8/2/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations & Anions	TDS	Sp. Cond.	BTEX	SEE ATTACHED
01	8/2/01	0900	H2O	MO1-0410	5		X	X	X	X	X
02	8/2/01	1039	H2O	MO1-0411	5		X	X	X	X	X
03	8/2/01	1050	H2O	MO1-0412	5		X	X	X	X	X
04	8/2/01	1100	H2O	MO1-0413	5		X	X	X	X	X
05	8/2/01	1200	H2O	MO1-0414	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Run 8021 BTEX per Steve B. 8-2-01

Received pH's out of Hold Time OK TO Run 8-3-01 per Steve

Custody Seal Intact? Y N None

Temp. 6°C

Condition when received good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/2/01 1500		Fed-X	8/3 1000	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED AT LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME

☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-056e (Rev. 10)

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
P IECT #:	NA	NEL SAMPLE ID:	010802CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010802NO3-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/2/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010802SO4-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.5	1	EPA 300.0	mg/L	8/2/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
[illegible]ECT #:	NA	NEL SAMPLE ID:	010806TDS-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 010809ALK-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	8/9/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809CL-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010809F-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/9/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0408**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108006-01

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND Jc	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	74	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0409**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	8/1/01
PROJECT #:	NA	NEL SAMPLE ID:	P0108006-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
DILUTION:	1	ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	*ND Jc*	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	63	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010803BTEXA-BLK

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	8/3/01
		ANALYZED:	8/3/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	89	60 - 120

ND - Not Detected

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EL PASO NATURAL GAS

Date 8/9

CHAIN OF CUSTODY RECORD

Las Vegas lead

PO108006

Page ___ of ___

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE
	JAI #4 Wells		8/1/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations & Anions	See Attached	TDS	Spec. Cond.	BTEX
01	8/1/01	1530	H2O	M01-0408	5		X	X	X	X	X
02	8/1/01	1550	H2O	M01-0409	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Run 8260 BTEX 8-2-01

1290 Per Robin

Per Steve B. Run

8021 BTEX 8-2-01/1330

Custody Seal Intact? Y N None

Condition when received good

Temp. 4°C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/1/01 1730	Vice	Fed Ex	8/2 0945	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME.

☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0108008

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/3/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

J - This concentration should be considered an estimate due laboratory control sample failure.

Sam Van Wagenen
Laboratory Manager

8/14/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0410**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
[redacted]CT #:	NA	NEL SAMPLE ID:	P0108008-01
[redacted]	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	38	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	13	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	9.2	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Silica	35	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	76	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

[redacted]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0411**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
P[redacted]CT #:	NA	NEL SAMPLE ID:	P0108008-02
[redacted]	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	45	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	17	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	5.8	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Silica	35	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	89	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

[redacted]

L[redacted]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0412**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
P[redacted]CT #:	NA	NEL SAMPLE ID:	P0108008-03
	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	0.56	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	6.7	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

[redacted]ilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

Cations by EPA 6010A

MATRIX: Aqueous

CLIENT ID: **M01-0413**
DATE SAMPLED: 8/2/01
NEL SAMPLE ID: P0108008-04

ANALYST: JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	34	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	8.3	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	4.7	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Silica	25	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	59	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

D. F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0414**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/2/01
[redacted]CT #:	NA	NEL SAMPLE ID:	P0108008-05
[redacted]	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	0.51	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01
Sodium	6.0	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

[redacted]ilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	010806SIB-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/6/01	8/6/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
P[illegible]CT #:	NA	NEL SAMPLE ID:	0806-1.1b-BLK

Cations by EPA 6010A

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01
Potassium	ND	2. mg/L	1	EPA 6010	8/6/01	8/8/01
Sodium	ND	0.5 mg/L	1	EPA 6010	8/6/01	8/8/01

D.F. - Dilution Factor

ND - Not Detected

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JAL No. 4

Oct-2001

Monitoring Well Survey Information

Well Number	Screened Interval (Feet)	Top of Casing (Feet MSL)
ACW-01	110-130	3,300.87
ACW-05	105-115	3,294.75
ACW-06	110-120	3,300.53
ACW-09	140-160	3,302.47
ACW-10	140-160	3,297.57
ACW-11	140-160	3,299.33
ACW-12	150-170	3,299.56
ACW-13	153-173	3,289.46
ACW-14	157-177	3,291.18
ACW-17	150-170	3,290.54
ACW-2a	98-118	3,300.88
ACW-3	112-132	3,300.34
ACW-4	154-169	3,299.48
ACW-7	105-115	3,295.36
ACW-8	140-173	3,297.27
ENSR-1	123-148	3,305.40
ENSR-2	121-148	3,301.60
ENSR-3	123-148	3,303.80
P.W.#1		
PTP-1	110-130	3,304.41

Water Level Measurements

Well Number	Date Measured	Depth to Water (Feet)
ACW-01	10/22/2001	106.05
ACW-05	10/24/2001	103.70
ACW-06	10/24/2001	108.09
ACW-09	10/25/2001	112.17
ACW-10	10/25/2001	107.01
ACW-11	10/23/2001	106.57
ACW-12	10/25/2001	109.99
ACW-13	10/25/2001	99.61
ACW-14	10/24/2001	100.75
ACW-17	10/25/2001	102.56
ACW-2a	10/22/2001	106.85
ACW-3	10/23/2001	106.15
ACW-4	10/22/2001	107.99
ACW-7	10/24/2001	103.35
ACW-8	10/24/2001	104.60
ENSR-1	10/23/2001	108.26
ENSR-2		
ENSR-3	10/23/2001	107.75
P.W.#1		
PTP-1	10/23/2001	108.49

Groundwater Elevations

Well Number	Top of Water Table (Feet MSL)
ACW-01	3,194.82
ACW-05	3,191.05
ACW-06	3,192.44
ACW-09	3,190.30
ACW-10	3,190.56
ACW-11	3,192.76
ACW-12	3,189.57
ACW-13	3,189.85
ACW-14	3,190.43
ACW-17	3,187.98
ACW-2a	3,194.03
ACW-3	3,194.19
ACW-4	3,191.49
ACW-7	3,192.01
ACW-8	3,192.67
ENSR-1	3,197.14
ENSR-2	3,301.60
ENSR-3	3,196.05
P.W.#1	0.00
PTP-1	3,195.92

SAMPLE KEY

SAMPLE NUMBER: M01-0465 LOCATION: Jal #4
MATRIX:
SAMPLE DESCRIPTION: EMP #3 pump blank before purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:20 SAMPLE DATE: 10/22/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0466 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:25 SAMPLE DATE: 10/22/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0467 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:35 SAMPLE DATE: 10/22/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0468 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#2A
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:25 SAMPLE DATE: 10/22/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0469 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:18 SAMPLE DATE: 10/22/2001
BY: Brisbin

ORIGINAL

SAMPLE KEY

SAMPLE NUMBER: M01-0470 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ENSR #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:20 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0471 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ENSR #1 Dup
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:20 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0472 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ENSR #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:15 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0473 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well PTP #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:50 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0474 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:57 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0475 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #8
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:00 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0476 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #11
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:20 SAMPLE DATE: 10/23/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0477 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW #7
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:25 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0478 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 middle of purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:45 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0479 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer blank middle of sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:55 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0480 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#6
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:00 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0481 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:25 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0482 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:02 SAMPLE DATE: 10/24/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0483 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#9
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:07 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0484 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#9 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:07 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0485 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:20 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0486 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:40 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0487 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ACW#10
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:03 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0488 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Production Well #OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:45 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0489 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well #17
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:25 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0490 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:25 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0491 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Field Blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:30 SAMPLE DATE: 10/25/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0492 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:15 SAMPLE DATE: 10/29/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0493 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer after sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:20 SAMPLE DATE: 10/29/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0494 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Field Blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 10/29/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0495 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: ENSR #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:00 SAMPLE DATE: 10/29/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0496 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Production Well # 1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:25 SAMPLE DATE: 10/29/2001
BY: Brisbin

SAMPLE KEY

SAMPLE NUMBER: M01-0497 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Production Well # Dooms
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 10/29/2001
BY: Brisbin

JAL #4 PLANT
WATER LEVELS

October 2001

DATE	MONITOR WELL #	DEPTH TO PRODUCT	DEPTH TO WATER
10/23/2001	ENSR #1	0	108.26'
10/29/2001	ENSR #2		well pumping
10/23/2001	ENSR #3	0	107.75'
10/23/2001	PTP #1	0	108.49'
10/22/2001	ACW # 1	0	106.05'
10/22/2001	ACW # 2A	0	106.85'
10/23/2001	ACW # 3	0	106.15'
10/22/2001	ACW # 4	0	107.99'
10/24/2001	ACW # 5	0	103.70'
10/24/2001	ACW # 6	0	108.09'
10/24/2001	ACW # 7	0	103.35'
10/24/2001	ACW # 8	0	104.60'
10/25/2001	ACW # 9	0	112.17
10/25/2001	ACW # 10	0	107.01'
10/23/2001	ACW # 11	0	106.57'
10/25/2001	ACW # 12	0	109.99'
10/25/2001	ACW # 13	0	99.61'
10/25/2001	ACW #14		well pumping
10/24/2001	ACW #15	0	100.75'
10/25/2001	ACW#17	0	102.56'
10/29/2001	DOOMS		
10/25/2001	OXY		

REMARKS:

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110040

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/23/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

JI - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

1/14/02 rev-1 55MC
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0465**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	0.045	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	0.20	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	32	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	1.4	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	7.9	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	0.056	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	4.1	2. mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]ica	25	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
Sodium	58	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

[illegible]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0466**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	ND	2. mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]ica	ND	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
Sodium	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

[illegible]F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0467**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-03
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	0.31	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	0.81	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	1.5	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	290	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	1.5	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	110	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	0.58	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Mercury	0.00086	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01
Molybdenum	0.032	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	32	2. mg/L	1	EPA 6010	10/24/01	10/25/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
[redacted]ca	30	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
Sodium	7300	5. mg/L	10	EPA 6010	10/24/01	10/25/01
Uranium	0.0066	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

[redacted]. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0468**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
[redacted]OJECT #:	NA	NEL SAMPLE ID:	P0110040-04
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.16	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	1.4	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	0.26	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	1.4	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	0.016	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	3.3	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	0.40	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	0.23	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	0.0062	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Mercury	0.00066	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01
Molybdenum	0.053	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	8.9	2. mg/L	1	EPA 6010	10/24/01	10/25/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
[redacted]ica	36	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
Sodium	5200	5. mg/L	10	EPA 6010	10/24/01	10/25/01
Uranium	0.027	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

[redacted]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0469**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-05
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	0.21	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	0.24	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	0.92	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	82	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	2.3	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	60	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	0.18	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	11	2. mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]ica	26	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
Sodium	3000	5. mg/L	10	EPA 6010	10/24/01	10/25/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

[illegible]F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011031SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	10/31/01	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	1024-2.2-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/24/01	10/25/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/24/01	10/25/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/24/01	10/25/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/24/01	10/25/01
Potassium	ND	2. mg/L	1	EPA 6010	10/24/01	10/25/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/24/01	10/25/01
[illegible]um	ND	0.5 mg/L	1	EPA 6010	10/24/01	10/25/01
Zinc	ND	0.1 mg/L	1	EPA 6010	10/24/01	10/25/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L0245HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/29/01	10/29/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0465
DATE SAMPLED: 10/22/01
NEL SAMPLE ID: P0110040-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	130		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity, Total as CaCO3	130	25.	1	SM 2320 B	mg/L	10/23/01
Bromide	ND	2.	10	EPA 300.0	mg/L	10/23/01
Chloride	66	20.	200	EPA 300.0	mg/L	10/29/01
Fluoride	1.8	0.4	1	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	110	2.	1	EPA 6010	mg/L	10/25/01
Nitrate, as N	ND	1.	10	EPA 300.0	mg/L-N	10/23/01
pH	7.27	2.	1	EPA 150.1	pH Units	10/23/01
pH Temperature	21.5	1.	1	EPA 150.1	°C	10/23/01
Specific Conductance	501	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	24	1.	10	EPA 300.0	mg/L	10/23/01
Total Dissolved Solids	375	15.	1	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0466
DATE SAMPLED: 10/22/01
NEL SAMPLE ID: P0110040-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	10/23/01
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/23/01
Chloride	0.16	0.1	1	EPA 300.0	mg/L	10/23/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	ND	2.	1	EPA 6010	mg/L	10/25/01
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/23/01
pH	5.84	2.	1	EPA 150.1	pH Units	10/23/01
pH Temperature	20.5	1.	1	EPA 150.1	°C	10/23/01
Specific Conductance	1.67	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/23/01
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0467
DATE SAMPLED: 10/22/01
NEL SAMPLE ID: P0110040-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	970		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity, Total as CaCO3	970	25.	1	SM 2320 B	mg/L	10/23/01
Bromide	ND	20.	100	EPA 300.0	mg/L	10/23/01
Chloride	13000	1000.	10000	EPA 300.0	mg/L	10/31/01
Fluoride	8.2	0.8	2	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	1200	2.	1	EPA 6010	mg/L	10/25/01
Nitrate, as N	ND	10.	100	EPA 300.0	mg/L-N	10/23/01
pH	7.15	2.	1	EPA 150.1	pH Units	10/23/01
pH Temperature	20.2	1.	1	EPA 150.1	°C	10/23/01
Specific Conductance	35300	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	200	10.	100	EPA 300.0	mg/L	10/23/01
Total Dissolved Solids	21400	1500.	100	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PRC T #: NA

CLIENT ID: M01-0468
DATE SAMPLED: 10/22/01
NEL SAMPLE ID: P0110040-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	1300		5	SM 2320 B	mg/L	10/26/01
Alkalinity - Carbonate as CaCO3	2400		5	SM 2320 B	mg/L	10/26/01
Alkalinity - Hydroxide as CaCO3	ND		5	SM 2320 B	mg/L	10/26/01
Alkalinity, Total as CaCO3	3700	125.	5	SM 2320 B	mg/L	10/26/01
Bromide	ND	10.	50	EPA 300.0	mg/L	10/23/01
Chloride	4600	250.	2500	EPA 300.0	mg/L	10/29/01
Fluoride	11	1.6	4	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	9.2	2.	1	EPA 6010	mg/L	10/25/01
Nitrate, as N	ND	5.	50	EPA 300.0	mg/L-N	10/23/01
pH	9.88	2.	1	EPA 150.1	pH Units	10/23/01
pH Temperature	19.8	1.	1	EPA 150.1	°C	10/23/01
Specific Conductance	19900	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	6.5	0.1	1	EPA 300.0	mg/L	10/29/01
Total Dissolved Solids	12100	300.	20	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PRO[illegible] I #: NA

CLIENT ID: M01-0469
DATE SAMPLED: 10/22/01
NEL SAMPLE ID: P0110040-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	600		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity, Total as CaCO3	600	25.	1	SM 2320 B	mg/L	10/23/01
Bromide	ND	5.	25	EPA 300.0	mg/L	10/23/01
Chloride	4400	250.	2500	EPA 300.0	mg/L	10/29/01
Fluoride	2.5	0.4	1	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	450	2.	1	EPA 6010	mg/L	10/25/01
Nitrate, as N	ND	2.5	25	EPA 300.0	mg/L-N	10/23/01
pH	7.92	2.	1	EPA 150.1	pH Units	10/23/01
pH Temperature	20.3	1.	1	EPA 150.1	°C	10/23/01
Specific Conductance	12400	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	380	10.	100	EPA 300.0	mg/L	10/29/01
Total Dissolved Solids	6580	150.	10	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011023ALK-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/23/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/23/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PRO[illegible]T #:	NA	NEL SAMPLE ID:	011023BR-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/23/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011023CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/23/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 011023NO3-BLK

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/23/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PRC # :	NA	NEL SAMPLE ID:	011023SO4-BLK
TEST:	***Non-Metals***		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/23/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PRC # :	NA	NEL SAMPLE ID:	011025F-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/25/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

LIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
ROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
RC T #:	NA	NEL SAMPLE ID:	011025TDS2-BLK
EST:	**Non-Metals**		

'ARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
'otal Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/25/01

).F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

LIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
RO[illegible]T ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
RC .'#:	NA	NEL SAMPLE ID:	011026ALK-BLK
'EST:	Non-Metals		

'ARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
\lkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/26/01
\lkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/26/01
\lkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/26/01
\lkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/26/01

).F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	*El Paso Natural Gas Company*	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PR T #:	NA	NEL SAMPLE ID:	011029SO4-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK

Test: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0465
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	3.0 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	97	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0466
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	107	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0467
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-03

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result		Reporting Limit
Benzene	12	µg/L	2. µg/L
Toluene	2.9	µg/L	2. µg/L
Ethylbenzene	32	µg/L	2. µg/L
Total Xylenes	100	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	101	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0468**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-04

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result		Reporting Limit
Benzene	39	µg/L	2. µg/L
Toluene	34	µg/L	2. µg/L
Ethylbenzene	30	µg/L	2. µg/L
Total Xylenes	57	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	60	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0469
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/22/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110040-05
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result		Reporting Limit
Benzene	ND		2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	11	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	91	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011030BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
		ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	118	60 - 120

ND - Not Detected

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elpaso

Dilco 10/30

CHAIN OF CUSTODY RECORD

Las Vegas Lead

PO110040

Page ____ of ____

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Dal #4 Monitor Wells												
SAMPLERS (Signature)	DATE												
	10/22/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			ANIONS CATIONS SEE ATTACHED	TDS SP. COND.	BTEX	Fam, Mn, Fe, Zn, Ni, Cr, Ba, Ag, Se, Cu, Hg, Pb, As, Cd, Ba, Ag, Cd.			REMARKS
	10/22/01	1020	H2O	MO1-04665	5	G	X	X	X	X	X	X	Rum 8020 Btex per Steve Reisbeck
	10/22/01	1085	H2O	MO1-04666	5	G	X	X	X	X	X	X	10/23/01 m
	10/22/01	1235	H2O	MO1-04667	5	G	X	X	X	X	X	X	
	10/22/01	1-125	H2O	MO1-04668	5	G	X	X	X	X	X	X	
	10/22/01	1518	H2O	MO1-04669	5	G	X	X	X	X	X	X	

Custody Seal Intact? Y N (None) Temp 6°C

Condition when received (Cool)

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/22/01 1730	Via Fed-X		10/23 0930	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08-0568 (Rev. 3.01)

NEL LABORATORIES
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Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110044

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/24/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

FOR SKV

Stan Van Wagenen
Laboratory Manager

11/2/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0470
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110044-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	5100	200.	2000	EPA 300.0	mg/L	10/31/01
Specific Conductance	15300	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	8050	150.	10	SM 2540 C	mg/L	10/25/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0471
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110044-02
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	3600	100.	1000	EPA 300.0	mg/L	10/31/01
Specific Conductance	11400	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	6070	150.	10	SM 2540 C	mg/L	10/25/01

R. eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0472
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110044-03
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	620	100.	1000	EPA 300.0	mg/L	10/31/01
Specific Conductance	2480	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	1300	30.	2	SM 2540 C	mg/L	10/25/01

R.. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0473
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110044-04
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	550	100.	1000	EPA 300.0	mg/L	11/1/01
Specific Conductance	2370	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	1280	30.	2	SM 2540 C	mg/L	10/25/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0474
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110044-05
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	7100	1000.	10000	EPA 300.0	mg/L	11/1/01
Specific Conductance	18800	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	10600	300.	20	SM 2540 C	mg/L	10/25/01

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011025TDS2-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/25/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011101CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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elpaso

Due 10/31

CHAIN OF CUSTODY RECORD

Cas Vegas Fed

PO1100 44

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY
	JAI #4 Monitor Wells								
SAMPLERS: (Signature)	DATE: 10/23/01								
LAB ID / DATE / TIME / MATRIX / SAMPLE NUMBER				Cl	TPS + Sand				REMARKS
01 / 10/23/01 / 1020 / H_2O	MO1-0470	1	G	X	X				
02 / 10/23/01 / 1020 / H_2O	MO1-0471	1	G	X	X				
03 / 10/23/01 / 1115 / H_2O	MO1-0472	1	G	X	X				
04 / 10/23/01 / 1150 / H_2O	MO1-0473	1	G	X	X				
05 / 10/23/01 / 1257 / H_2O	MO1-0474	1	G	X	X				

Custody Seal Broken

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/23/01 1700	VIA Fed X		10/24 1000	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

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FM-08-0566 (Rev. 3/01)

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Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Jal #4 M.W. NEL ORDER ID: P0110043
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/24/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

M3 - The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

FOR SKV

Stan Van Wagenen
Laboratory Manager

11/2/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

CLIENT ID: **M01-0475**
DATE SAMPLED: 10/23/01
NEL SAMPLE ID: P0110043-01
ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Barium	0.12	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Boron	0.62	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Calcium	410	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Iron	2.6	0.05 mg/L	0.5	EPA 6010	10/25/01	10/26/01
Lead	0.12	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Magnesium	200	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
Manganese	1.9	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/25/01	10/26/01
Potassium	58	2. mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]enium	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]ica	26	1. mg/L	1	SM 4500Si-D	10/26/01	10/26/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/25/01	10/26/01
Sodium	11000	50. mg/L	100	EPA 6010	10/25/01	10/26/01
Uranium	0.037	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01

[illegible]. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

CLIENT ID: **M01-0476**
DATE SAMPLED: 10/23/01
NEL SAMPLE ID: P0110043-02
ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Barium	0.26	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Boron	0.36	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Calcium	2500	50. mg/L	100	EPA 6010	10/25/01	10/26/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Iron	1..4	0.05 mg/L	0.5	EPA 6010	10/25/01	10/26/01
Lead	0.53	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Magnesium	840	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
Manganese	0.38	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Mercury	0.00049	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/25/01	10/26/01
Potassium	57	2. mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]ca	31	1. mg/L	1	SM 4500Si-D	10/26/01	10/26/01
Silver	ND	0.01 mg/L	0.5	EPA 6010	10/25/01	10/26/01
Sodium	9500	50. mg/L	100	EPA 6010	10/25/01	10/26/01
Uranium	0.068	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01

[illegible] - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
TEST:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011026SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	10/26/01	10/26/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	1025-3.1-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Iron	ND	0.05 mg/L	0.5	EPA 6010	10/25/01	10/26/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/25/01	10/26/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/25/01	10/26/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/25/01	10/26/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/25/01	10/26/01
Potassium	ND	2. mg/L	1	EPA 6010	10/25/01	10/26/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]ium	ND	0.5 mg/L	1	EPA 6010	10/25/01	10/26/01
[illegible]nc	ND	0.1 mg/L	1	EPA 6010	10/25/01	10/26/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P0055HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
CLIENT ID: M01-0475
DATE SAMPLED: 10/23/01
NEL SAMPLE ID: P0110043-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	350		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	350	25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND	20.	100	EPA 300.0	mg/L	10/24/01
Chloride	11000	1000.	10000	EPA 300.0	mg/L	10/31/01
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	1800	5.	1	SM 2340 C	mg/L	10/27/01
Nitrate, as N	ND	10.	100	EPA 300.0	mg/L-N	10/24/01
pH	7.02	2.	1	EPA 150.1	pH Units	10/24/01
pH Temperature	21.6	1.	1	EPA 150.1	°C	10/24/01
Specific Conductance	33400	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	590	10.	100	EPA 300.0	mg/L	10/24/01
Total Dissolved Solids	20000	1500.	100	SM 2540 C	mg/L	10/26/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

CLIENT ID: M01-0476
DATE SAMPLED: 10/23/01
NEL SAMPLE ID: P0110043-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND	20.	100	EPA 300.0	mg/L	10/24/01
Chloride	17000	1000.	10000	EPA 300.0	mg/L	10/31/01
Fluoride	0.41	0.4	1	SM 4500-F C	mg/L	10/25/01
Hardness, Total (as CaCO3)	9700	5.	1	SM 2340 C	mg/L	10/27/01
Nitrate, as N	ND	10.	100	EPA 300.0	mg/L-N	10/24/01
pH	6.55	2.	1	EPA 150.1	pH Units	10/24/01
pH Temperature	21.5	1.	1	EPA 150.1	°C	10/24/01
Specific Conductance	47800	1.	1	SM 2510 B	µS/cm	10/25/01
Sulfate	800	10.	100	EPA 300.0	mg/L	10/24/01
Total Dissolved Solids	32900	1500.	100	SM 2540 C	mg/L	10/26/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011024BR-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/24/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011024NO3-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/24/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011024SO4A-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/24/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011025F-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/25/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 M.W.
PROJECT #: NA
TEST: **Non-Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011030ALK-BLK

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0475
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110043-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result		Reporting Limit
Benzene	41	µg/L	2. µg/L
Toluene	4.8	µg/L	2. µg/L
Ethylbenzene	3.1	µg/L	2. µg/L
Total Xylenes	ND		2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	112	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0476
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	10/23/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110043-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result		Reporting Limit
Benzene	59	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	ND		2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	107	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 M.W.	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011030BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
		ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	118	60 - 120

ND - Not Detected

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elpaso

Due 10/31

CHAIN OF CUSTODY RECORD

Las Vegas Lead

P01100 43

Page ... of ...

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	SAMPLERS (Signature)	DATE:					SEE Attached	Anions Anions	BTEX (8020)	Iron, Copper, Manganese Cadmium Zinc	Boron	As, Se, Ca, Pb, Hg, Ba, Ag, Cr	
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER									REMARKS
01	10/23/01	1400	H_2O	MO1-0475	5	G	X	X	X	X	X	X	
02	10/23/01	1520	H_2O	MO1-0476	5	G	X	X	X	X	X	X	

Custody Seal Intact? Y N None Temp. 6°C

Condition when received good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/23/01 1700	Via Fed-X		10/24 1000	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO :

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08-0566 (Rev 3.01)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110047

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/25/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

H3 - Sample was received and analyzed past holding time.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

H3 - Sample was received and analyzed past holding time.

Stan Van Wagenen
Laboratory Manager

11/5/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **M01-0477**
DATE SAMPLED: 10/24/01
NEL SAMPLE ID: P0110047-01

TEST: **Metals**
MATRIX: Aqueous

ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.29	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	1.3	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.74	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	230	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	0.012	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	15	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	0.075	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	100	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.11	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	0.025	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	4.2	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	43	2. mg/L	2	SM 4500Si-D	11/1/01	11/1/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	3600	5. mg/L	10	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0478**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.067	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.059	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.19	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	40	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.64	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	9.8	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.043	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	4.0	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nca	25	1. mg/L	1	SM 4500Si-D	11/1/01	11/1/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	61	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0479**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-03
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.0067	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	ND	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	ND	1. mg/L	1	SM 4500Si-D	11/1/01	11/1/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	1.5	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0480**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-04
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.18	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	0.58	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.21	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	1.3	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	57	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	1.8	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	16	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.081	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	0.052	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	2.9	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silica	35	1. mg/L	1	SM 4500Si-D	11/1/01	11/1/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	1900	5. mg/L	10	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0482**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
[redacted]OJECT #:	NA	NEL SAMPLE ID:	P0110047-05
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.041	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.22	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	46	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.26	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	16	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.012	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	6.0	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]ica	34	1. mg/L	1	SM 4500Si-D	11/1/01	11/1/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	82	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	0.0085	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[redacted] - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011101SI-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	11/1/01	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 1029-2.1-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	ND	2. mg/L	1	EPA 6010	10/29/01	10/30/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]ium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P0055HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P' 'CT #: NA

CLIENT ID: M01-0477
DATE SAMPLED: 10/24/01
NEL SAMPLE ID: P0110047-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	820			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	820		25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND		20.	100	EPA 300.0	mg/L	10/25/01
Chloride	8500		1000.	10000	EPA 300.0	mg/L	10/31/01
Fluoride	2.9		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	990		5.	1	SM 2340 C	mg/L	10/30/01
Nitrate, as N	ND		5.	100	SM 4500-NO3	mg/L-N	10/25/01
pH	7.11	H3	2.	1	EPA 150.1	pH Units	10/25/01
pH Temperature	21.0		1.	1	EPA 150.1	°C	10/25/01
Specific Conductance	17400		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	110		10.	100	EPA 300.0	mg/L	10/25/01
Total Dissolved Solids	9180		300.	20	SM 2540 C	mg/L	10/29/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
P ECT #: NA

CLIENT ID: M01-0478
DATE SAMPLED: 10/24/01
NEL SAMPLE ID: P0110047-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND		2.	10	EPA 300.0	mg/L	10/25/01
Chloride	76		10.	100	EPA 300.0	mg/L	10/31/01
Fluoride	1.7		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	140		5.	1	SM 2340 C	mg/L	10/30/01
Nitrate, as N	ND		0.5	10	SM 4500-NO3	mg/L-N	10/25/01
pH	8.22	H3	2.	1	EPA 150.1	pH Units	10/25/01
pH Temperature	20.3		1.	1	EPA 150.1	°C	10/25/01
Specific Conductance	565		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	44		1.	10	EPA 300.0	mg/L	10/25/01
Total Dissolved Solids	310		15.	1	SM 2540 C	mg/L	10/29/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0479
DATE SAMPLED: 10/24/01
NEL SAMPLE ID: P0110047-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	10/25/01
Chloride	0.23		0.1	1	EPA 300.0	mg/L	10/25/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	ND		5.	1	SM 2340 C	mg/L	10/30/01
Nitrate, as N	ND		0.05	1	SM 4500-NO3	mg/L-N	10/25/01
pH	6.47	H3	2.	1	EPA 150.1	pH Units	10/25/01
pH Temperature	20.1		1.	1	EPA 150.1	°C	10/25/01
Specific Conductance	1.52		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	10/25/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	10/29/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0480
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
P' :CT #:	NA	NEL SAMPLE ID:	P0110047-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	1100		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	1100	25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND	10.	50	EPA 300.0	mg/L	10/25/01
Chloride	2400	500.	5000	EPA 300.0	mg/L	10/31/01
Fluoride	22	4.	10	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	210	5.	1	SM 2340 C	mg/L	10/30/01
Nitrate, as N	ND	2.5	50	SM 4500-NO3	mg/L-N	10/25/01
pH	8.02	2.	1	EPA 150.1	pH Units	10/25/01
pH Temperature	19.5	1.	1	EPA 150.1	°C	10/25/01
Specific Conductance	8350	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	220	5.	50	EPA 300.0	mg/L	10/25/01
Total Dissolved Solids	4730	150.	10	SM 2540 C	mg/L	10/29/01

R.. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0482
DATE SAMPLED: 10/24/01
NEL SAMPLE ID: P0110047-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	10/30/01
Bromide	ND	2.	10	EPA 300.0	mg/L	10/25/01
Chloride	71	10.	100	EPA 300.0	mg/L	10/31/01
Fluoride	1.8	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	190	5.	1	SM 2340 C	mg/L	10/30/01
Nitrate, as N	1.8	0.5	10	SM 4500-NO3	mg/L-N	10/25/01
pH	7.63	2.	1	EPA 150.1	pH Units	10/25/01
pH Temperature	20.0	1.	1	EPA 150.1	°C	10/25/01
Specific Conductance	761	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	100	10.	100	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	449	15.	1	SM 2540 C	mg/L	10/29/01

R.. .Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011025BR-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/kg	10/25/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011025CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/25/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011025SO4-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/25/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011030ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/30/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/30/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	Non-Metals		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031SO4-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0477
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-01

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result		Reporting Limit
Benzene	7.4	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	2.4	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	108	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0478
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-02
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result		Reporting Limit
Benzene	ND		2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	3.2	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	101	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0479
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-03

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	4.0 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	103	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0480
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-04
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result		Reporting Limit
Benzene	5.6	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	18	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	109	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0482
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110047-05

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	92	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
		ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	85	60 - 120

ND - Not Detected

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NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110049

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/25/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

11/1/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0481
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/24/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110049-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	590	100.	1000	EPA 300.0	mg/L	10/31/01
Specific Conductance	3120	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	1860	30.	2	SM 2540 C	mg/L	10/29/01

R.. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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elpaso

Due 11/1

CHAIN OF CUSTODY RECORD

Las Vegas Lead

P01100 49

Page ___ of ___

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Tait Monitor Wells						Cl	TDS	Sp. Cond.				
SAMPLERS (Signature)	DATE:												
	10/24/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER									REMARKS
01	10/24/01	1325	H2O	MO1-0481	1		X	X	X				

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/24/01 1400	Via Fed-X		10/25/1100	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM 08-0566 (Rev 3-01)

NEL LABORATORIES
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Phoenix • So California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110055

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/26/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

H3 - Sample was received and analyzed past holding time.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

11/6/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0483**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.10	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.46	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	280	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	1.2	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	0.058	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	89	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.22	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	14	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	36	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	1200	5. mg/L	10	EPA 6010	10/29/01	10/30/01
Uranium	0.034	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

CLIENT ID: **M01-0484**
DATE SAMPLED: 10/25/01
NEL SAMPLE ID: P0110055-02
ANALYST: JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.075	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.11	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.49	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	290	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	1.3	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	0.067	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	96	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.23	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	14	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	36	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	1300	5. mg/L	10	EPA 6010	10/29/01	10/30/01
Uranium	0.036	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **M01-0486**
DATE SAMPLED: 10/25/01
NEL SAMPLE ID: P0110055-03

TEST: **Metals**
MATRIX: Aqueous

ANALYST: JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.11	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.25	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	160	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.29	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	56	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.032	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	9.3	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	34	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	120	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	0.011	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible]F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0487**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
[redacted]OJECT #:	NA	NEL SAMPLE ID:	P0110055-04
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.057	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.10	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.30	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	300	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.19	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	0.068	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	95	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.021	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	9.6	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]ica	35	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	180	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	0.028	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[redacted]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0489**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-05
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.042	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.22	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	37	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.17	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	13	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.0073	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	0.00030	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	72	2. mg/L	1	EPA 6010	10/29/01	10/30/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silica	34	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	72	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0490**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
[redacted]OJECT #:	NA	NEL SAMPLE ID:	P0110055-06
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.046	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.22	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	45	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.17	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	15	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.020	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	6.0	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]ica	34	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	78	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[redacted]. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0491**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-07
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	ND	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ica	ND	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

[illegible] - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011102SI-BLK

TEST:

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 1029-2.1-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	ND	2. mg/L	1	EPA 6010	10/29/01	10/30/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P0055HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0483
DATE SAMPLED: 10/25/01
NEL SAMPLE ID: P0110055-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	460			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	460		25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND		5.	25	EPA 300.0	mg/L	10/26/01
Chloride	4000		250.	2500	EPA 300.0	mg/L	10/31/01
Fluoride	0.88		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	1100		2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	ND		1.25	25	SM 4500-NO3	mg/L-N	10/26/01
pH	6.80	H3	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	20.1		1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	7820		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	200		2.5	25	EPA 300.0	mg/L	10/26/01
Total Dissolved Solids	4390		60.	4	SM 2540 C	mg/L	10/29/01

R. eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0484
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-02
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	440			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	440		25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND		5.	25	EPA 300.0	mg/L	10/26/01
Chloride	3700		250.	2500	EPA 300.0	mg/L	10/31/01
Fluoride	0.99		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	1100		2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	ND		1.25	25	SM 4500-NO3	mg/L-N	10/26/01
pH	6.84	H3	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	19.9		1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	7700		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	190		2.5	25	EPA 300.0	mg/L	10/26/01
Total Dissolved Solids	4400		60.	4	SM 2540 C	mg/L	10/29/01

R. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0486
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-03
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND		2.	10	EPA 300.0	mg/L	10/26/01
Chloride	1400		100.	1000	EPA 300.0	mg/L	10/31/01
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	630		2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	ND		0.5	10	SM 4500-NO3	mg/L-N	10/26/01
pH	7.43	H3	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	19.7		1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	1890		1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	110		10.	100	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	1220		15.	1	SM 2540 C	mg/L	10/29/01

R. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0487
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-04
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	160		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	160	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	2.1	2.	10	EPA 300.0	mg/L	10/26/01
Chloride	930	100.	1000	EPA 300.0	mg/L	10/31/01
Fluoride	1.0	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	1100	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	ND	0.5	10	SM 4500-NO3	mg/L-N	10/26/01
pH	7.02	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	19.8	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	3350	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	220	10.	100	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	2270	30.	2	SM 2540 C	mg/L	10/29/01

R. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0489
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-05
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	170		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	170	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND	1.	5	EPA 300.0	mg/L	10/26/01
Chloride	56	25.	250	EPA 300.0	mg/L	10/31/01
Fluoride	1.4	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	150	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	1.0	0.25	5	SM 4500-NO3	mg/L-N	10/26/01
pH	7.86	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	19.9	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	627	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	85	5.	50	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	393	15.	1	SM 2540 C	mg/L	10/29/01

R. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0490
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-06
T[illegible]:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	170		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	170	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND	1.	5	EPA 300.0	mg/L	10/26/01
Chloride	42	5.	50	EPA 300.0	mg/L	10/31/01
Fluoride	1.4	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	170	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	1.5	0.25	5	SM 4500-NO3	mg/L-N	10/26/01
pH	7.75	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	20.0	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	690	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	96	5.	50	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	422	15.	1	SM 2540 C	mg/L	10/29/01

R [illegible]eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0491
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-07
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	ND	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/26/01
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/26/01
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	ND	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	10/26/01
pH	6.38	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	19.6	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	1.30	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/26/01
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	10/29/01

R Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026BR-BLK

T. . **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026NO3-BLK

TL . **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026SO4-BLK

TEST: Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029TDS-BLK

Tc **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011031ALK-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK

T. **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031SO4-BLK

TL **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0483
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	2.0 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0484
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-02

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0486**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-03

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a.a.a-Trifluorotoluene	88	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0487
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-04

BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	102	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0489**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-05

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	95	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0490
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-06

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	95	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0491**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110055-07
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	96	60 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BTEX-BLK

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
		ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	85	60 - 120

ND - Not Detected

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Due 11/2

CHAIN OF CUSTODY RECORD

Lab Vega Level

PO110055

Page

PROJECT NUMBER	PROJECT NAME	SAMPLERS (Signature)	DATE
	TG1 #4 Monitor Wells		10/25/01

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSES: CATIONS + ANIONS (SEE ATTACHED)	TDS sp cond	BTEX (8021)	FROM MAY: Cu, Zn, Boron	AS, SE, CR, Pb, Hg, Ba, Ag, Cd
01	10/25/01	1007	H2O	MO1-0483	5	G	X	X	X	X	X	X
02	10/25/01	1007	H2O	MO1-0484	5	G	X	X	X	X	X	X
03	10/25/01	1140	H2O	MO1-0486	5	G	X	X	X	X	X	X
04	10/25/01	1303	H2O	MO1-0487	5	G	X	X	X	X	X	X
05	10/25/01	1425	H2O	MO1-0489	5	G	X	X	X	X	X	X
06	10/25/01	1600	H2O	MO1-0490	5	G	X	X	X	X	X	X
07	10/25/01	1630	H2O	MO1-0491	5	G	X	X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Custody Seal Intact Y N None

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/25/01 1700	Via	Fed-X	10/26 1045	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08-0566 (Rev 3/01)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110053

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/26/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

11/2/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0485
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110053-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	2400	100.	1000	EPA 300.0	mg/L	10/31/01
Specific Conductance	8380	1.	1	SM 2510 B	µS/cm	10/29/01
Total Dissolved Solids	5050	150.	10	SM 2540 C	mg/L	10/29/01

R Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011029TDS-BLK

TE **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	***Non-Metals***		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

elpaso

Due 11/2

CHAIN OF CUSTODY RECORD

P0110053

Page

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	JA1 #4 Monitor Wells									
SAMPLERS (Signature)	DATE									
LAB ID	DATE / TIME / MATRIX / SAMPLE NUMBER									REMARKS
CT	10/25/01 1030 H2O MW1-01185	1	G	X	X	X				

Custody Seal Intact? Y N

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY (Signature)
	10/26 1700		Fed-X	10/26 1045	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

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FM 08-0566 (Rev 3.0)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0110054

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/26/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

11/5/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0488**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110054-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JTY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	0.095	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	0.18	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	67	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	0.31	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	20	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	0.0088	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]ssium	5.1	2. mg/L	1	EPA 6010	10/29/01	10/30/01
[redacted]nium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silica	47	2. mg/L	2	SM 4500Si-D	11/2/01	11/2/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
Sodium	64	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	0.21	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1B-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011102SI-BLK

TEST:

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	11/2/01	11/2/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 1029-2.1-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/29/01	10/30/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/29/01	10/30/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/29/01	10/30/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/29/01	10/30/01
Potassium	ND	2. mg/L	1	EPA 6010	10/29/01	10/30/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/29/01	10/30/01
[illegible]ium	ND	0.5 mg/L	1	EPA 6010	10/29/01	10/30/01
Zinc	ND	0.1 mg/L	1	EPA 6010	10/29/01	10/30/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P0055HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	10/31/01	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
P' ':CT #: NA

CLIENT ID: M01-0488
DATE SAMPLED: 10/25/01
NEL SAMPLE ID: P0110054-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	140	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	1.1	1.	5	EPA 300.0	mg/L	10/26/01
Chloride	120	10.	100	EPA 300.0	mg/L	10/31/01
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	250	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	0.90	0.25	5	SM 4500-NO3	mg/L-N	10/26/01
pH	7.69	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	20.3	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	822	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	62	10.	100	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	500	15.	1	SM 2540 C	mg/L	10/29/01

R.. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026BR-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-492
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110059-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	11/1/01
Bromide	ND		2.	10	EPA 300.0	mg/L	10/31/01
Chloride	59		5.	50	EPA 300.0	mg/L	11/6/01
Fluoride	1.8		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	140		5.	1	SM 2340 C	mg/L	11/3/01
Nitrate, as N	ND		0.5	10	SM 4500-NO3	mg/L-N	10/31/01
pH	8.01	H3	2.	1	EPA 150.1	pH Units	10/30/01
pH Temperature	23.3		1.	1	EPA 150.1	°C	10/30/01
Specific Conductance	572		1.	1	SM 2510 B	µS/cm	10/31/01
Sulfate	47		1.	10	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	343		15.	1	SM 2540 C	mg/L	11/1/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PP CT #: NA

CLIENT ID: M01-0493
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110059-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	11/1/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	10/31/01
Chloride	ND		0.1	1	EPA 300.0	mg/L	10/31/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	ND		5.	1	SM 2340 C	mg/L	11/3/01
Nitrate, as N	ND		0.05	1	SM 4500-NO3	mg/L-N	10/31/01
pH	6.39	H3	2.	1	EPA 150.1	pH Units	10/30/01
pH Temperature	23.3		1.	1	EPA 150.1	°C	10/30/01
Specific Conductance	1.32		1.	1	SM 2510 B	µS/cm	10/31/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	11/1/01

R. eporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
CLIENT ID: M01-0494
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110059-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	ND		25.	1	SM 2320 B	mg/L	11/1/01
Bromide	ND		0.2	1	EPA 300.0	mg/L	10/31/01
Chloride	ND		0.1	1	EPA 300.0	mg/L	10/31/01
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	ND		5.	1	SM 2340 C	mg/L	11/3/01
Nitrate, as N	ND		0.05	1	SM 4500-NO3	mg/L-N	10/31/01
pH	6.25	H3	2.	1	EPA 150.1	pH Units	10/30/01
pH Temperature	22.8		1.	1	EPA 150.1	°C	10/30/01
Specific Conductance	1.73		1.	1	SM 2510 B	µS/cm	10/31/01
Sulfate	ND		0.1	1	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	11/1/01

R.. eporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BR-BLK
Title:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031F-BLK

Ta . **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0488**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/25/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110054-01

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
DILUTION:	1	ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	87	60 - 120

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011030BTEX-BLK

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/30/01
		ANALYZED:	10/30/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	118	60 - 120

ND - Not Detected

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elpaso

Dec 11/2

CHAIN OF CUSTODY RECORD

Lucy Pegoraro Leach

P0110054

Page ... of

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	JAL #4												
SAMPLERS (Signature)		DATE											
		10/25/01											
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Cations + Anions	See Attached	TDS SpCond.	BTEX 8021	Iron Manganese Chloride Zinc Nitrate Boron	As, Se, Ca, Pb, Hg, Ba, Ag, Cd.	REMARKS
	10/25/01	1345	H_2O	MW1-0488	5	G	X	X	X	X	X	X	

Custody Seal Intact? Y N N/A

Condition when received

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	10/25/01 1700	Via Fed-X		10/26 1041	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY LABORATORY (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM 08-0566 (Rev 3/01)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110059

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/30/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

H3 - Sample was received and analyzed past holding time.

Some QA results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

11/6/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **M01-492**
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110059-01

TEST: **Metals**
MATRIX: Aqueous

ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.40	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	0.051	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	0.23	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	38	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	0.41	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	9.8	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	0.032	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01
Molybdenum	0.010	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	3.7	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silica	25	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	59	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **M01-0493**
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110059-02

TEST: **Metals**
MATRIX: Aqueous

ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	ND	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silica	ND	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	1.6	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-0494**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110059-03
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	ND	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silica	ND	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	1.4	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1B-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011106SI-BLK

TEST:

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 1031-1.2-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	ND	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
[illegible]	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L0303HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0488
PROJECT ID:	JAL #4	DATE SAMPLED:	10/25/01
P' :CT #:	NA	NEL SAMPLE ID:	P0110054-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	140	25.	1	SM 2320 B	mg/L	10/31/01
Bromide	1.1	1.	5	EPA 300.0	mg/L	10/26/01
Chloride	120	10.	100	EPA 300.0	mg/L	10/31/01
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	250	2.	1	EPA 200.7	mg/L	10/30/01
Nitrate, as N	0.90	0.25	5	SM 4500-NO3	mg/L-N	10/26/01
pH	7.69	2.	1	EPA 150.1	pH Units	10/26/01
pH Temperature	20.3	1.	1	EPA 150.1	°C	10/26/01
Specific Conductance	822	1.	1	SM 2510 B	µS/cm	10/29/01
Sulfate	62	10.	100	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	500	15.	1	SM 2540 C	mg/L	10/29/01

R.. :eporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026BR-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011026NO3-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	10/26/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011031ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	10/31/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011031BR-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 011031F-BLK

Test: Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 011031NO3-BLK

T. . **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031SO4-BLK

Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011101ALK-BLK

T. . **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011101TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011106CL-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M01-492**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110059-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result		Reporting Limit
Benzene	2.2	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	6.2	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0493
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110059-02
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	97	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0494
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110059-03
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	88	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
		ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	85	60 - 120

ND - Not Detected

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11/6

PO110059

CHAIN OF CUSTODY RECORD

(V Lead)

Page 1

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations + Anions; see attached; TDS sp. cond; BTEX 8021; Iron, Manganese, copper, Zinc, Boron; As, Se, Cr, Pb, Hg, Ba, Ag, Cd	CONTRACT LABORATORY
SAMPLERS (Signature)	DATE 10/29/01				

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER							REMARKS
01	10/29/01	0915	H2O	MO1-0492	5	4	x	x	x	x	x	x	Received pHs out of hold time ok to run pH per client
02	10/29/01	0920	H2O	MO1-0493	5	4	x	x	x	x	x	x	
03	10/29/01	0930	H2O	MO1-0494	5	4	x	x	x	x	x	x	

Custody Seal Intact? Y N (None) Temp. 6°

Condition when received (good)

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/29/01 1630		Fed Ex	10/30 0850	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08 0506 (Rev. 3.01)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Jal #4 Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110060

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/30/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

11/6/01
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: M01-0495
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110060-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	13000	1000.	10000	EPA 300.0	mg/L	11/6/01
Specific Conductance	42000	1.	1	SM 2510 B	µS/cm	10/31/01
Total Dissolved Solids	25100	1500.	100	SM 2540 C	mg/L	10/31/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Jal #4 Wells
PROJECT #: NA

CLIENT ID: M01-0496
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110060-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	65	5.	50	EPA 300.0	mg/L	11/6/01
Specific Conductance	890	1.	1	SM 2510 B	µS/cm	10/31/01
Total Dissolved Solids	523	15.	1	SM 2540 C	mg/L	10/31/01

R. Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0494
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110059-03
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	RAA - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01
Potassium	ND	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silica	ND	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	1.4	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.. Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011029TDS-BLK

TE Non-Metals

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/29/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Jal #4 Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011106CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/6/01

D.F. - Dilution Factor

ND - Not Detected

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P0110020

CHAIN OF CUSTODY RECORD

Page ____ of ____

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Val #4 Monitor Wells												
SAMPLERS (Signature)	DATE: 10/29/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Cl	TDS	sp. Cond				REMARKS
01	10/29/01	1000	H2O	MO1-0495	1	G	X	X	X				
02	10/29/01	1225	H2O	MO1-0496	1	G	X	X	X				

Custody Seal Intact? Y N (None) Temp. 6°C
Condition when received (good)

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY (Signature)
	10/29/01 1630	Via Fed Ex		10/30 0950	Audrey Trost
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
ROUTINE RUSH
CARRIER CO.
BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

M-08 0566 (Rev 3/01)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 Monitor Wells
PROJECT NUMBER: NA

NEL ORDER ID: P0110061

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/30/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

1/14/02 rc-155mo
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: **M01-0497**
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110061-01

TEST: **Metals**
MATRIX: Aqueous

ANALYST: FIF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	0.037	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	0.21	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	44	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	0.10	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	15	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	0.018	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Nickel	ND	0.04 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	3.7	2. mg/L	1	EPA 6010	10/31/01	11/3/01
[illegible]nium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
[illegible]ica	38	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	64	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Uranium	0.0084	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	0108-4.1B-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Uranium	ND	0.005 mg/L	5	EPA 6020	1/8/02	1/10/02

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011106SI-BLK

TEST:

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	11/6/01	11/6/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 1031-1.2-BLK

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Cadmium	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Cobalt	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/01	11/3/01
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/01	11/3/01
Molybdenum	ND	0.01 mg/L	1	EPA 6010	10/31/01	11/3/01
Potassium	ND	2. mg/L	1	EPA 6010	10/31/01	11/3/01
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/01	11/3/01
Sodium	ND	0.5 mg/L	1	EPA 6010	10/31/01	11/3/01
[illegible]	ND	0.1 mg/L	1	EPA 6010	10/31/01	11/3/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L0303HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/5/01	11/5/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4 Monitor Wells
PROJECT #: NA

CLIENT ID: M01-0497
DATE SAMPLED: 10/29/01
NEL SAMPLE ID: P0110061-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO3	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO3	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	180	25.	1	SM 2320 B	mg/L	11/1/01
Bromide	ND	2.	10	EPA 300.0	mg/L	10/31/01
Chloride	28	1.	10	EPA 300.0	mg/L	10/31/01
Fluoride	0.96	0.4	1	SM 4500-F C	mg/L	10/31/01
Hardness, Total (as CaCO3)	170	5.	1	SM 2340 C	mg/L	11/3/01
Nitrate, as N	1.2	0.5	10	SM 4500-NO3	mg/L-N	10/31/01
pH	7.80	2.	1	EPA 150.1	pH Units	10/30/01
pH Temperature	22.7	1.	1	EPA 150.1	°C	10/30/01
Specific Conductance	622	1.	1	SM 2510 B	µS/cm	10/31/01
Sulfate	74	1.	10	EPA 300.0	mg/L	10/31/01
Total Dissolved Solids	396	15.	1	SM 2540 C	mg/L	11/1/01

R.. .eporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BR-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031CL-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031F-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031NO3-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031SO4-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/31/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011101ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaC	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	11/1/01
Alkalinity, Total as CaCO3	ND	25	1	SM 2320 B	mg/L	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	Method Blank
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011101TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/1/01

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M01-0497
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	10/29/01
PROJECT #:	NA	NEL SAMPLE ID:	P0110061-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
DILUTION:	1	ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	93	60 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4 Monitor Wells	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	011031BTEX-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	PXC - Division
MATRIX:	Aqueous	EXTRACTED:	10/31/01
		ANALYZED:	10/31/01

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	85	60 - 120

ND - Not Detected

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elpaso

17/0

PO 1100101

CHAIN OF CUSTODY RECORD

Page ... of ...

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Jal #4 Monitor Wells												
SAMPLERS (Signature)	DATE												
	10/29/01												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Chloride	See Attached	BTEX 8021	Hg, Mn, Ag, Cu, Zn, Pb, Ba, As, Se, Cd, Cr	As, Se, Cd, Pb, Hg, Ba, Ag, Cr	TDS sp cond	REMARKS
01	10/29/01	1330	H_2O	MO1-0497	5	G	X	X	X	X	X	X	

Custody Seal Intact? Y N None Temp. 6 °C
Condition when received good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/29/01 1630	Via FEDEX		10/30 0950	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO CORPORATION
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EP Corp. Lab Pink - Field Sampler

FM-08-0560 (Rev. 3.01)