

GW - 107

**ANNUAL
MONITORING
REPORT**

02/11/2005

CW 107R



Via Federal Express

February 11, 2005

Mr. Edwin E. Martin
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

**RE: 2004 Annual Groundwater Remediation Report Jal No. 4 Plant Lea County,
New Mexico**

Dear Mr. Martin:

El Paso Natural Gas Company hereby submits the enclosed "2004 Annual Groundwater Remediation Report Jal No. 4 Plant Lea County, New Mexico". The Annual Report details remediation efforts for the year 2004.

If you have any questions concerning the Annual Report please call me (719) 520-4433 or Buddy Richardson at (918) 492-1600.

Sincerely,

A handwritten signature in black ink that reads "Scott T. Pope".

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Chris Williams, NMOCD, Hobbs - w / enclosures; **Via Federal Express**
Mr. Jimmy Doom, Landowner - w / enclosures
Mr. Darrell Campbell, EPNG - w / enclosures
Mr. Buddy Richardson, BI - w / enclosures
Mr. Ed Nichols, EPNG – ROW - w / o enclosures
Jal 4 file - w / enclosures

GW107R

**2004 ANNUAL
GROUNDWATER REMEDIATION
REPORT
JAL NO. 4 PLANT
LEA COUNTY, NEW MEXICO**

Prepared for:

**El Paso Natural Gas Company
2 North Nevada Street
Colorado Springs, Colorado 80903
(719) 520-4433**

Prepared by:

**The Benham Companies, LLC
Infrastructure & Environmental
One West Third Street, Suite 100
Tulsa, Oklahoma 74103
(918) 492-1600**

February 11, 2005

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1.0 INTRODUCTION

The Benham Companies, LLC (Benham), formerly The Benham Companies, Inc., has been retained by El Paso Natural Gas Company (EPNG) to compile the 2004 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 EPNG'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, July 8, 1997 and July 30, 2002.

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. 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.

The Plant was constructed by EPNG in 1952 to treat, compress and transport natural gas to EPNG's main transmission lines. EPNG discontinued their use of the Plant in 1987, leasing portions of the Plant property to Christie Gas Corporation (Christie) that same year. EPNG eventually sold the Plant to Christie in 1991. In December 2002, Christie sold the Plant to Texas LPG Storage Company (Texas LPG).

1.1 Program Wells and Sampling Schedule

To assess brine and hydrocarbon impacts to the shallow groundwater system in the Plant area EPNG has installed 18 monitor wells, 1 piezometer, and 2 recovery wells on Plant property and adjoining properties to the east (located hydraulically downgradient). EPNG had designated fifteen (15) monitor wells as "***program monitor wells***" from

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which groundwater samples are frequently collected and submitted to an analytical laboratory for analysis. The locations of these wells are shown on Figures 2 through 7.

On April 14, 2003 the NMOCD approved a modification to the groundwater sampling program for the Site. These modifications established the following sampling program:

- 1st Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 and analyze for: benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX), total dissolved solids (TDS), specific conductance, chloride and sodium.
- 2nd Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 and analyze for: BTEX, TDS, specific conductance, chloride and sodium.
- 3rd Quarter - sample monitor wells ACW-13, ACW-14 and ACW-15 and analyze for: BTEX, TDS, specific conductance, chloride and sodium.
- 4th Quarter - sample all program and non-program wells for and analyze for: BTEX, TDS, specific conductance, chloride and sodium.

A list of EPNG's program monitor wells and the calendar year 2004 sample collection schedule for each well is as follows:

Monitor Well	Sampled February, May, August and November	Sampled November Only
ACW-1		X
ACW-2A		X
ACW-3		X
ACW-4		X
ACW-5		X
ACW-6		X
ACW-7		X
ACW-8		X

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Monitor Well	Sampled February, May, August and November	Sampled November Only
ACW-9		X
ACW-10		X
ACW-11		X
ACW-12		X
ACW-13	X	
ACW-14	X	
ACW-15	X	

1.2 Non-Program Wells and Sampling Schedule

In addition to these program monitoring wells, EPNG also collects groundwater samples from 2 non-program monitoring wells (ENSR-1 and ENSR-3), 1 piezometer (PTP-1), 1 upgradient water supply well (EPNG-1), and 2 downgradient active water supply wells (Oxy Production Well and Doom Production Well). Monitoring well ENSR-2 was converted into a groundwater recovery well and connected to the remediation system active at the Site in 2002 and was not sampled during sample year 2003. However, sampling of ENSR-2 resumed in 2004. The ENSR 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.

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A list of the non-program wells and their calendar year 2004 sample collection schedule is as follows:

Well	Sampled February, May, August and November	Sampled November Only
ENSR-1		X
ENSR-2		X
ENSR-3		X
EPNG-1		X
PTP-1		X
Oxy Production Well	X	
Doom Production Well	X	

1.3 Depth to Groundwater Measurements

During each quarterly sampling event and prior to disturbing the water columns within each well, EPNG 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) datum 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 EPNG's monitoring program.

1.4 Sampling Procedures

The groundwater samples were collected by EPNG 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.

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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. The results of the 2004 groundwater analyses and all previous analyses are summarized in Table 2. The complete 2004 laboratory analytical reports and chain-of-custody documents are provided in Appendix A.

2.0 RESULTS OF MONITORING ACTIVITIES

The following Sections summarize the field measurements and laboratory analytical results obtained throughout the 2004 quarterly sampling program. These data have been compared with historic data to assess any trends that may be apparent. To facilitate these comparisons, 45 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 15 program monitor wells. These graphs are presented in the section of this report tabbed "Graphs".

2.1 Field Measurements

The depth to groundwater measurements taken during each of the sampling events are summarized 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. In 2004, the depth to groundwater elevations observed in monitor well ACW-4 appear to be influenced by groundwater withdrawals from recovery wells ENSR-2 and RW-1.

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 is, in general, from the northwest to the southeast (S46E). The hydraulic gradient across the Plant is approximately 0.002 feet per foot. Generally, the groundwater flow direction and hydraulic gradient at the Site appear to have changed little since 1997. A notable exception is those localized areas near the active recovery wells where the groundwater flow direction and hydraulic gradient have been altered by the extraction of groundwater from these wells.

2.2 Inorganic Constituents

The primary inorganic parameters being utilized to assess plume migration at the Plant include: TDS, chloride and sodium. Benham has reviewed the concentration trend graphs for these parameters in each of the program monitor wells. Based upon this review, it is Benham's opinion that certain trends are apparent in the levels of these parameters. The following table summarizes Benham's opinions of the trends that are observable in 2004 from the inorganic database provided herein. The trends observed in calendar year 2003 are shown in parentheses.

MONITOR WELL	CONCENTRATION TRENDS		
	TDS	CHLORIDE	SODIUM
ACW-1	↓ (↓)	↓ (↓)	↓ (↓)
ACW-2A	↓ (↓)	↓ (↓)	↓ (↓)
ACW-3	↓ (↔)	↓ (↓)	↓ (↓)
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.

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In general, these trends indicate that the overall levels of inorganic constituents are decreasing in six (6) wells, increasing in four (4) wells, and have no observable trends in five (5) 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-3
ACW-4	ACW-6	ACW-8

Monitor Wells with Increasing Overall Inorganic Levels

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

Monitor Wells with No Observable Trend in Overall Inorganic Levels

ACW-5	ACW-12	ACW-13
ACW-14	ACW-15	

Figure 6 presents an isopleth of the chloride concentrations detected in groundwater during the 2004 sampling program. New Mexico Administrative Code (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 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 2004 monitoring program.

Decreasing or stable chloride trends are evident in the monitoring wells immediately adjacent to RW-1 and ENSR-2 (i.e., monitoring wells ACW-2A, ACW-3, 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

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of 0.01 mg/L (10 µg/L) for benzene in groundwater containing TDS levels of 10,000 mg/L or less. Benham has reviewed the concentration trend graphs for benzene in each of the program monitor wells. Based upon this review it is Benham's opinion that certain trends are apparent in the levels of this compound. The following table summarizes Benham's opinions of the trends that are observable in 2004 from the benzene database provided herein. The trends observed in calendar year 2003 are shown in parentheses.

MONITOR WELL	BENZENE CONCENTRATION TREND
ACW-1	↔ (↔)
ACW-2A	↓ (↓)
ACW-3	↓ (↓)
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.

In general, these trends indicate that benzene levels are decreasing or remaining constant across the Plant property (3 decreasing and 3 stable trends), and are predominantly stable off-site (8 stable and 1 increasing trends). The only increasing trend in an off-site well appears to be present in well ACW-7.

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Figure 7 presents an isopleth of the benzene concentrations detected in groundwater during the 2004 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 2004 monitoring program. As can be seen on Figure 7, benzene was detected in 10 on-site wells and 7 off-site wells. The highest benzene concentration observed in 2004 was detected in the groundwater sample taken from on-site monitoring well ACW-4 (189 µg/L). During 2004, the benzene levels detected in on-site wells ENSR-1 (10.8 µg/L), ENSR-2 (72.1 µg/L), ENSR-3 (12.0 µg/L), ACW-2A (47.9 µg/L), ACW-3 (13.7 µg/L), ACW-4 (189 µg/L), ACW-8 (25.3 µg/L), ACW-11 (19.3 µg/L), PTP-1 (13.6 µg/L), RW-1 (114 µg/L), and off-site well ACW-7 (14.0 µg/L) exceeded the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of benzene of 10 µg/L.

3.0 GROUNDWATER REMEDIATION SYSTEM

To date, EPNG 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 occurred within the electrical submersible pump in RW-1, monitoring well ENSR-2 was tested as a recovery well in 2000 and operated intermittently as a replacement well for RW-1 in 2001 and 2002. ENSR-2 was permitted as a stand-alone recovery well on January 27, 2003. As shown on Figures 2 through 7, 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. Whenever possible, groundwater is pumped from both on-site recovery wells RW-1 and ENSR-2 and from off-site recovery well RW-2. RW-2 is located hydraulically downgradient relative to recovery wells RW-1 and ENSR-2 and is approximately 780 feet east of the Plant property boundary. EPNG has installed a below-grade pipeline that connects recovery wells RW-1, RW-2, and ENSR-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 Shell State #13 SWD, 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. Shell State #13 SWD is currently owned and operated by Texas LPG. Texas LPG provides EPNG 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 in 2004.

Beginning in December 2003, high injection pressure temporarily ended the use of the Shell State #13 SWD disposal well and the operation of EPNG's groundwater remediation system. In May and June 2004 the disposal well was worked over (cleaned out and acidized) and injection resumed in June 2004. This workover appears to have greatly improved the wells capacity to dispose of water. Groundwater recoveries from

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recovery wells RW-1, RW-2 and ENSR-2 in calendar year 2004 totaled 1,241,510 gallons, 2,029,620 gallons and 1,130,850 gallons, respectively, and had an annual combined total of 4,401,980 gallons. This total volume is equivalent to 13.51 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 each source (70 acre-feet per year total). Current withdrawals from the aquifer are well below the permitted limits.

A summary of the amount of groundwater recovered from each of the recovery wells is presented on the following table. This table presents the 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
2002	267,869	2,919,520	1,675,670	4,863,059	14.92
2003	501,640	1,598,630	1,629,400	3,729,670	11.45
2004	1,241,510	2,029,620	1,130,850	4,401,980	13.51
Cumulative Total	3,905,809	12,188,145	5,782,286	21,876,240	67.18

4.0 CONCLUSIONS

Based upon Benham'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.
- Groundwater flow directions at the Plant within the shallow groundwater system appear quite stable, with flows occurring from the northwest to the southeast (S46E) and a hydraulic gradient of approximately 0.002 feet per foot. A notable exception is those localized areas near the active recovery wells where the groundwater flow direction and hydraulic gradient have been altered by the extraction of groundwater from these wells.
- The shallow groundwater system beneath a portion of the Plant property has been impacted by oilfield brines. The groundwater analytical data indicate that a chloride plume has migrated hydraulically downgradient from the Plant area. During 2004, the groundwater samples taken from 11 on-site and 7 off-site monitoring/recovery wells contained levels of chloride that exceed the EPA's Secondary Drinking Water Standard and New Mexico's Domestic Water Supply Standard of 250 mg/L.
- In general, chloride concentrations in groundwater appear to be decreasing along the eastern property boundary of the Plant but increasing in areas that are off-site and hydraulically downgradient of the Plant along a line between RW-1 and monitor well ACW-15.

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- The shallow groundwater system beneath a portion of the Plant property has been impacted by petroleum hydrocarbons. The groundwater analytical data indicate that detectable levels of benzene are also present hydraulically downgradient of the Plant area. The levels of benzene detected in the groundwater taken from 10 on-site wells exceed the NMWQCC standard of 10 µg/L. Only the level of benzene observed in the groundwater sample taken from off-site monitoring well ACW-7 currently exceed this standard.

- In general, benzene concentrations in groundwater appear to be decreasing along the eastern property boundary of the Plant. Of all the on-site and off-site monitoring wells, only the benzene levels detected in monitoring well ACW-7 appear to have a slightly increasing trend.

5.0 RECOMMENDATIONS

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

- Continue operation of the current groundwater remediation system at maximum design capacity. 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).
- EPNG should continue to pursue ways to minimize the operational downtimes of the groundwater remediation system due to disposal well access. Changes to the disposal system made in 2004 (i.e., work over of the Shell State #13 disposal well and the installation of a valve and piping that will allow recovered groundwater to be diverted to Texas LPG's surface impoundments during the Plant's peak disposal periods) should greatly reduce system downtime. Approval to divert remediation groundwater to Texas LPG's surface impoundment is currently under OCD review.
- Remediation efforts should focus on capturing the most highly impacted groundwater. 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.
- Drill and install an additional recovery well to enhance the effectiveness of the groundwater remediation system and prevent further downgradient movement of impacted groundwater. Results of groundwater modeling indicate that plume capture could be improved with the installation of an additional recovery well located near existing monitoring well ACW-8. A work plan for installing this additional recovery well was submitted to the OCD in June 2003 and permitting of the well is currently pending.

TABLES

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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
			02/20/02	106.30	3,194.57
			04/29/02	106.30	3,194.57
			09/24/02	106.04	3,194.83
			11/03/02	106.30	3,194.57
			03/31/03	106.22	3,194.65
			05/20/03	106.41	3,194.46
			08/18/03	106.39	3,194.48
			11/04/03	106.19	3,194.68
			02/25/04	106.19	3,194.68
			05/13/04	106.15	3,194.72
			08/25/04	106.46	3,194.41
			11/09/04	106.57	3,194.30
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
			04/30/02	106.82	3,194.06
			09/24/02	106.55	3,194.33
			11/03/02	107.00	3,193.88
			03/31/03	107.04	3,193.84
			05/20/03	106.87	3,194.01
			08/18/03	107.74	3,193.14
			11/04/03	106.57	3,194.31
			02/25/04	106.53	3,194.35
			05/13/04	106.46	3,194.42
			08/25/04	107.67	3,193.21
			11/09/04	107.77	3,193.11
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
			04/30/02	106.30	3,194.04
			09/24/02	106.13	3,194.21
			11/03/02	106.44	3,193.90
			03/31/03	106.31	3,194.03
			05/20/03	106.42	3,193.92
			08/18/03	106.53	3,193.81
			11/03/03	106.19	3,194.15
			02/25/04	106.18	3,194.16
			05/13/04	106.12	3,194.22
			08/25/04	106.61	3,193.73
			11/09/04	106.69	3,193.65

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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-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
			04/30/02	107.88	3,191.60
			09/24/02	107.71	3,191.77
			11/02/02	107.90	3,191.58
			03/31/03	107.90	3,191.58
			05/20/03	107.76	3,191.72
			08/18/03	113.13	3,186.35
			11/04/03	107.34	3,192.14
			02/25/04	107.18	3,192.30
			05/13/04	107.07	3,192.41
			08/25/04	110.90	3,188.58
			11/09/04	110.51	3,188.97
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
			02/20/02	103.70	3,191.05
			04/30/02	103.70	3,191.05
			09/24/02	103.57	3,191.18
			11/06/02	103.81	3,190.94
			03/31/03	103.72	3,191.03
			05/20/03	103.85	3,190.90
			08/18/03	103.79	3,190.96
			11/05/03	103.70	3,191.05
			02/25/04	103.77	3,190.98
			05/13/04	103.73	3,191.02
			08/25/04	103.88	3,190.87
			11/12/04	103.97	3,190.78
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
			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

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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.)			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
			02/20/02	108.07	3,192.46
			04/29/02	108.08	3,192.45
			09/24/02	107.94	3,192.59
			11/04/02	108.16	3,192.37
			03/31/03	108.08	3,192.45
			05/20/03	108.20	3,192.33
			08/18/03	108.08	3,192.45
			11/05/03	108.15	3,192.38
			02/25/04	108.12	3,192.41
			05/13/04	108.09	3,192.44
			08/25/04	108.24	3,192.29
			11/12/04	108.28	3,192.25
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
			04/30/02	103.35	3,192.01
			09/24/02	103.21	3,192.15
			11/05/02	103.45	3,191.91
			03/31/03	103.36	3,192.00
			05/20/03	103.47	3,191.89
			08/18/03	103.42	3,191.94
			11/05/03	103.25	3,192.11
			02/25/04	103.28	3,192.08
			05/13/04	103.21	3,192.15
			08/25/04	103.57	3,191.79
			11/12/04	103.71	3,191.65
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
			04/29/02	104.81	3,192.46
			09/24/02	104.51	3,192.76
			11/04/02	104.72	3,192.55
			03/31/03	104.71	3,192.56
			05/20/03	104.85	3,192.42
			08/18/03	104.82	3,192.45
			11/03/03	104.62	3,192.65
			02/25/04	104.70	3,192.57
			05/13/04	104.62	3,192.65
			08/25/04	104.92	3,192.35
			11/09/04	104.97	3,192.30
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

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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-09 (cont.)			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
			02/20/02	111.98	3,190.49
			05/01/02	111.29	3,191.18
			09/24/02	111.08	3,191.39
			11/06/02	112.11	3,190.36
			03/31/03	111.56	3,190.91
			05/20/03	111.90	3,190.57
			08/18/03	111.17	3,191.30
			11/06/03	110.99	3,191.48
			02/25/04	111.01	3,191.46
			05/13/04	110.99	3,191.48
			08/25/04	112.52	3,189.95
			11/10/04	112.42	3,190.05
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
			02/20/02	107.08	3,190.49
			05/01/02	107.05	3,190.52
			09/24/02	106.91	3,190.66
			11/08/02	107.09	3,190.48
			03/31/03	107.07	3,190.50
			05/20/03	107.17	3,190.40
			08/18/03	107.09	3,190.48
			11/06/03	107.08	3,190.49
			02/25/04	107.02	3,190.55
			05/13/04	106.98	3,190.59
			08/25/04	107.21	3,190.36
			11/11/04	107.32	3,190.25

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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
			02/20/02	106.79	3,192.54
			04/29/02	106.78	3,192.55
			09/24/02	106.60	3,192.73
			11/06/02	106.80	3,192.53
			03/31/03	106.75	3,192.58
			05/20/03	106.92	3,192.41
			08/18/03	106.85	3,192.48
			11/04/03	106.72	3,192.61
			02/25/04	106.76	3,192.57
			05/13/04	106.69	3,192.64
			08/25/04	106.93	3,192.40
			11/10/04	106.92	3,192.41
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
			02/20/02	109.97	3,189.59
			05/01/02	109.98	3,189.58
			09/24/02	109.77	3,189.79
			11/07/02	109.91	3,189.65
			03/31/03	109.99	3,189.57
			05/20/03	110.13	3,189.43
			08/18/03	110.03	3,189.53
			11/06/03	110.02	3,189.54
			02/25/04	110.00	3,189.56
			05/13/04	109.98	3,189.58
			08/25/04	110.13	3,189.43
			11/11/04	110.20	3,189.36

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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-13	153 to 173	3,289.46	02/20/97 05/08/97 08/20/97 10/23/97 02/24/98 05/14/98 08/11/98 10/22/98 02/23/99 05/14/99 08/11/99 10/22/99 02/23/00 05/11/00 08/07/00 10/26/00 02/20/01 05/06/01 08/01/01 10/25/01 02/20/02 05/01/02 09/24/02 11/07/02 03/28/03 05/19/03 08/19/03 11/06/03 02/26/04 05/12/04 08/24/04 11/11/04	99.28 99.29 99.29 99.27 99.31 99.31 99.36 99.40 99.45 99.38 99.44 99.44 99.48 99.47 99.53 99.50 99.65 99.62 99.61 99.61 99.72 99.73 99.61 99.80 99.79 99.83 99.83 99.86 99.84 99.81 99.87 99.94	3,190.18 3,190.17 3,190.17 3,190.19 3,190.15 3,190.15 3,190.10 3,190.06 3,190.01 3,190.08 3,190.02 3,190.02 3,189.98 3,189.99 3,189.93 3,189.96 3,189.81 3,189.84 3,189.85 3,189.85 3,189.74 3,189.73 3,189.85 3,189.66 3,189.67 3,189.63 3,189.63 3,189.60 3,189.62 3,189.65 3,189.59 3,189.52	
ACW-14	157 to 177	3,291.18	02/19/97 05/06/97 08/20/97 10/22/97 02/24/98 05/13/98 08/11/98 10/21/98 02/23/99 05/13/99 08/09/99 10/21/99 02/22/00 05/10/00 08/07/00 10/26/00 02/20/01 05/03/01 08/01/01 10/24/01 02/19/02 04/30/02 09/24/02 11/04/02 03/26/03 05/20/03	NM NM 100.41 100.38 100.47 100.42 100.47 100.54 100.57 100.49 100.49 100.55 100.56 100.52 100.61 100.62 100.75 100.72 100.75 100.75 100.80 100.80 100.71 100.80 100.89 100.97	NM NM 3,190.77 3,190.80 3,190.71 3,190.76 3,190.71 3,190.64 3,190.61 3,190.69 3,190.63 3,190.62 3,190.66 3,190.57 3,190.56 3,190.43 3,190.46 3,190.43 3,190.43 3,190.38 3,190.47 3,190.38 3,190.29 3,190.21	

**Table 1 : Summary of Depth to Groundwater Measurements,
Jal No. 4 Plant, El Paso Natural Gas Company, 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.)			08/20/03	100.95	3,190.23
			11/05/03	100.96	3,190.22
			02/26/04	100.94	3,190.24
			05/12/04	100.86	3,190.32
			08/24/04	100.93	3,190.25
			11/12/04	100.99	3,190.19
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
			02/19/02	102.57	3,187.97
			05/02/02	102.65	3,187.89
			09/24/02	102.55	3,187.99
			11/07/02	102.68	3,187.86
			03/28/03	102.74	3,187.80
			05/19/03	102.72	3,187.82
			08/19/03	102.75	3,187.79
			11/07/03	102.78	3,187.76
			02/26/04	102.75	3,187.79
			05/12/04	102.76	3,187.78
			08/24/04	102.78	3,187.76
			11/11/04	102.75	3,187.79
ENSR-1	123 to 148	3,305.40	02/25/04	108.63	3,196.77
			05/13/04	108.60	3,196.80
			08/25/04	108.57	3,196.83
			11/10/04	108.40	3,197.00
ENSR-3	123 to 148	3,303.80	02/25/04	108.11	3,195.69
			05/13/04	108.07	3,195.73
			08/25/04	108.14	3,195.66
			11/10/04	108.10	3,195.70
PTP-1	110 to 130	3,304.41	02/25/04	108.67	3,195.74
			05/13/04	108.65	3,195.76
			08/25/04	108.72	3,195.69
			11/10/04	108.60	3,195.81

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 Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Benzene, $\mu\text{g/l}$	Toluene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	Total Xylenes, $\mu\text{g/l}$	MTBE, $\mu\text{g/l}$	Gasoline Range Organics,	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Bromide, mg/l	Barium, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	—
ACW #01	ACW #01	5-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	<5	<10	<5	<5	<5	<5	--	--	14,000	8.3	8,200	4,100	240	--	1.8	25	<2.0	--	0.9	<0.025
ACW #01	ACW #01	27-Jun-95	4.6	4.6	<2.5	--	--	--	140	--	1,400	8.4	8,400	6,700	260	--	1.9	22	<2.0	--	1.0	<0.025
ACW #01	ACW #01	28-Aug-95	6	<10	<5	--	--	--	21,000	--	8.2	12,000	3,300	210	--	2.2	18	<20	--	0.8	<0.025	
ACW #01	ACW #01	6-Feb-96	6.1	3	1.9	--	--	--	16,000	--	8.3	9,700	5,200	280	--	2.1	88	0.02	--	1.0	<0.006	
ACW #01	ACW #01	6-Feb-96	5.6	2.7	3	--	--	--	16,170	--	8.2	9,440	5,700	293	--	2.06	2.1	<1.25	--	1.1	<0.1	
ACW #01	ACW #01	8-May-96	6.3	2.03	<1.0	--	--	<3.0	--	14,620	8.2	8,190	4,130	268	--	<1.25	2.2	<1.25	--	1.0	<0.01	
ACW #01	ACW #01	13-Aug-96	3.5	1.2	<1.0	--	--	<2.0	--	12,000	8.1	7,400	3,500	270	--	1.9	4.9	<0.05	--	1.1	<0.019	
ACW #01	ACW #01	5-Nov-96	5.6	2.5	<1.0	--	--	1.3	--	11,000	8.1	7,200	3,700	250	--	2	4.4	<0.05	--	1.0	<0.007	
ACW #01	ACW #01	6-May-97	14	15	<5.0	--	--	5.7	--	14,800	--	8,800	5,200	--	--	--	--	--	--	--	--	--
ACW #01	ACW #01	21-Nov-97	6.1	4.8	<0.5	--	--	2.4	--	20,800	8.4	12,000	7,800	320	--	<2	21	<0.5	--	1.0	<0.01	
ACW #01D	ACW #01D	21-Nov-97	6.7	5.7	<0.5	--	--	2.1	--	20,700	8.2	12,000	7,500	320	--	2	22	<0.5	--	0.9	<0.01	
S98-0170	ACW #01	12-May-98	6.8	11	4.4	--	--	3.4	--	16,000	--	9,600	5,200	--	--	--	--	--	--	--	--	--
S98-0458	ACW #01	20-Oct-98	7	4	<2.0	--	<2.0	--	20,300	--	8.18	12,900	6,100	260	1777	<5	23	<0.05	--	1.1	<0.025	
M99-0005	ACW #01	11-May-99	--	--	--	--	--	--	16,900	--	8,500	5,400	--	--	--	--	--	--	--	--	--	
M99-0187	ACW #01	19-Oct-99	7.5	3.6	<2	--	--	<4	--	14,800	8.02	7,800	5,500	210	20.6	<4	2.2	<0.05	--	1.2	<0.005	
M99-0081	ACW #01	9-May-00	--	--	--	--	--	--	19,300	--	11,300	7,000	--	--	--	--	--	--	--	--	--	
M99-0219	ACW #01	26-Oct-00	<2	<2	--	--	--	8.3	--	15,500	8.13	9,900	5,500	300	15.2	<2	23	<1	--	0.30	<0.005	
M99-0133	ACW #01	1-May-01	--	--	--	--	--	--	14,200	--	7,640	5,300	--	--	--	--	--	--	--	--	--	
M01-0469	ACW #01	22-Oct-01	<2	<2	--	--	--	11.0	--	12,400	7.92	6,580	4,400	380	20.3	<5	2.5	<2.5	--	<0.05	<0.01	
2002040220-03	ACW #01	29-Apr-02	--	--	--	--	--	--	12,400	--	6,730	4,800	--	--	--	--	--	--	--	--	--	
200210898-6	ACW #01	3-Nov-02	<5.0	<5.0	<5.0	<10	<5.0	<15	--	6,400	6.65	H 4,000	1,900	420	--	1.4	<0.40	<0.20	--	0.13	--	--
2003101363-9	ACW #01	4-Nov-03	2.2	<2.0	--	--	<6.0	--	5,530	7.2	5,150	2,480	--	20.3	--	--	--	--	--	--	--	--
2004111601-3	ACW #01	9-Nov-04	<1.0	1.7	<1.0	--	--	<2.0	--	5,780	7.5	5,140	2,570	--	19.6	--	--	--	--	--	--	--
ACW #02A	ACW #02A	6-May-97	140	100	<50	--	--	<100	--	26,800	--	17,000	11,000	--	--	--	--	--	--	--	--	--
ACW #02A	ACW #02A	20-Oct-97	89	100	13	--	--	26	--	24,400	9.2	16,000	8,600	<10	--	5	7.6	<0.5	--	1.1	<0.01	
S98-0167	ACW #02A	11-May-98	120	210	20	--	--	33	--	26,000	--	16,000	8,200	--	--	--	--	--	--	--	--	--
S98-0455	ACW #02A	19-Oct-98	180	340	38	--	--	72	--	25,200	9.40	20,200	7,800	--	17	18.3	<5	12	<0.05	--	1.4	<0.025
M99-0013	ACW #02A	12-May-99	--	--	--	--	--	--	24,400	--	12,000	7,400	--	--	--	--	--	--	--	--	--	
M99-0181	ACW #02A	18-Oct-99	17 P	42 P	8.1 P	--	--	14 P	--	24,000	9.42	13,000	7,600	25	19.8	<4	16	<0.05	--	3.6	0.48	
M99-0078	ACW #02A	8-May-00	--	--	--	--	--	--	21,500	--	13,600	7,200	--	--	--	--	--	--	--	--	--	
M99-0215	ACW #02A	26-Oct-00	35	78	16	--	--	32	--	19,100	9.75	12,800	7,400	--	14.1	<2	11	<1	--	1.31	0.018	
M99-0136	ACW #02A	2-May-01	--	--	--	--	--	--	18,500	--	10,900	5,400	--	--	--	--	--	--	--	--	--	
M01-0468	ACW #02A	22-Oct-01	39	34	30	--	--	57	--	19,900	9.88	12,100	6,400	6.5	19.8	<10	11	<5	--	1.4	0.26	
2002040220-11	ACW #02A	30-Apr-02	--	--	--	--	--	--	22,300	--	14,000	6,300	--	--	--	--	--	--	--	--	--	
200210896-4	ACW #02A	3-Nov-02	61	32	35	47	>20	47	--	19,000	9.85 H	8,800	3,200	--	<0.50	14</						

Table 2 : Summary of Laboratory Analyses of Groundwater Samples

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Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Toluene, $\mu\text{g/l}$	Ethylbenzene, $\mu\text{g/l}$	m-Xylenes, $\mu\text{g/l}$	p-Xylenes, $\mu\text{g/l}$	o-Xylenes, $\mu\text{g/l}$	Total Xylenes, $\mu\text{g/l}$	MTEB, $\mu\text{g/l}$	Casoline Range Organics, $\mu\text{g/l}$	Specific Conductance, $\mu\text{mho/cm}$	Nitrile-N, mg/l	Aluminum, mg/l	Arsenic, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	
M00-0217	ACW #03	26-Oct-00	--	--	--	--	--	--	--	17,500	--	11,900	7,400	--	--	--	--	--	--	
M01-0132	ACW #03	1-May-01	--	--	--	--	--	--	19,200	--	9,900	9,500	--	--	--	--	--	--	--	
M01-0474	ACW #03	23-Oct-01	--	--	--	--	--	--	18,800	--	10,600	7,100	--	--	--	--	--	--	--	
M020204020-13	ACW #03	30-Apr-02	--	--	--	--	--	--	18,500	--	10,600	6,000	--	--	--	--	--	--	--	
M020210896-3	ACW #03	3-Nov-03	37	<10	28	<20	<10	<30	--	13,000	7,56 H	13,000	4,700	13	2.2	<0.40	-0.20 H	0.043	--	
M03101363-3	ACW #03	2004111601-8	ACW #03	9-Nov-04	13.7	5.4	8.3	--	29.4	--	11,080	6.8	8,310	4,070	--	21.2	--	--	--	--
M04	ACW #04	6-May-97	29	<12	<5.0	--	<10	--	48,500	--	25,000	21,000	--	--	33	<0.5	<0.5	--	<0.01	--
S98-0168	ACW #04	20-Oct-97	170	150	<5.0	--	--	110	--	172,000	7.3	94,000	58,000	2,100	--	0.7	--	580	--	--
S98-0172	ACW #04	12-May-98	190	170	60	--	--	100	--	160,000	--	99,000	74,000	--	--	--	--	--	--	--
S98-0174	ACW #04	19-Oct-98	190	140	49	--	--	90	--	121,000	6.74	83,100	1,800	--	16,000	<0.5	<0.5	--	610	--
M09-0012	ACW #04	12-May-99	--	--	--	--	--	--	--	131,000	--	84,800	45,000	--	--	--	--	--	--	--
M09-0184	ACW #04	19-Oct-99	240	160	44	--	--	81	--	95,000	6.95	46,300	44,000	1,300	20.7	<0.25	0.092	0.15	1.4	<0.002
M00-0079	ACW #04	8-May-00	--	--	--	--	--	--	--	106,000	--	72,300	47,000	--	--	--	--	<0.005	0.0080	--
M00-0216	ACW #04	26-Oct-00	63	17	41	--	--	190	--	25,600	7.73	16,300	10,000	88	15.1	<2	<1	0.47	0.87	2.0
M01-0137	ACW #04	2-May-01	--	--	--	--	--	--	--	29,600	--	17,400	12,000	--	--	--	--	--	--	--
M01-0467	ACW #04	22-Oct-01	12	3	32	--	--	100	--	35,300	7.15	21,400	13,000	200	20.2	<0.05	0.31	0.81	1.5	<0.005
M020204020-12	ACW #04	30-Apr-02	--	--	--	--	--	--	--	35,600	--	24,500	15,000	--	--	--	--	290	<0.01	<0.01
M020210896-5	ACW #04	3-Nov-02	84	17	27	34	11	45	--	33,000	7.71 H	24,000	11,000	450	--	1.9	1.3	0.69	--	--
M03101363-10	ACW #04	4-Nov-03	44.8	5.5	15.0	--	--	26.5	--	22,400	6.9	20,900	14,200	--	21.7	--	--	0.21	--	--
M04111601-7	ACW #04	9-Nov-04	189 R	42.9	69.8	--	--	101	--	54,400	7.0	19,700 (20,000)	10,800	--	20.8	--	--	--	--	--
M05	ACW #05	10-Mar-93	--	--	--	--	--	--	--	10,400	--	6,110	2,544	--	--	--	--	--	--	--
M05	ACW #05	17-Jun-93	--	--	--	--	--	--	--	323	--	1,228	650	--	--	--	--	--	--	--
M05	ACW #05	16-Sep-93	--	--	--	--	--	--	--	4,480	--	3,064	650	--	--	--	--	--	--	--
M05	ACW #05	9-Nov-93	--	--	--	--	--	--	--	4,140	--	4,140	650	--	--	--	--	--	--	--
M05	ACW #05	21-Apr-94	--	--	--	--	--	--	--	4,131	--	3,300	800	--	--	--	--	--	--	--
M05	ACW #05	28-Oct-94	--	--	--	--	--	--	--	4,500	--	3,112	550	--	--	--	--	--	--	--
M05	ACW #05	31-Jan-95	--	--	--	--	--	--	--	4,050	--	2,848	499	--	--	--	--	--	--	--
M05	ACW #05	16-May-95	<5	<10	<5	<5	<5	<15	--	3,900	7.0	2,800	530	1,100	--	1.3	<1.0	3.5	--	<0.025
M05	ACW #05	27-Jun-95	<2.5	<2.5	--	--	--	<5.0	--	3,800	7.3	2,800	460	800	--	1.1	<1.0	3.4	--	<0.025
M05	ACW #05	30-Aug-95	<5	<10	<5	--	--	<15	--	3,900	7.0	2,700	510	890	--	1.2	0.57	<0.05	--	<0.007
M05	ACW #05	6-Feb-96	<10	<10	<10	--	--	<2.0	--	3,800	7.5	2,200	510	920	--	0.92	0.12	4.7	--	<0.006
M05	ACW #05	6-Feb-96	<2.5	<2.5	--	--	--	<7.5	--	3,090	7.3	2,745	506	835	--	<1.25	0.29	4.9	--	<0.1
M05	ACW #05	8-May-96	<1.0	<1.0	--	--	--	<3.0	--	3,650	7.2	2,460	519	653	--	4.5	0.42	5	--	0.01
M05	ACW #05	13-Aug-96	12	<1.0	--	--	<2.0	--	3,400	7.3	2,500	500	710	--	1.0	<1.0	3.4	--	2.0	<0.006
M05	ACW #05	6-Nov-96	1.1	1.4	1.2	--	--	<2.0	--	3,300	7.5	2,300	500	710	--	1.2	0.57	<0.05	--	<0.007
M05	ACW #05	7-May-97	0.84	1.2	0.93	--	--	<1.0	--	3,020	--	2,000	430	--	--	1.4	--	240	--	--
M05	ACW #05	22-Oct-97	0.9	1.6	0.8	--	--	<1.9	--	3,160	7.7	2,000	470	320	--	1.7	0.6	6	--	170
M05	ACW #05	13-May-98	0.79	1.5	0.77*	--	--	<12*	--	3,100	--	2,800	570	--	--	1.3	--	--	--	--
M05	ACW #05	21-Oct-98	--	--	--	--	--	--	--	2,930	--	1,910	440	18.5	--	1.2	0.77	6.5	--	<0.005
M05	ACW #05	13-May-99	--	--	--	--	--	--	--	3,190	--	1,960	450	1,000	--	1.1	<0.02	190	0.019	<0.0025
M05	ACW #05	21-Oct-99	<2	2.7	<2	--	--	<4	--	3,250	7.23	1,890	460	1,960	--	1.0	<0.1	0.051	1.1	<0.01
M05	ACW #05	10-May-00	--	--	--	--	--	--	--	3,180	--	2,800	570	--	--	1.0	<0.1	0.051	1.1</td	

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Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

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Laboratory Sample Number	Sample Description	Sample Date	Benzene, µg/l	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Nickel, mg/l	Potassium, mg/l	Silica, 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	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #06	ACW #06	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #06	ACW #06	8-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	---	48	---	2,200	---	<0.020	1,300	---	200	---	
ACW #06	ACW #06	27-Jun-95	5.8	---	16	0.082	---	44	---	3,000	---	<0.080	1,500	---	130	---	
ACW #06	ACW #06	29-Aug-95	0.54	---	16	0.04	---	42	---	2,500	---	<0.020	1,500	---	200	---	
ACW #06	ACW #06	6-Feb-96	4.6	---	23	0.12	---	3.6	---	2,700	---	0.029	1,400	---	320	---	
ACW #06	ACW #06	6-Feb-96	5	---	21	0.1	---	50	---	2,400	---	<0.1	1,315	---	275	---	
ACW #06	ACW #06	8-May-96	4.1	---	21	0.14	---	4	---	2,380	---	<0.5	1,396	---	175	---	
ACW #06	ACW #06	14-Aug-96	4.5	---	23	0.13	---	3.4	---	2,900	---	0.024	1,400	---	310	---	
ACW #06	ACW #06	6-Nov-96	5.3	---	27	0.16	---	3.8	---	2,800	---	0.032	1,600	---	360	---	
ACW #06	ACW #06	6-Nov-96	4	---	22	0.13	---	3.6	---	2,400	---	0.019	1,600	---	310	---	
ACW #06	ACW #06	8-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #06	ACW #06	22-Oct-97	2.6	---	19	0.11	---	3	---	2,200	---	<0.02	1,400	---	---	---	
ACW #06D	ACW #06D	22-Oct-97	2.3	---	19	0.11	---	3	---	2,200	---	<0.02	1,400	---	---	---	
S98-0181	ACW #06	13-May-98	---	---	---	---	---	21	---	---	---	---	---	---	---	---	
S98-0469	ACW #06	21-Oct-98	2.4	---	23	0.099	---	2.7	---	2,640	---	<0.05	1,600	1,600	<25	250	
M99-0019	ACW #06	13-May-99	---	---	---	---	---	21	---	---	---	---	---	---	---	---	
M99-0195	ACW #06	21-Oct-99	2.2	<0.05	19	0.087	<0.0002	0.080	0.030	2.3	---	<0.05	2,900	<0.005	250	250	
M00-0089	ACW #06	10-May-00	---	---	---	---	---	29	---	---	---	---	---	---	---	---	
M00-0232	ACW #06	2-Nov-00	9.7	<0.05	22	0.13	<0.0002	---	6.9	<0.1	30	<0.02	710	---	<0.1	1,200	
M01-0156	ACW #06	6-May-01	---	---	23	0.099	---	2.7	---	2,640	---	<0.05	1,600	1,600	<25	250	
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	<1	
2002040220-10	ACW #06	29-Apr-02	---	---	13	0.12	---	11	---	2,100	---	---	---	---	---	---	
2002110896-15	ACW #06	5-Nov-02	9.0	---	13	0.12	---	11	---	2,100	---	1400	1400	<2.0	<2.0	320	
2003101363-17	ACW #06	5-Nov-03	---	---	---	---	---	11	---	2,100	---	1,440	1,440	---	---	---	
2004111601-28	ACW #06	12-Nov-04	---	---	---	---	---	11	---	2,100	---	1,190	1,190	---	---	---	
2004111601-29	ACW #06D	12-Nov-04	---	---	---	---	---	11	---	2,100	---	1,260	1,260	---	---	---	
ACW #07	ACW #07	7-May-97	14.4	---	80	0.2	---	3	---	18	---	2,500	---	<0.2	730	---	
S98-0182	ACW #07	13-May-98	---	---	---	---	---	11	---	18	---	---	---	---	---	---	
S98-0467	ACW #07	21-Oct-98	15	---	91	0.15	---	4.3	---	23	---	3,100	---	<0.05	830	<25	
M99-0017	ACW #07	12-May-99	---	---	---	---	---	11	---	23	---	---	---	---	---	---	
M99-0194	ACW #07	21-Oct-99	14	<0.05	93	0.13	<0.0002	0.025	<0.02	3.8	---	<0.005	3,300	<0.005	<0.05	870	
M00-0088	ACW #07	10-May-00	---	---	---	---	---	23	---	23	---	---	---	---	---	---	
M00-0231	ACW #07	2-Nov-00	12	<0.05	87	0.11	<0.0002	---	4.2	<0.1	31	<0.02	710	---	<0.1	840	
M01-0152	ACW #07	6-May-01	---	---	9.0	0.15	---	4.3	---	23	---	---	---	---	---	---	
M01-0153	ACW #07D	6-May-01	---	---	9.0	0.15	---	4.3	---	23	---	---	---	---	---	---	
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
2002040220-14	ACW #07	30-Apr-02	---	---	13	0.12	---	15	---	51	---	---	---	---	---	---	
2002110896-16	ACW #07	5-Nov-02	13	---	100	0.12	---	15	---	3,600	---	870	870	<2.0	<2.0	1,100	
2003101363-18	ACW #07	5-Nov-03	---	---	13	0.12	---	15	---	3,180	---	870	870	<2.0	<2.0	1,100	
2004111601-27	ACW #07	12-Nov-04	---	---	13	0.12	---	15	---	3,140	---	3,140	3,140	---	---	---	
		10-Nov-04	0.8	---	13	0.12	---	15	---	3,140	---	3,140	3,140	---	---	---	

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Laboratory Sample Number	Sample Description	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	m-Xylene, µg/l	p-Xylene, µg/l	m-Xylene, µg/l	p-Xylene, µg/l	Total Xylenes, µg/l	TBEE, µg/l	Gasoline Range Organics, mg/l	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Nitrate as NO ₃ , mg/l	Aluminum, mg/l	Arsenic, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l
ACW #08	ACW #08	6-May-97	99	10	4.1	—	—	3.9	—	89,200	—	50,000	29,000	—	—	—	—	—	—	—	—	—	—
ACW #08	ACW #08	21-Nov-97	36	3.9	2	—	—	14	—	49,200	7.0	29,000	17,000	800	<5	0.6	<0.5	—	0.6	—	440	<0.01	<0.025
S98-0173	ACW #08	12-May-98	37	4.5	2.9	—	—	1.6	—	48,000	—	28,000	34,000	—	—	—	—	—	—	—	—	—	—
S98-0459	ACW #08	20-Oct-98	140	13	6	—	—	6	—	44,200	6.79	28,700	24,000	740	17.9	<10	0.82	<0.05	—	—	370	—	<0.0025
M99-0010	ACW #08	11-May-99	—	—	—	—	—	—	—	52,500	—	29,800	21,000	—	—	—	—	—	—	—	—	—	—
M99-0186	ACW #08	19-Oct-99	32	6.2	3.7	—	—	<4	—	36,400	7.09	17,700	15,000	580	20.5	<10	0.86	<0.05	<0.025	<0.005	0.11	0.83	<0.005
M00-0086	ACW #08	9-May-00	—	—	—	—	—	—	—	62,900	—	41,800	32,000	—	—	—	—	—	—	—	—	—	—
M00-0218	ACW #08	26-Oct-00	15	<2	2.1	—	—	10	—	36,300	6.85	26,000	17,000	740	15.0	<2	0.92	<1	<0.1	0.15	0.79	<0.01	<0.005
M01-0134	ACW #08	1-May-01	—	—	—	—	—	—	—	51,300	—	28,200	25,000	—	—	—	—	—	—	—	—	—	—
M01-0475	ACW #08	23-Oct-01	41	5	3.1	—	—	<2	—	33,400	7.02	20,000	11,000	580	21.6	<20	1.1	<10	<0.05	<0.1	0.12	0.62	<0.005
200204020-08	ACW #08	29-Apr-02	—	—	—	—	—	—	—	69,400	—	53,400	30,000	—	—	—	—	—	—	—	—	—	—
2002110896-10	ACW #08	4-Nov-02	10	1.5	1.2	<2.0	<1.0	<3.0	—	11,000	7.60 H	6,200	—	<0.50	<0.40	0.93 H	—	—	0.0055	—	0.27	—	140
2003101363-4	ACW #08	3-Nov-03	70	<20	<2.0	—	—	<6.0	—	12,350	6.7	8,670	5,350	—	21.2	—	—	—	—	—	—	—	—
2004111601-9	ACW #08	9-Nov-04	25.3	2.1	1.6	—	—	1.2 J	—	16,200	6.9	10,100	6,280	—	21.4	—	—	—	—	—	—	—	—
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	9-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	1-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	<5	22	<5	<5	<5	<15	—	11,000	6.6	6,800	5,600	440	2.1	<1.0	<2.0	—	0.4	—	820	<0.025	<0.025
ACW #09	ACW #09	28-Jun-95	<2.5	<2.5	<2.5	—	—	<5.0	—	9,100	7.0	6,200	3,500	360	1.9	<1.0	<2.0	—	0.4	—	770	<0.025	<0.025
ACW #09	ACW #09	30-Aug-95	<5	<10	<5	—	—	<15	—	7,150	6.5	4,500	2,500	370	1.5	<10	<20	—	0.4	—	640	<0.006	<0.006
ACW #09	ACW #09	7-Feb-96	1.8	<1.0	<1.0	—	—	<2.0	—	7,500	7.7	5,400	2,400	320	1.5	0.16	0.039	—	0.4	—	570	—	<0.007
ACW #09	ACW #09	7-Feb-96	<2.5	<2.5	<2.5	—	—	<7.5	—	7,450	6.8	4,620	2,300	341	1.85	0.36	<1.25	—	0.4	—	600	—	<0.1
ACW #09	ACW #09	8-May-96	<1.0	<1.0	<1.0	—	—	<3.0	—	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	1.4	1.6	<1.0	—	—	<2.0	—	4,400	7.4	3,600	1,200	180	1.2	1.4	0.13	—	0.4	—	490	—	<0.006
ACW #09	ACW #09	7-Nov-96	2.3	2.2	<1.0	—	—	<2.0	—	4,200	7.3	3,100	1,200	—	—	1.1	0.056	—	0.3	—	360	—	<0.007
ACW #09	ACW #09	19-Feb-97	1.3	4.0	4.0	—	—	4.2	—	4,110	—	2,500	1,260	—	—	—	—	—	—	—	—	—	—
ACW #09	ACW #09	8-May-97	2.6	2.6	1.4	—	—	1.7	—	2,800	—	2,100	830	—	—	—	—	—	—	—	—	—	—
ACW #09	ACW #09	23-Oct-97	<0.5	<0.5	<0.5	—	—	<1.0	—	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	<0.50	<0.50	<0.50	—	—	<1.0	—	5,100	—	4,500	1,600	—	—	—	—	—	—	—	—	—	—
S98-0472	ACW #09	21-Oct-98	6	<2	<2	—	—	<2	—	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	<2	<2	<2	—	—	<2	—	8,580	6.78	5,950	2,900	280	19.6	<4	0.71	<0.05	0.13	0.43	<0.006	0.005	<0.0025
M00-0100	ACW #09	12-May-00	—	—	—	—	—	—	—	7,830	—												

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Laboratory Sample Number	Sample Description	Sample Date	Lead, mg/l	Manganese, mg/l	Nickel, mg/l	Potassium, mg/l	Silica, mg/l	Silver, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as CaCO ₃), mg/l	Alkalinity - Hydroxide, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Bicarbonate, mg/l	Hardness (as CaCO ₃), mg/l	Alkalinity - Hydroxide, mg/l	
ACW #08	ACW #08	6-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #08	ACW #08	21-Nov-97	1.3	—	2.0	2.2	—	—	57	—	19	—	9,300	—	<0.02	520	
S98-0113	ACW #08	12-May-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0459	ACW #08	20-Oct-98	1.5	—	200	1.7	—	—	46	—	19	—	11,000	—	<0.05	430	
M98-0010	ACW #08	11-May-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M98-0186	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
M00-0086	ACW #08	9-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
M01-0134	ACW #08	1-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
200204020-08	ACW #08	29-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002110896-10	ACW #08	4-Nov-02	1.5	—	53	0.48	—	—	—	51	—	23	—	3,000	—	—	210
2003101363-4	ACW #08	3-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004111601-9	ACW #08	9-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	17-Jun-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	14-Sep-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	9-Nov-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	22-Apr-94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	1-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
ACW #09	ACW #09	28-Jun-95	0.28	—	250	0.98	—	—	—	15	—	51	—	1,000	—	<0.020	300
ACW #09	ACW #09	30-Aug-95	0.19	—	220	0.86	—	—	—	14	—	43	—	880	—	<0.040	240
ACW #09	ACW #09	7-Feb-96	0.48	—	180	0.71	—	—	—	14	—	47	—	810	—	<0.010	300
ACW #09	ACW #09	7-Feb-96	0.4	—	175	0.7	—	—	—	16	—	56	—	810	—	<0.1	291
ACW #09	ACW #09	8-May-96	0.4	—	183	0.49	—	—	—	17	—	60	—	687	—	<0.05	209
ACW #09	ACW #09	14-Aug-96	0.66	—	160	0.65	—	—	—	13	—	53	—	730	—	0.027	220
ACW #09	ACW #09	7-Nov-96	0.4	—	110	0.44	—	—	—	10	—	51	—	510	—	0.029	—
ACW #09	ACW #09	19-Feb-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #09	ACW #09	8-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
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	—	<0.005	990	0.032	<0.05	270	<25
M00-0100	ACW #09D	12-May-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0101	ACW #09D	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0237	ACW #09	3-Nov-00	1.4	<0.05	160	0.43	<0.0002	—	—	18	<0.1	32	<0.02	670	—	<0.1	500
M00-0238	ACW #09D	3-Nov-00	1.4	<0.05	150	0.42	<0.0002	—	—	18	<0.1	31	<0.02	630	—	<0.1	510
M01-0147	ACW #09	6-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
M01-0494	ACW #09D	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
2002040220-19	ACW #09	1-May-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-20	ACW #09D	1-May-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002110896-21	ACW #09	6-Nov-02	1.9	—	97	0.19	—	—	—	33	—	48	—	1,400	—	—	600
2003101363-23	ACW #09	6-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004111601-17	ACW #09	10-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jai #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Benzene, $\mu\text{g/l}$	Toluene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	o-Xylene, $\mu\text{g/l}$	Total Xylylene, $\mu\text{g/l}$	Gaseous Range Organics	MTBE, $\mu\text{g/l}$	Specific Conductance, $\mu\text{mho/cm}$	Nitrate-N, mg/l	Nitrate-NO ₃ , mg/l	Aluminum, mg/l	Arsenic, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	
ACW #10	ACW #10	18-Jun-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	14-Sep-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	9-Nov-93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	22-Apr-94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	28-Oct-94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	1-Feb-95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACW #10	ACW #10	17-May-95	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.9	1,426	619	—	—	—	—	<0.025	
ACW #10	ACW #10	28-Jun-95	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	3,900	2,300	1,600	300	1.1	<1.0	1.1	—	—
ACW #10	ACW #10	30-Aug-95	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	3,100	7.3	2,300	1,900	230	0.98	<1.0	<2.0	<0.025
ACW #10	ACW #10	7-Feb-96	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3,100	7.0	2,200	790	210	0.9	<10	<20	<0.025
ACW #10	ACW #10	7-Feb-96	4.3	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	3,200	7.8	2,300	850	230	0.88	<1.25	<2.5	<0.006
ACW #10	ACW #10	8-May-96	1.22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3,222	7.2	1,290	603	190	4.5	0.46	—	<0.1
ACW #10	ACW #10	14-Aug-96	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2,400	7.6	1,900	560	160	0.82	1.4	0.58	<0.006
ACW #10	ACW #10	7-Nov-96	1.2	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	250	7.5	1,800	610	170	0.83	1.1	0.49	<0.007
ACW #10	ACW #10	8-May-97	1.3	1	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,880	—	1,500	480	—	—	—	—	—
ACW #10	ACW #10	23-Oct-97	1.14	1.17	<0.5	<0.5	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	2,870	7.2	1,500	670	210	1.2	1	0.36	<0.01
S98-0187	ACW #10	14-May-98	—	—	—	—	—	—	—	—	—	—	2,400	—	1,200	540	—	—	—	—	—
S98-0473	ACW #10	22-Oct-98	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2,900	7.06	1,960	800	210	20.8	<2	0.90	0.83
M99-0023	ACW #10	13-May-99	—	—	—	—	—	—	—	—	—	—	2,810	—	1,500	480	—	—	—	—	—
M99-0201	ACW #10	22-Oct-99	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2,470	7.23	1,720	660	194	<2	1.2	1	0.36
M99-0099	ACW #10	11-May-00	—	—	—	—	—	—	—	—	—	—	3,620	—	2,430	1,460	—	—	—	—	—
M99-0243	ACW #10	6-Nov-00	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3,100	7.1	2,840	980	220	16.4	<2	1.0	<1
M99-0158	ACW #10	6-May-01	—	—	—	—	—	—	—	—	—	—	3,660	—	2,360	1,000	—	—	—	—	—
M99-0487	ACW #10	25-Oct-01	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3,350	7.02	2,270	930	220	19.8	2.1	0.5	<0.005
2002040220-21	ACW #10	1-May-02	—	—	—	—	—	—	—	—	—	—	3,440	—	1,970	1,000	—	—	—	—	—
2002110896-25	ACW #10	8-Nov-02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2,600	7.15 H	2,000	740	250	0.64	1.4	0.86	<0.0061
2003101363-21	ACW #10	6-Nov-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2,580	6.6	2,160	795	—	18.7	—	—	—
2004111601-21	ACW #10	11-Nov-04	0.51	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2,670	6.7	1,990	720	—	19.2	—	<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	9-Nov-93	—	—	—	—	—	—	—	—	—	—	10,180	—	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	1-Feb-95	—	—	—	—	—	—	—	—	—	—	32,200	—	19,880	11,582	—	—	—	—	—
ACW #11	ACW #11	17-May-95	<5	<10	<5	<10	<5	<10	<5	<10	<5	<10	12,000	6.8	7,200	4,400	250	1.9	<1.0	<2.0	<0.025
ACW #11	ACW #11	27-Jun-95	5.1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	11,000	7.2	7,000	6,500	210	1.6	<1.0	<2.0	<0.025
ACW #11	ACW #11	29-Aug-95	8	<10	<5	<5	<5	<5	<5	<5	<5	<5	10,000	6.8	6,000	3,400	220	2.2	6.2	<	

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Nickel, mg/l	Molybdenum, mg/l	Potassium, mg/l	Selenium, mg/l	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as CaCO ₃), mg/l	
ACW #10	ACW #10	18-Jun-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	14-Sep-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	9-Nov-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	22-Apr-94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	28-Oct-94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	1-Feb-95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	7-Feb-96	0.24	--	110	0.032	--	8.4	--	36	--	190	--	0.014	200	--	--	1,200	
ACW #10	ACW #10	7-Feb-96	0.4	--	107	<0.1	--	9.4	--	54	--	190	--	<0.1	194	--	--	1,240	
ACW #10	ACW #10	8-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	7-Nov-96	0.22	--	70	0.017	--	7.4	--	20	--	150	--	0.025	170	--	--	800	
ACW #10	ACW #10	8-May-97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #10	ACW #10	23-Oct-97	0.2	--	71	0.02	--	6	--	20	--	140	--	<0.02	200	--	--	--	
ACW #10	ACW #10	14-May-98	--	--	--	--	--	--	--	--	--	--	--	<0.05	180	--	<25	<25	
S98-0473	ACW #10	22-Oct-98	0.099	--	110	0.0068	--	9.0	--	27	--	180	--	<0.05	180	--	<25	<25	
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	<25	<25
M00-0099	ACW #10	11-May-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
M00-0243	ACW #10	6-Nov-00	0.27	<0.05	140	0.026	<0.0002	--	--	16	<0.1	30	<0.02	330	--	<0.1	180	<25	<25
M01-0158	ACW #10	6-May-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,800	
M01-0187	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	<25	<25
2002040220-21	ACW #10	1-May-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2002110886-25	ACW #10	8-Nov-02	0.22	--	110	0.016	--	--	--	15	--	55	--	270	--	--	180	<2.0	<2.0
2003101363-21	ACW #10	6-Nov-03	--	--	--	--	--	--	--	--	--	--	--	182	--	--	--	--	
2004111601-21	ACW #10	11-Nov-04	--	--	--	--	--	--	--	--	--	--	--	176	--	--	--	--	
ACW #11	ACW #11	19-Jun-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #11	ACW #11	15-Sep-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #11	ACW #11	9-Nov-93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #11	ACW #11	21-Apr-94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #11	ACW #11	27-Oct-94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ACW #11	ACW #11	29-Aug-95	0.17	--	210	0.088	--	--	--	16	--	44	--	880	--	<0.020	230	--	3,300
ACW #11	ACW #11	7-Feb-96	0.38	--	230	0.13	--	26	--	47	--	1,500	--	<0.010	210	--	--	2,600	
ACW #11	ACW #11	7-Feb-96	0.5	--	224	0.1	--	31	--	46	--	1,400	--	<0.1	200	--	--	2,590	
ACW #11	ACW #11	8-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	5-Nov-96	0.25	--	430	0.14	--	35	--	21	--	5,100	--	0.068	170	--	--	4,700	
ACW #11	ACW #11	6-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	<0.005	520	0.35	--	41.0	--	22	--	5,100	--	<0.05	180	<25	<25	5,900	
M99-0014	ACW #11	12-May-99	0.68	<0.005	280	0.17	<0.0045	<0.002	<0.02	27	--	19	<0.005	2,300	0.013	<0.05	140	<25	<25
M99-0192	ACW #11	20-Oct-99	0.68	<0.005	280	0.17	<0.0045	<0.002	<0.02	27	--	19	<0.005	2,300	0.013	<0.05	140	<25	<25

Table 2 : Summary of Laboratory Analyses of Groundwater Samples

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Date	Sample Description	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium, mg/l	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
M00-0087	ACW #11	9-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
M00-0227	ACW #11	1-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	1-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	---	
2002040220-09	ACW #11	29-Apr-02	---	---	---	---	---	50	48	3,000	---	220	220	<2.0	<2.0	4,800	---	---	
2002110896-19	ACW #11	6-Nov-02	1.3	410 0.26	---	---	<0.040	---	<0.010	1,740	---	<0.020	---	---	---	---	---	---	
2003101363-8	ACW #11	4-Nov-03	---	<0.010	---	---	---	---	---	2,270	---	---	---	---	---	---	---	---	
2004111601-14	ACW #11	10-Nov-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #12	ACW #12	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #12	ACW #12	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #12	ACW #12	8-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ACW #12	ACW #12	20-Aug-97	0.5	31 0.05	---	---	23	18	---	100	---	<0.02	130	---	---	---	---	---	
ACW #12	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	1-Jun-98	---	73	---	---	9	23	---	130	---	---	150	---	---	---	---	---	
S98-0189	ACW #12D	1-Jun-98	---	71	---	---	9	22	---	130	---	---	150	---	---	---	---	---	
S98-0294	ACW #12	11-Aug-98	---	62	---	---	9.8	21	---	130	---	---	140	140	<25	710	---	---	
S98-0295	ACW #12D	11-Aug-98	---	61	---	---	9.7	24	---	130	---	---	160	160	<25	700	---	---	
S98-0474	ACW #12	22-Oct-98	0.17	80 0.032	---	---	10	23	---	140	<0.05	150	<25	850	---	---	---	---	
S98-0475	ACW #12D	22-Oct-98	0.17	72 0.029	---	---	10	24	---	130	<0.05	150	<25	810	---	---	---	---	
S99-0083	ACW #12	23-Feb-99	---	73	---	---	8.8	25	---	160	---	---	160	160	<25	810	---	---	
S99-0084	ACW #12D	23-Feb-99	---	68	---	---	8.5	26	---	160	---	---	160	160	<25	750	---	---	
M99-0024	ACW #12	14-May-99	0.16	74 0.026	---	---	9.5	23	---	150	---	<0.05	150	150	<25	840	---	---	
M99-0026	ACW #12D	14-May-99	0.16	73 0.025	---	---	9.0	26	---	140	---	<0.05	150	150	<25	810	---	---	
M99-0087	ACW #12	11-Aug-99	---	96	---	---	9.0	29	---	160	---	---	140	140	<25	1100	---	---	
M99-0088	ACW #12D	11-Aug-99	---	98	---	---	9.2	36	---	160	---	---	140	140	<25	1100	---	---	
M99-0202	ACW #12	22-Oct-99	0.14	<0.005 0.77	0.024 <0.00043	<0.0002	8.4	21	<0.005	140	0.0088 <0.005	140	140	<25	25	860	---	---	
M99-0204	ACW #12D	22-Oct-99	0.16	<0.005 0.79	0.024 <0.0002	<0.0005	8.7	20	<0.005	140	0.0086 <0.005	140	140	<25	25	890	---	---	
M00-0024	ACW #12	22-Feb-00	---	71	---	---	9.2	22	---	130	---	---	130	130	<25	800	---	---	
M00-0098	ACW #12	11-May-00	---	51	---	---	9.3	28	---	120	---	---	140	140	<25	590	---	---	
M00-0197	ACW #12	7-Aug-00	---	45	---	---	10	33	---	110	---	---	140	140	<25	520	---	---	
M00-0240	ACW #12	3-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	750	---	---	
M01-0145	ACW #12	3-May-01	---	56	---	---	9.2	32	---	150	---	---	140	140	<25	630	---	---	
M01-0146	ACW #12D	3-May-01	---	57	---	---	8.9	31	---	150	---	---	150	150	<25	630	---	---	
M01-0405	ACW #12	1-Aug-01	---	64	---	---	9.6	28	---	140	---	---	140	140	<25	710	---	---	
M01-0486	ACW #12	25-Oct-01	0.29 <0.05	56	0.032 <0.0002	<0.01	<0.04	9.3	<0.02	120	0.011 <0.1	140	140	<25	25	630	---	---	
M02-0046	ACW #12	20-Feb-02	---	64	---	---	8.6	36	---	140	---	---	140	140	<25	750	---	---	
M02-0046	ACW #12 R	20-Feb-02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
2002040220-22	ACW #12	1-May-02	---	61	---	---	8.9	35	---	130	---	---	140	140	<25	670	---	---	
2002040220-23	ACW #12D	1-May-02	---	54	---	---	8.8	33	---	110	---	---	150	150	<25	600	---	---	
2002110896-24	ACW #12	7-Nov-02	0.24	63	0.020	---	11	44	---	150	---	---	150	150	<2.0	640	---	---	
2003101363-22	ACW #12	6-Nov-03	---	---	---	---	---	---	---	126	---	---	126	126	---	---	---	---	
2004111601-22	ACW #12	11-Nov-04	---	---	---	---	---	---	---	137	---	---	137	137	---	---	---	---	

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Benzene, $\mu\text{g/l}$	Toluene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	Total Xylylene, $\mu\text{g/l}$	MTBE, $\mu\text{g/l}$	Gasoline Range Organics, mg/l	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Sulfate, mg/l	Chloride, mg/l	Bromide, mg/l	Arsenic, mg/l	Nitrate as NO ₃ , mg/l	Fluoride, mg/l	Nitrogen-N, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l				
ACW #13	ACW #13	20-Feb-97	<0.5	1.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
ACW #13	ACW #13	8-May-97	0.61	0.58	<0.5	—	—	<1.0	—	—	681	—	440	53	—	—	—	—	—	—	—	—	—	—	—	—			
ACW #13D	ACW #13D	8-May-97	0.65	0.62	<0.5	—	—	<1.0	—	—	643	—	460	57	—	—	—	—	—	—	—	—	—	—	—	—			
ACW #13	ACW #13	20-Aug-97	<0.5	<0.5	—	—	—	<1.0	—	—	630	—	460	52	—	—	—	—	—	—	—	—	—	—	—	—			
ACW #13	ACW #13	23-Oct-97	0.59	0.76	<0.5	—	—	<1.0	—	—	654	8.3	440	55	96	—	0.4	1.3	0.99	—	—	—	39	—	<0.01	<0.01			
S98-0060	ACW #13	24-Feb-98	<0.50	<0.50	<0.50	—	—	<1.0	—	—	728	8.3	400	50	95	—	0.4	1.3	1	—	—	—	34	—	<0.01	<0.01			
S98-0190	ACW #13	1-Jun-98	<0.50	<0.50	<0.50	—	—	<1.0	—	—	727	8.4	450	59	100	—	0.5	1.6	1.2	—	—	—	—	—	—	—	—		
S98-0296	ACW #13	11-Aug-98	<2	<2	<2	<2	<2	<6	—	—	679	7.93	467	48	110	19.7	<5	1.6	3.3	—	—	—	—	—	—	—	—		
S98-0476	ACW #13	22-Oct-98	<2	<2	<2	<2	<2	<6	—	—	686	7.94	439	47	92	19.9	<5	1.3	1.3	—	—	0.23	—	—	—	<0.0025	<0.0025		
S99-0085	ACW #13	23-Feb-99	<2	<2	<2	<2	<2	<2	<2	<2	792	8.18	493	74	93	12.6	0.3	1.5	0.74	—	—	—	—	—	—	—	—		
M98-0027	ACW #13	14-May-99	<2	<2	<2	<2	<2	<6	—	<0.25	693	7.96	403	45	96	24.1	0.4	1.3	1.4	—	—	0.25	—	46	—	—	0.0062	—	
M98-0089	ACW #13	11-Aug-99	<2	<2	<2	<2	<2	<6	—	—	676	7.95	359	41	97	21.9	1.2	1.4	1.4	—	—	—	—	49	—	—	—	—	
M98-0205	ACW #13	22-Oct-99	<2	<2	<2	<2	<2	<6	—	—	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	
M00-0028	ACW #13	23-Feb-00	<2	<2	<2	<2	<2	<2	<2	<2	697	7.84	479	53	98	<10	1.5	1.4	—	—	—	—	44	—	—	—	—		
M00-0096	ACW #13	11-May-00	<5	<5	<5	<10	<10	<10	<10	<10	697	8.00	459	47	120	18.2	0.33	1.3	1.5	—	—	—	—	48	—	—	—	—	
M00-0198	ACW #13	8-Aug-00	<2	<2	<2	<2	<2	<4	<4	<4	676	7.90	363	41	100	25.6	0.31	1.3	1.2	—	—	—	—	49	—	—	—	—	
M00-0199	ACW #13D	8-Aug-00	<2	<2	<2	<2	<2	<4	<4	<4	662	7.94	381	44	95	25.7	0.30	1.4	1.2	—	—	—	—	50	—	—	—	—	
M00-0242	ACW #13	6-Nov-00	<2	<2	<2	<2	<2	<4	<4	<4	1,330	7.7	947	360	110	16.7	<2	1.4	1.0	—	<0.1	0.061	0.26	<0.01	55	<0.005	<0.005	<0.005	
M01-0013	ACW #13	20-Feb-01	<2	<2	<2	<2	<2	<4	<4	<4	893	7.81 H	518	110	90	21.6	0.39	1.3	1.4	—	—	—	—	48	—	—	—	—	
M01-0159	ACW #13	7-May-01	<2	<2	<2	<2	<2	<4	<4	<4	685	7.79 H	444	57	110	26.6	0.34	1.3	1.5	—	—	—	—	47	—	—	—	—	
M01-0406	ACW #13	1-Aug-01	<2	<2	<2	<2	<2	<4	<4	<4	694	7.73	402	42	98	23.3	<2	1.4	1.6	—	—	—	—	46	—	—	—	—	
M01-0407	ACW #13D	1-Aug-01	<2	<2	<2	<2	<2	<4	<4	<4	690	7.73	439	45	98	23.6	<2	1.3	1.6	—	—	—	—	42	—	—	—	—	
M01-0490	ACW #13	25-Oct-01	<2	<2	<2	<2	<2	<4	<4	<4	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
M02-0047	ACW #13 R	20-Feb-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	680	7.67	389	44	88	—	2.7	1.4	1.4	—	—	—	—	44	—	—	—	—	
2002040220-24	ACW #13	1-May-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	760	7.73 H	407	54	140	—	<1	1.5	1.4	—	—	—	—	52	—	—	—	—	
2	ACW #13	25-Sep-02	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	807	7.76 H	643	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3	ACW #13D	25-Sep-02	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	789	7.73 H	603	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002110896-23	ACW #13	7-Nov-02	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	740	7.79 H	450	45	140	—	<0.50	1.4	1.6	—	0.010	—	0.23	—	53	—	—	—	—
2003030318/T4112-1	ACW #13	28-Mar-03	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	<6.0	772	7.6 H	502	46.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2003050551-3	ACW #13	19-May-03	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	<6.0	747																		

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Titanium, mg/l	Lead, mg/l	Manganese, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Silica, mg/l	Silver, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as CaCO ₃), mg/l	Alkalinity - Hydroxide, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Bicarbonate, mg/l	Hardness (as CaCO ₃), mg/l
ACW #13	ACW #13	20-Feb-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACW #13	ACW #13	8-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACW #13D	ACW #13D	8-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
S98-0190	ACW #13	1-Jun-98	—	14	—	—	—	10	—	21	—	85	—	—	170	—	—
S98-0296	ACW #13	11-Aug-98	—	14	—	—	—	9.4	—	15	—	85	—	—	170	<25	170
S98-0476	ACW #13	22-Oct-98	0.37	—	16	0.017	—	—	—	7.5	—	23	—	87	—	<0.05	170
S98-0085	ACW #13	23-Feb-99	—	15	—	—	—	—	—	7.0	—	23	—	110	—	180	<25
M99-0027	ACW #13	14-May-99	—	15	0.0084	—	—	—	—	5.3	—	28	—	86	—	<0.05	170
M99-0089	ACW #13	11-Aug-99	—	16	—	—	—	5.0	—	26	—	86	—	—	170	<25	190
M99-0205	ACW #13	22-Oct-99	<0.005	15	0.018	<0.0002	0.0044	<0.02	5.9	—	19	<0.005	89	<0.005	<0.05	160	<25
M00-0028	ACW #13	23-Feb-00	—	14	—	—	—	—	6.3	—	14	—	82	—	—	160	<25
M00-0096	ACW #13	11-May-00	—	16	—	—	—	—	6.6	—	30	—	88	—	—	170	<25
M00-0198	ACW #13	8-Aug-00	—	15	—	—	—	—	5.8	—	<2.0	—	82	—	—	160	<25
M00-0199	ACW #13D	8-Aug-00	—	16	—	—	—	—	6.0	—	37	—	84	—	—	160	<25
M00-0242	ACW #13	6-Nov-00	0.34	<0.05	19	0.024	<0.0002	11	<0.1	29	<0.02	210	<0.1	<0.1	170	<25	220
M01-0013	ACW #13	20-Feb-01	—	16	—	—	—	—	7.5	—	34	—	130	—	—	160	<25
M01-0159	ACW #13	7-May-01	—	6	—	—	—	4.6	—	33	—	88	—	—	180	180	<25
M01-0406	ACW #13	1-Aug-01	—	16	—	—	—	6.1	—	29	—	86	—	—	170	<25	180
M01-0407	ACW #13D	1-Aug-01	—	14	—	—	—	6	—	30	—	80	—	—	160	<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
M02-0047	ACW #13	20-Feb-02	—	14	—	—	—	—	5.0	—	36	—	78	—	—	160	<25
M02-0047	ACW #13 R	20-Feb-02	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—
2002040220-24	ACW #13	1-May-02	—	18	—	—	—	—	5.0	—	33	—	78	—	—	170	<25
2	ACW #13	25-Sep-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	ACW #13D	25-Sep-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2002110896-23	ACW #13	7-Nov-02	0.21	—	19	<0.010	—	—	—	6.6	—	10	—	96	—	180	<2.0
2003030318/T4112-1	ACW #13	28-Mar-03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2003050551-3	ACW #13	19-May-03	—	—	16.200	—	—	—	—	—	—	—	—	57.000	—	182	—
2003080979-3	ACW #13	19-Aug-03	—	—	17.800	—	—	—	—	—	—	—	—	78.600	—	193	—
2003101963-20	ACW #13	6-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	77.400	—	204
2004020197-6	ACW #13	26-Feb-04	—	—	—	—	—	—	—	—	—	—	—	—	80.500	—	—
2004050647-4	ACW #13	12-May-04	—	—	—	—	—	—	—	—	—	—	—	—	76.500	—	—
2004081157-4	ACW #13	24-Aug-04	—	—	—	—	—	—	—	—	—	—	—	—	77.700	—	—
2004111601-20	ACW #13	11-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	79.1	—	—
ACW #14	ACW #14	20-Feb-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACW #14	ACW #14	7-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	—	—
S98-0293	ACW #14	11-Aug-98	—	16	—	—	—	5.5	—	25	—	90	—	—	170	<25	190
S98-0471	ACW #14	21-Oct-98	0.20	—	19	0.014	—	—	6.2	—	25	—	97	<0.05	170	<25	210
S98-0080	ACW #14	23-Feb-99	—	17	—	—	—	—	6.0	—	25	—	110	—	180	<25	190
M99-0021	ACW #14	13-May-99	0.17	—	18	0.011	—	—	5.7	—	28	—	95	—	<0.05	170	<25
M99-0086	ACW #14	9-Aug-99	—	19	—	—	—	5.3	—	24	—	91	—	—	170	<25	210
M99-0197	ACW #14	21-Oct-99	0.21	<0.005	18	0.012	<0.0002	<0.005	5.8	—	21	<0.005	98	0.0062	<0.05	170	<25

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Date	Sample Description	Benzene, µg/l	Toluene, µg/l	m-Xylenes, µg/l	p-Xylenes, µg/l	o-Xylenes, µg/l	Total Xylenes, µg/l	MTEB, µg/l	Gasoline Range Organics	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/l	Chloride, mg/l	Bromide, mg/l	Nitrate-N, mg/l	Nitrate as NO ₃ , mg/l	Aluminum, mg/l	Arsenic, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l
M00-0023	ACW #14	22-Feb-00	<2	<2	<2	<2	<2	<2	<2	2.0	16.1	<1.0	7.65	499	53	97	62	—	—	—	—	—	—	—	—
M00-0093	ACW #14	10-May-00	<5	<5	<10	<5	<4	<4	<4	1.8	21.2	0.38	7.66	485	61	110	51	—	—	—	—	—	—	—	—
M00-0195	ACW #14	7-Aug-00	<2	<2	<2	<2	<2	<2	<2	1.8	25.4	0.27	7.69	439	65	110	50	—	—	—	—	—	—	—	—
M00-0230	ACW #14	1-Nov-00	<2	<2	<2	<2	<2	<2	<2	1.4	27.1	<2	7.78	1,090	420	120	65	<0.01	—	—	<0.005	—	—	—	—
M01-0017	ACW #14	21-Feb-01	<2	<2	<2	<2	<2	<2	<2	2.1	21.7	<2	7.78 H	517	100	100	47	—	—	—	—	—	—	—	—
M01-0144	ACW #14	3-May-01	<2	<2	<2	<2	<2	<2	<2	1.4	22.7	1	7.66	499	89	100	54	—	—	—	—	—	—	—	—
M01-0411	ACW #14	2-Aug-01	<2	<2	<2	<2	<2	<2	<2	1.9	22.8	0.42	7.90	476	70	110	45	—	—	—	—	—	—	—	—
M01-0482	ACW #14	24-Oct-01	<2	<2	<2	<2	<2	<2	<2	1.8	20.0	<2	7.63	449	71	100	46	<0.01	<0.01	<0.005	—	—	—	—	—
M02-0042	ACW #14 R	19-Feb-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.8	22.7	1	7.57 H	427	66	87	46	—	—	—	—	—	—	—	—
2002040220-18	ACW #14	30-Apr-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.39 H	505	74	2.9	57	—	—	—	—	—	—	—	—
1	2002110896-11	ACW #14	25-Sep-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.71 H	482	58	—	60	—	—	—	—	—	—	—	—
2002110896-12	ACW #14 D	4-Nov-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.9	20.0	<0.50	7.78 H	670	76	150	0.012	0.041	0.22	<0.005	46	—	—	—	
2003030318/T4066-3	ACW #14	26-Mar-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	20.0	<0.50	7.65 H	550	73	150	0.27	0.011	0.27	<0.005	46	—	—	—	
2003050551-6	ACW #14	20-May-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.6 H	570	67.0	—	55,600	—	—	—	—	—	—	—	
ACW #14D	ACW #14	20-May-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	8.0 H	534	71.0	—	53,500	—	—	—	—	—	—	—	
2003080979-6	ACW #14	20-Aug-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.9	20.0	<0.50	7.78 H	670	76	150	0.012	0.011	0.27	<0.005	46	—	—	—	
2003080979-7	ACW #14D	20-Aug-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.8	20.0	<0.50	7.65 H	550	73	150	0.27	0.011	0.27	<0.005	46	—	—	—	
2003101363-14	ACW #14	5-Nov-03	1.8 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.550	67.1	—	18.2	—	—	—	—	—	—	—	—	
2004020197-7	ACW #14	26-Feb-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.512	52.0	—	18.3	—	—	—	—	—	—	—	—	
2004020197-8	ACW #14D	26-Feb-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	500	51.0	—	53,000	—	—	—	—	—	—	—	—	
2004050647-5	ACW #14	12-May-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.6	490	57.1	—	23.4	—	—	—	—	—	—	—	
2004111601-25	ACW #14	24-Aug-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	7.6	520	54.0	—	23.1	—	—	—	—	—	—	—	
M99-0206	ACW #15	12-Nov-04	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.7	25.0	<1.0	926	6.7	572	55.0	—	17.6	—	—	—	—	—	—	—
M00-0026	ACW #15	22-Oct-99	3.2	5.3	2	4	2	2	2	1.7	25.0	<1.0	8.24	587	180	87	21.2	<2	1.6	0.022	<0.005	0.0039	—	—	—
M00-0027	ACW #15D	23-Feb-00	<2	<2	<2	<2	<2	<2	<2	1.7	25.0	<1.0	665	7.71	402	42	84	16.6	<10	1.4	1.2	—	—	—	—
M00-0095	ACW #15	11-May-00	<5	<5	<10	<10	<10	<10	<10	1.7	25.0	<1.0	654	7.95	431	49	91	18.4	0.34	1.4	0.86	—	—	—	—
M00-0200	ACW #15	8-Aug-00	<2	<2	<4	<4	<4	<4	<4	1.7	25.0	<1.0	605	7.94	340	35	84	25.6	0.25	1.4	0.91	—	—	—	—
M00-0236	ACW #15	2-Nov-00	<5	<5	<10	<10	<10	<10	<10	1.7	25.0	<1.0	1,380	7.8	876	360	100	18.4	<20	1.4	0.93	—	—	—	—
M01-0014	ACW #15	20-Feb-01	<2	<2	<2	<2	<2	<2	<2	1.7	25.0	<1.0	725	7.89 H	423	64	78	21.5	0.33	1.3	1	—	—	—	—
M01-0015	ACW #15D	7-May-01	<2	<2	<2	<2	<2	<2	<2	1.7	25.0	<1.0	629	7.81 H	416	52	84	26.0	0.28	1.3	0.99	—	—	—	—
M01-0160	ACW #15	7-May-01	<2	<2	<2	<2	<2	<2	<2	1.7	25.0	<1.0	628	7.84 H	396	46	80	25.8	0.31	1.3	1	—	—	—	—
M01-0161	ACW #15D	2-Aug-01	<2	<2	<2	<2																			

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Laboratory Sample Number	Sample Date	Sample Description	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium, mg/l	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	
M00-0023	ACW #14	22-Feb-00	—	22	—	—	—	5.4	—	46	—	97	—	—	160	<25	<25	250		
M00-0093	ACW #14	10-May-00	—	19	—	—	—	6.6	—	34	—	110	—	—	170	<25	<25	200		
M00-0195	ACW #14	7-Aug-00	—	18	—	—	—	6.0	—	39	—	95	—	—	170	<25	<25	200		
M00-0230	ACW #14	1-Nov-00	0.27	<0.05	23	0.037	<0.002	—	—	14	<0.1	25	<0.02	300	—	<0.1	<25	<25	260	
M01-0017	ACW #14	21-Feb-01	—	18	—	—	—	—	—	7.2	—	33	—	110	—	—	170	<25	<25	190
M01-0144	ACW #14	3-May-01	—	20	—	—	—	—	—	6.8	—	35	—	100	—	—	160	<25	<25	220
M01-0411	ACW #14	2-Aug-01	—	17	—	—	—	—	—	5.8	—	35	—	89	—	—	160	<25	<25	180
M01-0482	ACW #14	24-Oct-01	0.26	<0.05	16	0.012	<0.002	<0.01	<0.04	6.0	<0.1	34	<0.02	82	0.0085	<0.1	160	<25	<25	190
M02-0042	ACW #14	19-Feb-02	—	16	—	—	—	—	—	5.9	—	9.8	—	82	—	—	170	<25	<25	180
2002040220-18	ACW #14 R	19-Feb-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1	ACW #14	30-Apr-02	—	21	—	—	—	6.3	—	31	—	90	—	—	180	<25	<25	230		
2002110896-11	ACW #14 D	25-Sep-02	—	—	—	—	—	—	—	—	—	81	—	—	180	<20	<20	<20		
2002110896-12	ACW #14 D	4-Nov-02	0.38	—	23	0.018	—	—	—	7.6	—	50	—	97	—	180	180	180	240	
2002030318/T4096-3	ACW #14	26-Mar-03	—	—	—	—	—	—	—	7.7	—	51	—	99	—	180	180	180	240	
2003050551-6	ACW #14	20-May-03	—	20.800	—	—	—	—	—	—	—	—	—	62,200	—	—	—	—	—	
2003050551-7	ACW #14 D	20-May-03	—	20.100	—	—	—	—	—	—	—	—	—	77,800	—	—	186	—	224	
2003080979-6	ACW #14	20-Aug-03	—	20.300	—	—	—	—	—	—	—	—	—	75,600	—	—	195	—	216	
2003080978-7	ACW #14 D	20-Aug-03	—	20.300	—	—	—	—	—	—	—	—	—	88,400	—	—	197	—	216	
2003101363-14	ACW #14	5-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	88,900	—	—	188	—	
2004020197-7	ACW #14	26-Feb-04	—	—	—	—	—	—	—	—	—	—	—	—	87,500	—	—	—	—	
2004020197-8	ACW #14 D	26-Feb-04	—	—	—	—	—	—	—	—	—	—	—	—	89,800	—	—	—	—	
2004050647-5	ACW #14 D	12-May-04	—	—	—	—	—	—	—	—	—	—	—	—	89,100	—	—	—	—	
2004081157-5	ACW #14	24-Aug-04	—	—	—	—	—	—	—	—	—	—	—	—	87,300	—	—	—	—	
2004111601-25	ACW #14	12-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	85,500	—	—	—	—	
M99-0206	ACW #15	23-Oct-99	0.75	<0.005	20	0.051	<0.002	0.040	<0.02	28	—	30	<0.005	130	<0.0005	0.096	130	<25	<25	
M00-0026	ACW #15	23-Feb-00	—	15	—	—	—	—	—	5.7	—	27	—	81	—	—	170	<25	<25	
M00-0027	ACW #15 D	11-May-00	—	14	—	—	—	—	—	5.8	—	24	—	82	—	—	180	<25	<25	
M00-0095	ACW #15	8-Aug-00	—	14	—	—	—	—	—	4.9	—	29	—	76	—	—	170	<25	<25	
M00-0200	ACW #15	7-May-01	—	14	—	—	—	—	—	9.1	—	34	—	77	—	—	170	<25	<25	
M00-0236	ACW #15	2-Nov-00	0.22	<0.05	18	0.026	<0.002	—	—	16	<0.1	27	<0.02	250	—	<0.1	180	<25	<25	
M01-0014	ACW #15	20-Feb-01	—	14	—	—	—	—	—	8.6	—	31	—	100	—	—	160	<25	<25	
M01-0015	ACW #15 D	20-Feb-01	—	13	—	—	—	—	—	7.5	—	31	—	96	—	—	180	<25	<25	
M01-0180	ACW #15	7-May-01	—	14	—	—	—	—	—	5.8	—	32	—	80	—	—	180	<25	<25	
M01-0161	ACW #15 D	7-May-01	—	14	—	—	—	—	—	6.2	—	32	—	81	—	—	180	<25	<25	
M01-0410	ACW #15	2-Aug-01	—	13	—	—	—	—	—	9.2	—	35	—	76	—	—	170	<25	<25	
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	<25	<25	
M02-0043	ACW #15	19-Feb-02	—	12	—	—	—	—	—	18	—	18	—	74	—	—	170	<25	<25	
M02-0043	ACW #15 R	19-Feb-02	—	—	—	—	—	—	—	—	—	—	—	72	—	—	—	—	—	
M02-0044	ACW #15 D	19-Feb-02	—	15	—	—	—	—	—	—	—	—	—	—	—	—	180	<20	<20	
M02-0044	ACW #15 D R	19-Feb-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	<20	<20	
4	ACW #15	2-May-02	—	15	—	—	—	—	—	5.8	—	33	—	77	—	—	180	<25	<25	
200210896-26	ACW #15	25-Sep-02	—	—	—	—	—	—	—	—	—	—	—	72	—	—	—	—	—	
200210896-27	ACW #15 D	8-Nov-02	0.16	—	—	—	—	—	—	6.1	—	50	—	85	—	—	190	<20	<20	
2002030318/T4112-2	ACW #15	8-Nov-02	0.15	<0.010	—	—	—	—	—	5.9	—	53	—	81	—	—	180	180	180	
2003050551-5	ACW #15	19-May-03	—	16,300	—	—	—</													

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Jail #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

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Jai #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Iron, mg/l	Lead, mg/l	Magnesium, mg/l	Manganese, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium, mg/l	Silica, mg/l	Silver, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as CaCO ₃), mg/l	Alkalinity - Hydroxide, mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Hardness (as CaCO ₃), mg/l
M00-0241	RW #1	3-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	3,200
2004111601-5	RW #1	9-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0239	RW #2	3-Nov-00	0.12	<0.05	190	0.83	<0.0002	—	15	<0.1	39	<0.02	680	—	<0.1	470	470	<25	2,300
M01-0485	RW #2	25-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
200210896-22	RW #2	6-Nov-02	0.45	—	210	0.82	—	—	27	—	58	—	1,400	—	—	490	<2.0	<2.0	2,600
2004111601-16	RW #2	10-Nov-04	—	—	—	—	—	—	—	—	—	—	1,220	—	—	—	—	—	
ENSR #1	ENSR #1	7-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	9-May-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0220	ENSR #1	27-Oct-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0221	ENSR #10	27-Oct-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0141	ENSR #1	2-May-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0470	ENSR #1	23-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0471	ENSR #10	23-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-04	ENSR #1	29-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
200210896-7	ENSR #1	4-Nov-02	4.8	—	58	0.54	—	—	28	—	58	—	1,900	—	610	610	<2.0	<2.0	600
2003101363-13	ENSR #1	4-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004111601-11	ENSR #1	10-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004111601-12	ENSR #10	10-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ENSR #2	ENSR #2	6-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0169	ENSR #2	20-Oct-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0453	ENSR #2	12-May-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0009	ENSR #2	19-Oct-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0183	ENSR #2	11-May-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0080	ENSR #2	19-Oct-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0495	ENSR #2	9-May-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004111601-6	ENSR #2	29-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ENSR #3	ENSR #3	9-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ENSR #3	ENSR #3	7-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ENSR #3	ENSR #3	21-Oct-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0175	ENSR #3	12-May-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0176	ENSR #30	11-May-99	—	—	—	—	—	—	—	—	—	—	—	—	—	7,840	—	—	
S98-0461	ENSR #3	20-Oct-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0190	ENSR #30	7-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0083	ENSR #30	20-Oct-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0006	ENSR #30	9-May-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0007	ENSR #30	11-May-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0189	ENSR #3	20-Oct-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0138	ENSR #30	2-May-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0139	ENSR #30	2-May-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0472	ENSR #3	23-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-05	ENSR #3	29-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-06	ENSR #30	29-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	360	<2.0	<2.0	760
200210896-8	ENSR #3	4-Nov-02	4.0	—	65	0.84	—	—	—	—	—	—	190	—	174	—	—	—	
2003101363-6	ENSR #3	3-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	168	—	—	
2004111601-13	ENSR #3	10-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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S98-0063	Oxy Production Well	24-Feb-98	—	—	18	—	—	4	—	24	—	60	—	—	—	—	—
S98-0186	Oxy Production Well	13-May-98	—	—	20	—	—	5	—	27	—	65	—	—	—	—	150
S98-0299	Oxy Production Well	11-Aug-98	—	—	—	—	—	5.0	—	28	—	67	—	—	—	—	150
S98-0465	Oxy Production Well	20-Oct-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	260
S99-0082	Oxy Production Well	23-Feb-99	—	—	24	—	—	6.2	—	24	—	82	—	—	—	—	160
M99-0025	Oxy Production Well	13-May-99	0.74	—	22	0.015	—	—	5.1	—	32	—	71	—	0.28	150	150
M99-0093	Oxy Production Well	11-Aug-99	—	—	22.0	—	—	—	4.7	—	27	—	72	—	—	140	140
M99-0203	Oxy Production Well	22-Oct-99	2.8	0.0057	21	0.078	<0.0049	<0.002	4.8	—	21	<0.005	73	<0.005	0.50	140	<25
M00-0025	Oxy Production Well	23-Feb-00	—	—	16	—	—	4.1	—	23	—	71	—	—	—	190	190
M00-0097	Oxy Production Well	11-May-00	—	—	21	—	—	—	5.0	—	35	—	72	—	—	150	150
M00-0196	Oxy Production Well	7-Aug-00	—	—	21	—	—	—	5.2	—	48	—	68	—	—	150	150
M00-0235	Oxy Production Well	2-Nov-00	0.93	<0.05	22	0.019	<0.0002	—	—	5.8	<0.1	31	<0.02	71	—	0.32	150
M00-0016	Oxy Production Well	20-Feb-01	—	—	20	—	—	—	—	5.8	—	33	—	68	—	—	140
M01-0165	Oxy Production Well	7-May-01	—	—	20	—	—	—	4.8	—	34	—	65	—	—	160	<25
M01-0408	Oxy Production Well	1-Aug-01	—	—	21	—	—	—	4.3	—	32	—	66	—	—	150	<25
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
5	Oxy Production Well	25-Sep-02	—	—	—	—	—	—	—	—	—	—	—	60	—	—	—
2002110896-18	Oxy Production Well	6-Nov-02	—	—	21	0.086	—	—	5.7	—	40	—	73	—	—	150	<2.0
2003030318/T4096-4	Oxy Supply	26-Mar-03	—	—	—	—	—	—	—	—	—	—	—	52,700	—	—	—
2003050551-4	Oxy Supply	19-May-03	—	—	18,600	—	—	—	—	—	—	—	—	61,400	—	—	148
2003080979-5	Oxy Supply	19-Aug-03	—	—	21,100	—	—	—	—	—	—	—	—	64,200	—	—	173
2003101363-7	Oxy Supply	3-Nov-03	—	—	—	—	—	—	—	—	—	—	—	61,800	—	—	—
2004020197-1	Oxy Supply	25-Feb-04	—	—	—	—	—	—	—	—	—	—	—	69,800	—	—	—
2004050547-6	Oxy Supply	13-May-04	—	—	—	—	—	—	—	—	—	—	—	70,000	—	—	—
2004050647-7	Oxy Supply-D	13-May-04	—	—	—	—	—	—	—	—	—	—	—	66,600	—	—	—
2004081157-6	Oxy Supply	25-Aug-04	—	—	—	—	—	—	—	—	—	—	—	71,800	—	—	—
2004081157-7	Oxy Supply-D	25-Aug-04	—	—	—	—	—	—	—	—	—	—	—	73,300	—	—	—
2004111601-23	Oxy Supply	11-Nov-04	—	—	—	—	—	—	—	—	—	—	—	65,6	—	—	—
Production Well #1	Production Well #1	8-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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2002110896-30	EPNG #1	8-Nov-02	2.8	—	30	0.12	—	—	8.4	—	57	—	91	—	330	330	<2.0
2003101363-27	EPNG #1	7-Nov-03	—	—	—	—	—	—	—	—	—	—	—	80,900	—	—	—
2004111601-30	EPNG #1	12-Nov-04	—	—	—	—	—	—	—	—	—	87.7	—	—	—	—	—
S98-0057	Production Well Doms	24-Feb-98	—	—	16	—	—	—	4	—	25	—	84	—	200	—	—
S98-0180	Production Well Doms	13-May-98	—	—	—	—	—	—	—	—	—	—	—	—	190	190	—
S98-0292	Production Well Doms	10-Aug-98	—	—	17	—	—	—	4.3	—	27	—	71	—	200	200	<25
S98-0464	Production Well Doms	20-Oct-98	0.060	—	17	<0.0025	—	—	4.1	—	29	—	69	—	<0.05	190	<25
S99-0081	Production Well Doms	23-Feb-99	—	—	16	—	—	—	4.1	—	26	—	72	—	—	190	<25
M99-0018	Production Well Doms	13-May-99	0.14	—	17	0.039	—	—	4.0	—	33	—	72	—	0.089	180	<25
M99-0092	Production Well Doms	11-Aug-99	—	—	17	—	—	—	—	—	—	—	73	—	—	190	190
M99-0193	Production Well Doms	21-Oct-99	0.16	<0.001	18	0.0033	<0.0002	0.0048	<0.02	4.7	—	24	<0.005	77	0.0055	0.11	180
M00-0022	Production Well Doms	23-Feb-00	—	—	20	—	—	—	—	4.9	—	12	—	69	—	—	140
M00-0094	Production Well Doms	10-May-00	—	—	15	—	—	—	—	4.2	—	29	—	72	—	—	190
M00-0204	Production Well Doms	14-Aug-00	—	—	16	—	—	—	—	70	—	30	—	4.2	—	180	<25
M00-0233	Production Well Doms	2-Nov-00	0.28	<0.05	18	0.01											

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jail#4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Laboratory Sample Number	Sample Date	Sample Description	Benzene, µg/l	Ethylbenzene, µg/l	m-Xylene, µg/l	p-Xylene, µg/l	Total Xylylene, µg/l	MTEB, µg/l	Solvent Range Organics, mg/l	Specific Conductance, umho/cm	pH, S.U.	Total Dissolved Solids, mg/L	Chloride, mg/l	Bromide, mg/l	pH-Temperature, °C	Sulfate, mg/l	Nitrate-N, mg/l	Nitrate as NO3-, mg/l	Aluminum, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Copper, mg/l		
A01-0010	20-Feb-01	<2	<2	<2	<2	<2	<2	<4	<5	—	61.9	7.75 H	372	33	66	23.0	0.35	0.85	1.1	—	—	46	—	—	
A01-0143	3-May-01	<2	<2	<2	<2	<2	<2	<2	<5	—	61.5	7.75	419	30	74	22.7	0.51	0.91	1	—	—	49	—	—	
A01-0409	1-Aug-01	<2	<2	<2	<2	<2	<2	<2	<5	—	61.8	7.72	374	28	75	22.7	<2	0.92	1.2	—	—	—	44	<0.01	<0.005
A01-0497	29-Oct-01	<2	<2	<2	<2	<2	<2	<6	<6	—	62.2	7.80	396	28	74	22.7	<2	0.96	1.2	<0.05	<0.1	0.037	44	<0.005	<0.005
A02-0050	20-Feb-02	<2.0	19	3.9	—	—	24	—	—	—	62.0	7.68 H	373	31	64	—	0.33	0.92	0.97	—	—	—	45	—	—
A02-0050	20-Feb-02	<2.0 H	<2.0 H	<2.0 H	—	—	<2.0 H	—	—	—	62.0	7.68 H	373	31	64	—	—	—	—	—	—	—	—	—	—
A02-0062-01	27-Mar-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
002040220-29	2-May-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	—	62.4	7.70 H	351	30	74	<1.0	0.92	<1.0	—	—	—	45	—	—	
Production Well Doods	25-Sep-02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<5.0	—	62.6	7.73 H	411	68	—	—	—	—	—	—	—	—	—	—	—
Production Well Doods	5-Nov-02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—	62.0	7.85 H	470	29	86	—	<0.50	1.1	1.0	—	0.010	—	43	—	—
Doom Supply	26-Mar-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	58.5	7.7 H	386	30.0	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	20-May-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	60.2	7.9 H	410	36.0	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	20-Aug-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	56.1	7.14	366	30.8	—	—	—	—	—	—	—	—	—	—	48,000
Doom Supply	6-Nov-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	5.88	6.7	406	28.3	—	—	—	—	—	—	—	—	—	—	43,900
Doom Supply-D	6-Nov-03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	—	—	398	28.5	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	25-Feb-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	58.3	7.6	388	28.0	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	13-May-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	60.9	7.9	396	2.6	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	25-Aug-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	56.7	7.2	390	43.0	—	—	—	—	—	—	—	—	—	—	—
Doom Supply	15-Nov-04	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<6.0	—	60.2	6.9	1.00 (404)	28.0	—	—	—	—	—	—	—	—	—	—	—
PTP #1	7-May-97	38	0.51	22	—	—	8.4	—	—	—	2,420	—	—	1,500	490	—	—	—	—	—	—	—	—	—	—
PTP #1	2-Oct-97	7.9	<0.5	18	—	—	3.1	—	—	—	2,250	—	—	1,400	470	—	—	—	—	—	—	—	—	—	—
PTP #1	12-May-98	62	1.6	21	—	—	13	—	—	—	2,300	—	—	1,400	480	—	—	—	—	—	—	—	—	—	—
PTP #1	20-Oct-98	—	—	—	—	—	—	—	—	—	2,090	—	—	1,410	380	—	—	—	—	—	—	—	—	—	—
PTP #1	11-May-99	—	—	—	—	—	—	—	—	—	2,250	—	—	1,240	330	—	—	—	—	—	—	—	—	—	—
PTP #1	20-Oct-99	—	—	—	—	—	—	—	—	—	2,300	—	—	1,630	460	—	—	—	—	—	—	—	—	—	—
PTP #1	9-May-00	—	—	—	—	—	—	—	—	—	2,210	—	—	1,400	510	—	—	—	—	—	—	—	—	—	—
PTP #1	27-Oct-00	—	—	—	—	—	—	—	—	—	2,050	—	—	1,570	530	—	—	—	—	—	—	—	—	—	—
PTP #1	2-May-01	—	—	—	—	—	—	—	—	—	2,370	—	—	1,240	520	—	—	—	—	—	—	—	—	—	—
PTP #1	23-Oct-01	—	—	—	—	—	—	—	—	—	2,370	—	—	1,280	550	—	—	—	—	—	—	—	—	—	—
PTP #1	29-Apr-02	—	—	—	—	—	—	—	—	—	2,390	—	—	1,400	500	—	—	—	—	—	—	—	—	—	—
PTP #1	4-Nov-02	50	<10	15	24	<10	24	—	—	—	2,000	7.20 H	690	480	3.9	—	2.7	0.97	<0.20 H	—	0.020	—	0.62	—	220
PTP #1	3-Nov-03	21.8	<2.0	13.5	—	—	8.8	—	—	—	2,130	6.8	—	1,380	469	—	—	22.5	—	—	—	—	—	—	—
PTP #1	10-Nov-04	13.6	<1.0	18.7	—	—	9.6	—	—	—	2,300	7.0	1,560	496	—	—	22.1	—	—	—	—	—	—	—	—
Injection Well	9-Nov-04	80.7	14.0	25.6	—	—	25.1	—	—	—	—	—	—	—	—	—	—	—	—	20,300	—	11,300	—	—	—
PTP #1	19-Oct-98	<2	<2	<2	<2	<2	<2	<6	—	—	1,13	5.95	<25	<0.1	<0.1	17.8	<0.2	<0.4	<0.05	—	<0.1	0.49	—	—	<0.0025
Baller Blank	24-Feb-98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2	<2	<2	3	5.7	<20	<0.2	<1	—	<0.2	<0.1	<0.2	<0.05	—	<1	<1	—	<0.0025
Baller Blank Pre Sample	11-May-98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	—	—	9.6	5.8	<20	<0.2	<1	—	<0.2	<0.1	<0.2	<0.05	—	<1	<1	—	<0.0025
Baller Blank Pre Sample	10-Aug-98	2	2	2	2	2	2	<6	—	—	4.45	5.08	30	<0.1	<2.0	18.8	<0.1	<0.10	<1.25	—	<0.25	—	—	<0.0025	<0.0025
Baller Blank-Middle Sample	12-May-98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	—	—	24	5.6	<20	<0.2	<1	—	<0.2	<0.1	<0.05	—	<1	<1	<1	<0.0025	
Baller Blank-Middle Sample	21-Oct-98	<2	<2	<2	<2	<2	<2	<6	—	—	16.9	7.34	<25	<0.1	<0.1	21.0	<0.2	<0.4	<0.05	—	<1	<1	<1	<0.0025	
Baller Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	—	—	1	6.0	<20	<0.2	<1	—	<0.2	<0.1	<0.2	<0.05	—	<1	<1	<1	<0.0025
Baller Blank Post Sample	14-May-98	0.66	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	—	—	15	5.6	<20	<0.2	<1	—	<0.2	<0.1	<0.05	—	<1	<1	<1	<0.0025	
Baller Blank Post Sample	1-Jun-98	1.12	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	—	—	12	5.5	<20	<0.2	<1	—	<0.2	<0.1	<0.05	—	<1	<1	<1	<0.0025	
Baller Blank Post Sample	11-Aug-98	<2	<2	<2	<2	<2	<2	<6	—	—	3.83	5.16	31	<0.1	<2.0	19.9	<0.1	<0.10	<2.5	—	<0.25	—	—	<0.0025	
Baller Blank Post Sample	22-Oct-98	<2	<2	<2	<2	<2	<2	<6	—	—	1.22	5.77	<25	<0.1	<0.1	21.2	<0.2	<0.4	<0.05	—	0.01	—	—	<0.0025	
Baller Blank Before	23-Feb-99	<2	<2	<2	<2	<2	<2	<6	—	—	2.17	5.83	<25	<0.1	<0.1	14.3	<0.2	<0.4	0.09	—	<1	<1	<1	<0.0025	
Baller Blank After Sampling	23-Feb-99	<2	<2	<2	<2	<2	<2	<6	—	—	1.35	5.78	<25	<0.1	<0.1	16.9	<0.2	<0.4	<0.05	—	<1	<1	<1	<0.0025	

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Titanium, mg/l	Lead, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	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 - Hydroxide, mg/l	Alkalinity - Carbonate, mg/l	Hardness (as CaCO ₃), mg/l
M01-0040	Production Well Dooms	20-Feb-01	—	—	15	—	—	4.8	—	35	—	67	—	—	190	<25	<25	180	
M01-0143	Production Well Dooms	3-May-01	—	—	16	—	—	3.8	—	34	—	73	—	—	180	<25	<25	190	
M01-0409	Production Well Dooms	1-Aug-01	—	—	15	—	—	5.0	—	26	—	66	—	—	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	<0.1	<25	170
M02-0050	Production Well Dooms	20-Feb-02	—	—	15	—	—	3.7	—	40	—	65	—	—	190	<25	<25	170	
M02-0050	Production Well Dooms R	20-Feb-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M02-0062-01	Production Well Dooms	27-Mar-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-29	Production Well Dooms	2-May-02	—	—	15	—	—	4.1	—	34	—	65	—	—	180	180	<25	<25	
6	Production Well Dooms	25-Sep-02	—	—	—	—	—	—	—	—	—	63	—	—	—	—	—	—	
2002110896-17	Production Well Dooms	5-Nov-02	0.27	—	15	<0.010	—	4.4	—	53	—	70	—	—	190	<2.0	<2.0	170	
20030318/T4096-5	Doom Supply	26-Mar-03	—	—	—	—	—	—	—	—	—	50,700	—	—	—	—	—	—	
2003050551-8	Doom Supply	20-May-03	—	—	15,800	—	—	—	—	—	—	62,600	—	—	191	—	—	185	
2003080979-8	Doom Supply	20-Aug-03	—	—	14,900	—	—	—	—	—	—	65,500	—	—	213	—	—	171	
2003101363-24	Doom Supply	6-Nov-03	—	—	—	—	—	—	—	—	—	64,800	—	—	—	—	—	—	
2003101363-25	Doom Supply D	6-Nov-03	—	—	—	—	—	—	—	—	—	62,700	—	—	67,100	—	—	—	
200402197-2	Doom Supply	25-Feb-04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2004050647-8	Doom Supply	13-May-04	—	—	—	—	—	—	—	—	—	—	—	—	62,700	—	—	—	
2004081157-8	Doom Supply	25-Aug-04	—	—	—	—	—	—	—	—	—	—	—	—	63,800	—	—	—	
2004111601-33	Doom Supply	15-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	61.8	—	—	—	
PTP #1	PTP #1	7-May-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
PTP #1	PTP #1	21-Oct-97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-0177	PTP #1	12-May-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
S98-00463	PTP #1	20-Oct-98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0008	PTP #1	11-May-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0191	PTP #1	20-Oct-99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0095	PTP #1	9-May-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0223	PTP #1	27-Oct-00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0140	PTP #1	2-May-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0473	PTP #1	23-Oct-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-07	PTP #1	29-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002110896-9	PTP #1	4-Nov-02	10	—	61	0.37	—	6.9	—	26	—	170	—	—	520	<2.0	<2.0	810	
2003101363-5	PTP #1	3-Nov-03	—	—	—	—	—	—	—	—	—	190	—	—	—	—	—	—	
2004111601-15	PTP #1	10-Nov-04	—	—	—	—	—	—	—	—	—	167	—	—	—	—	—	—	
2004111601-10	Injection Well	9-Nov-04	—	—	—	—	—	—	—	—	—	—	—	—	6,010	—	—	—	
S98-0451	Bailer Blank	19-Oct-98	<0.05	—	<0.25	<0.0025	—	<1	—	<0.25	—	1.1	—	<0.05	<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	—	—	—	—	—	—	—	—	<1	—	<0.05	—	<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	7.9	
S98-0061	Bailer Blank Post Sample	24-Feb-98	—	<1	—	—	—	—	—	—	<1	—	—	<5	—	—	—	—	
S98-0191	Bailer Blank Post Sample	14-May-98	—	—	<1	—	—	—	—	—	<1	—	<0.05	—	<5	—	—	—	
S98-0225	Bailer Blank Post Sample	1-Jun-98	—	—	<1	—	—	—	—	—	<1	—	0.16	—	<5	<5	<5	—	
S98-0297	Bailer Blank Post Sample	11-Aug-98	—	<0.25	—	<0.0025	—	—	<10	—	<0.25	—	<0.25	<25	<25	<25	<25	<1	
S98-0478	Bailer Blank Post Sample	22-Oct-98	<0.05	—	<0.25	<0.0025	—	—	—	<25	—	<0.05	<25	<25	<25	<25	<25	<0.5	
S99-0078	Bailer Blank Before	23-Feb-99	—	—	<0.25	—	—	—	—	—	<1	—	0.27	—	<25	<25	<25	<25	
S99-0087	Bailer Blank After Sampling	23-Feb-99	—	—	<0.25	—	—	—	—	—	<1	—	<0.25	—	<25	<25	<25	<25	
M99-0002	Bailer Blank Before Sampling	10-May-99	<0.05	—	<0.25	<0.0025	—	—	<1	—	<0.2	—	<0.25	—	<25	<25	<25	<1	
M99-0016	Bailer Blank Middle	12-May-99	—	—															

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Laboratory Sample Number	Sample Description	Sample Date	Benzene, $\mu\text{g/l}$	Toluene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	o-Xylene, $\mu\text{g/l}$	Total Xylylene, $\mu\text{g/l}$	MTBE, $\mu\text{g/l}$	Gasoline Range Organics, $\mu\text{g/l}$	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Sulfate, mg/l	Chloride, mg/l	Nitrate-N, mg/l	Nitrate as NO_3^- , mg/l	Aluminum, mg/l	Arsenic, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Copper, mg/l	Gallium, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Chromium, mg/l	Copper, mg/l	Gallium, mg/l											
M99-0090	Bailer Blank After Sampling	11-Aug-99	<2	<2	<2	<2	<2	<2	<2	<2	580	8.41	266	48	1.0	21.0	<1	<0.4	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							
M99-0182	Bailer Blank Before Sampling	18-Oct-99	<2	<2	<2	<2	<2	<2	<2	<2	4.00	6.04	<15	0.34	<0.5	20.2	<0.2	<0.4	0.064	—	<0.025	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
M99-0198	Bailer Blank Middle	22-Oct-99	<2	<2	<2	<2	<2	<2	<2	<2	4.00	6.04	<15	0.31	<0.5	20.2	<0.2	<0.4	0.072	—	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
M99-0208	Bailer Blank After Sampling	23-Oct-99	<2	<2	<2	<2	<2	<2	<2	<2	3.75	6.03	<15	0.32	<0.5	22.4	<0.2	<0.4	0.088	—	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
M00-0021	Bailer Blank Before Sampling	22-Feb-00	<2	<2	<2	<2	<2	<2	<2	<2	3	5.88	<15	0.1	<0.1	15.9	<0.2	<0.4	<0.1	<0.1	17.3	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
M00-0030	Bailer Blank After Sampling	23-Feb-00	<2	<2	<2	<2	<2	<2	<2	<2	3	5.88	<15	<0.1	<0.1	21.3	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
M00-0076	Bailer Blank Before Sampling	8-May-00	<5	<5	<5	<5	<5	<5	<5	<5	4	5.52	21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
M00-0091	Bailer Blank Middle of Sampling	10-May-00	—	—	—	—	—	—	—	—	2	—	19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
M00-0102	Bailer Blank After Sampling	12-May-00	<5	<5	<5	<5	<5	<5	<5	<5	10	—	41	6.1	1.4	18.5	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
M00-0194	Bailer Blank Before Sampling	7-Aug-00	<2	<2	<2	<2	<2	<2	<2	<2	4	—	8.0	6.15	<15	0.1	<0.1	25.6	<0.2	<0.4	<0.05	<0.1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
M00-0201	Bailer Blank After Sampling	8-Aug-00	<2	<2	<2	<2	<2	<2	<2	<2	4	—	4.0	5.63	<15	0.1	<0.1	25.8	<0.2	<0.4	<0.05	<0.1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
M00-0214	Bailer Blank Before Sampling	26-Oct-00	<2	<2	<2	<2	<2	<2	<2	<2	—	13	5.22	<15	3.3	<0.1	16.2	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
M00-0229	Bailer Blank Middle of Sampling	1-Nov-00	<2	<2	<2	<2	<2	<2	<2	<2	4	—	11.4	5.09	<15	3.3	<0.1	15.1	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
M00-0245	Bailer Blank After Sampling	6-Nov-00	<2	<2	<2	<2	<2	<2	<2	<2	4	—	13.40	5.3	55	3.3	<0.1	16.9	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
M01-0012	Bailer Blank Before Sampling	20-Feb-01	<2	<2	<2	<2	<2	<2	<2	<2	4	—	1	6.28	H	<15	0.1	<0.1	21.6	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
M01-0018	Bailer Blank After Sampling	21-Feb-01	<2	<2	<2	<2	<2	<2	<2	<2	4	—	2	6.18	H	<15	0.1	<0.1	21.8	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
M01-0131	Bailer Blank Before Sampling	2-May-01	<2	<2	<2	<2	<2	<2	<2	<2	4	—	2	7.69	<15	0.1	<0.1	18.6	<0.2	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
M01-0155	Bailer Blank Middle of Sampling Wells	6-May-01	—	—	—	—	—	—	—	—	—	198	—	115	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
M01-0163	Bailer Blank After Sampling Wells	7-May-01	<2	<2	<2	<2	<2	<2	<2	<2	5	—	578	8.24	H	327	65	<2	25.4	0.17	0.62	—	—	—																	

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	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
M99-3090	Bailer Blank After Sampling	11-Aug-99	—	<0.25	—	—	—	—	—	1.4	—	10	—	140	—	—	—	220	2.6
M99-0182	Bailer Blank Before Sampling	18-Oct-99	0.060	<0.005	<0.25	<0.0025	<0.0002	<0.02	<1	<1	<0.05	<0.005	<0.05	<25	<25	<25	<25	<25	<1
M99-0198	Bailer Blank Middle	22-Oct-99	<0.05	<0.005	<0.25	<0.0025	<0.0002	<0.02	<1	<1	<0.05	<0.005	<0.05	<25	<25	<25	<25	<25	<1
M99-0208	Bailer Blank After Sampling	23-Oct-99	<0.05	<0.005	<0.25	<0.0025	<0.0002	<0.02	<1	<1	<0.05	<0.005	<0.05	<25	<25	<25	<25	<25	<1
M00-0021	Bailer Blank Before Sampling	22-Feb-00	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M00-0030	Bailer Blank After Sampling	23-Feb-00	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M00-0076	Bailer Blank Before Sampling	8-May-00	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<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	<25	<2
M00-0194	Bailer Blank Before Sampling	7-Aug-00	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M00-0201	Bailer Blank After Sampling	8-Aug-00	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<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	—	<25	<25	<25	<25	<2
M00-0229	Bailer Blank Middle of Sampling	1-Nov-00	0.19	<0.05	<0.5	<0.005	<0.0002	—	<2	<0.1	1.1	<0.02	2.3	—	<25	<25	<25	<25	<2
M00-0245	Bailer Blank After Sampling	6-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	<2
M01-0012	Bailer Blank Before Sampling	20-Feb-01	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M01-0018	Bailer Blank After Sampling	21-Feb-01	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M01-0131	Bailer Blank Before Sampling	2-May-01	—	0.49	—	—	—	—	0.52	—	1	—	2.4	—	—	—	—	—	4.3
M01-0155	Bailer Blank Middle of Sampling Wells	6-May-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
M01-0163	Bailer After Sampling Wells	7-May-01	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M01-0404	Bailer Blank Before Sampling	1-Aug-01	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<25	<25	<25	<25	<2
M01-0412	Bailer After Sampling Wells	2-Aug-01	—	<0.5	—	—	—	—	<2	<1	<0.5	—	—	<25	<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	<0.02	<0.5	<0.005	<0.1	<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	<0.02	1.5	<0.005	<0.1	<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	<0.02	1.6	<0.005	<0.1	<25	<25	<25	<2
M02-0041	Bailer Blank Before Sampling Wells R	19-Feb-02	—	<0.50	—	—	—	—	<2.0	—	<0.25	—	1.4	—	—	<25	<25	<25	<20
M02-0049	Bailer Blank After Sampling Wells R	20-Feb-02	—	<0.50	—	—	—	—	<2.0	—	<0.21	—	—	—	—	<25	<25	<25	<20
M02-0049	Bailer Blank After Sampling Wells R	20-Feb-02	—	<0.50	—	—	—	—	<2.0	—	<0.21	—	1.3	—	—	<25	<25	<25	<20
M02-0062-05	Bailer Blank After Sampling 9 Wells	27-Mar-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2002040220-2	Bailer Blank Before Sampling Wells	29-Apr-02	—	<0.50	—	—	—	—	<2.0	—	<1.0	—	3.8	—	—	<25	<25	<25	<20
2002040220-16	Bailer Blank During Sampling Wells	30-Apr-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2202040220-26	Bailer Blank After Sampling Wells	2-May-02	—	<0.50	—	—	—	—	<2.0	—	<1.0	—	1.3	—	—	<25	<25	<25	<20
8	Bailer Blank After Sampling 9 Wells	25-Sep-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2002110896-1	Bailer Blank Before Sampling Wells	3-Nov-02	<0.050	—	<2.0	<0.010	—	—	<2.0	—	<0.21	—	2.0	—	—	<6.0	<2.0	<2.0	<13
2002110896-13	Bailer Blank During Sampling Wells	5-Nov-02	<0.050	—	<2.0	<0.010	—	—	<2.0	—	<0.21	—	2.0	—	—	<6.0	<2.0	<2.0	<13
2002110896-28	Bailer Blank After Sampling Wells	8-Nov-02	<0.050	—	<2.0	<0.010	—	—	<2.0	—	<0.21	—	2.0	—	—	<6.0	<2.0	<2.0	<13
200330318/T4096-2	Bailer Blank	26-Mar-03	—	—	—	—	—	—	—	—	—	—	—	—	—	1.460	—	—	—
2003050551-1	Bailer Blank	19-May-03	—	<0.130	—	—	—	—	—	—	—	—	—	—	—	1.340	—	<1.0	—
2003080979-2	Bailer Blank	19-Aug-03	—	<5.000	—	—	—	—	—	—	—	—	—	—	—	<5.000	—	<1.0	—
2003101363-2	Bailer Blank	3-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	67.500	—	—	—
2003101363-16	Bailer Blank	5-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	<5.000	—	—	—
2003101363-28	Bailer Blank	7-Nov-03	—	—	—	—	—	—	—	—	—	—	—	—	—	<5.000	—	—	—
2004020197-4	Bailer Blank</td																		

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Jail #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Benzene, $\mu\text{g/l}$	Toluene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	p-Xylene, $\mu\text{g/l}$	m-Xylene, $\mu\text{g/l}$	Total Xylylene, $\mu\text{g/l}$	MTBE, $\mu\text{g/l}$	Gaseoline Range Organics, $\mu\text{g/l}$	Specific Conductance, $\mu\text{mho/cm}$	pH, s.u.	Total Dissolved Solids, mg/l	Chloride, mg/l	Nitrate-N, mg/l	Barium, mg/l	Cadmium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	
S98-0477	EMP #3 Post Purge	22-Oct-98	<2	<2	<2	<2	<2	<2	<6	—	662	8.26	424	100	50	20.1	<5	1.6	<0.05	—	45
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	<2	<2	<2	<2	<2	<2	<6	—	631	8.26	369	100	50	17.1	<2	1.6	<0.05	<0.025	—
S98-0179	EMP #3 Pump Blank Middle Sample	12-May-98	30	20	6.5	—	—	—	1.1	—	720	7.9	390	87	57	—	<2	1.7	<0.05	—	50
S98-0468	EMP #3 Pump Blank Middle Sample	21-Oct-98	2	3	2	<2	<2	<2	<6	—	649	8.23	373	110	48	19.8	2.0	1.5	<0.05	—	40
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	—	—	—	<1.0	—	738	8.2	420	98	60	—	0.7	2	<0.2	—	51
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	3.0	3.4	1.4	—	—	—	2.8	—	670	8.1	400	88	57	—	0.63	1.8	0.05	—	48
S98-0224	EMP #3 Pump Blank Post Sample	1-Jun-98	<0.50	<0.50	<0.50	—	—	—	<1.0	—	690	8.0	420	91	53	—	0.64	1.7	<0.05	—	50
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	<2	<2	<2	<2	<2	<2	<6	—	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	<0.50	1.1	0.74	—	—	—	1.1	—	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	6.7	1.7	<0.50	—	—	—	6.0	—	970	7.7	630	98	200	—	<2	1.8	<0.05	—	91
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	<2	<2	<2	<2	<2	<2	<6	—	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	<2	<2	<2	<2	<2	<2	<6	—	1,170	8.44	681	210	42	14.1	<2	1.7	<0.05	—	52
S99-0086	EMP #3 Pump Blank After	23-Feb-99	<2	<2	<2	<2	<2	<2	<6	—	1,610	8.66	981	350	45	13.5	<2	1.8	<0.05	—	51
M98-0003	EMP #3 Before Purging Wells	10-May-99	<2	<2	<2	<2	<2	<2	<6	—	1,120	7.86	646	210	51	22.3	0.6	1.5	<0.05	—	0.22
M99-0015	EMP #3 Middle	12-May-99	—	—	—	—	—	—	—	—	609	—	379	73	—	—	—	—	—	—	—
M99-0028	EMP #3 After Purging	14-May-99	<2	3	<2	<2	<2	<2	<6	—	599	8.27	356	66	53	24.0	0.5	1.8	<0.05	—	44
M99-0084	EMP #3 Pump Blank Before	9-Aug-99	<2	<2	<2	<2	<2	<2	<6	—	578	8.30	49	1.1	20.1	<0.2	<0.4	0.70	—	0.79	
M99-0091	EMP #3 Pump Blank After	11-Aug-99	<2	<2	<2	<2	<2	<2	<6	—	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	14	31	2.0	—	—	—	4.0	—	1,070	7.37	673	140	200	20.7	0.65	1.7	0.29	—	88
M99-0200	EMP #3 Middle	22-Oct-99	2.6	7.7	2.6	—	—	—	4.1	—	624	8.22	397	110	50	19.4	0.60	1.6	<0.05	<0.002	44
M99-0207	EMP #3 After Purging	23-Oct-99	<2	7.4	2.6	—	—	—	4.4	—	640	8.29	367	96	50	21.4	0.58	1.6	<0.05	<0.002	50
M00-0020	EMP #3 Pump Blank Before Purging	22-Feb-00	<2	<2	<2	<2	<2	<2	<6	—	683	6.60	490	86	54	16.6	<1	1.8	<0.5	—	47
M00-0029	EMP #3 After Purging Wells	23-Feb-00	<2	<2	<2	<2	<2	<2	<6	—	681	6.99	460	82	52	17.0	0.63	1.8	<0.5	<0.005	—
M00-0075	EMP #3 Before Purging Wells	8-May-00	<5	<5	<5	<5	<5	<5	<10	—	693	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	<5	<5	<5	<5	<5	<5	<10	—	670	8.22	405	91	52	18.5	0.54	1.6	<0.05	<0.005	—
M00-0193	EMP #3 Before Purging Wells	7-Aug-00	<2	<2	<2	<2	<2	<2	<6	—	552	7.49	369	81	38	25.8	0.29	1.1	<0.05	—	49
M00-0202	EMP #3 Pump Blank After Purging	8-Aug-00	<2	<2	<2	<2	<2	<2	<6	—	600	8.18	317	58	45	25.9	0.50	1.7	0.21	—	30
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	<2	<2	<2	<2	<2	<2	<6	—	3,030	7.11	482	83	51	21.8	0.46	1.7	<1	—	46
M00-0228	EMP #3 Middle of Sampling	1-Nov-00	<2	<2	<2	<2	<2	<2	<6	—	648	—	373	98	—	—	—	—	—	—	—
M00-0244	EMP #3 After Purging Wells	6-Nov-00	<2	<2	<2	<2	<2	<2	<6	—	670	8.22	405	91	52	18.5	0.54	1.6	<0.05	<0.005	—
M01-0039	EMP #3 Before Purging Wells	7-Aug-00	<2	<2	<2	<2	<2	<2	<6	—	552	7.49	369	81	38	25.8	0.29	1.1	<0.05	—	30
M01-0040	EMP #3 Pump Blank Before Sampling	20-Feb-01	<2	<2	<2	<2	<2	<2	<6	—	600	8.18	317	58	45	25.9	0.50	1.7	0.21	—	36
M01-0019	EMP #3 After Purging Wells	21-Feb-01	<2	<2	<2	<2	<2	<2	<6	—	612	4.5	—	—	—	—	—	—	—	—	44
M01-0130	EMP #3 Pump Blank Before Purging Wells	2-May-01	<2	<2	<2	<2	<2	<2	<6	—	656	7.67	321	67	52	21.5	0.48	1.7	<1	<0.05	—
M01-0154	EMP #3 Pump Blank Middle of Purging Wells	6-May-01	—	—	—	—	—	—	—	—	6,080	3,030	240	98	—	—	—	—	—	—	—
M01-0162	EMP #3 After Purging Wells	7-May-01	<2	<2	<2	<2	<2	<2	<6												

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Date	Sample Description	Iron, mg/l	Lead, mg/l	Manganese, mg/l	Nickel, mg/l	Silica, mg/l	Potassium, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Akkalinitiy - Bicarbonatate, mg/l	Akkalinitiy - Carbonatate, mg/l	Akkalinitiy - Hydroxide, mg/l	Hardness (as CaCO ₃), mg/l		
S98-0477	22-Oct-98	EMP #3 Post Purge	0.77	—	13	0.050	—	—	4.0	—	15	—	75	—	<25	<25	
S98-0452	19-Oct-98	EMP #3 Pre Blank	<0.05	—	<0.25	<0.0025	—	—	<1	—	13	—	<0.25	<25	<25	<1	
S98-0179	12-May-98	EMP #3 Pump Blank Middle Sample	—	—	13	—	—	—	4	—	18	—	—	—	—	—	
S98-0468	21-Oct-98	EMP #3 Pump Blank Middle Sample	0.77	—	12	0.047	—	—	4.0	—	14	—	95	—	<0.05	150	
S98-0062	24-Feb-98	EMP #3 Pump Blank Post Sample	—	—	14	—	—	—	4	—	14	—	72	—	—	—	
S98-0192	14-May-98	EMP #3 Pump Blank Post Sample	—	—	12	—	—	—	4	—	17	—	72	—	—	—	
S98-0224	1-Jun-98	EMP #3 Pump Blank Post Sample	—	—	13	—	—	—	4	—	16	—	76	—	—	—	
S98-0298	11-Aug-98	EMP #3 Pump Blank Post Sample	—	—	12	—	—	—	4.1	—	17	—	78	—	—	—	
S98-0065	24-Feb-98	EMP #3 Pump Blank Pre Sample	—	—	14	—	—	—	4	—	13	—	75	—	—	—	
S98-0156	11-May-98	EMP #3 Pump Blank Pre Sample	—	—	23	—	—	—	5	—	13	—	74	—	—	—	
S98-0289	10-Aug-98	EMP #3 Pump Blank Pre Sample	—	—	12	—	—	—	4.2	—	19	—	79	—	—	—	
S99-0079	23-Feb-99	EMP #3 Pump Blank Before	—	—	14	—	—	—	4.2	—	18	—	190	—	—	—	
S99-0086	23-Feb-99	EMP #3 Pump Blank After	—	—	14	—	—	—	4.7	—	18	—	270	—	—	—	
M99-0003	10-May-99	EMP #3 Before Purging Wells	0.45	—	14	0.040	—	—	4.3	—	22	—	170	—	0.15	160	
M99-0015	12-May-99	EMP #3 Middle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M99-0028	14-May-99	EMP #3 After Purging	0.76	—	11	0.054	—	—	4.2	—	19	—	65	—	<0.05	150	
M99-0084	9-Aug-99	EMP #3 Pump Blank Before	—	—	<0.25	—	—	—	<1	—	11	—	140	—	—	2.8	
M99-0091	11-Aug-99	EMP #3 Pump Blank After	—	—	11	—	—	—	3.9	—	18	—	77	—	—	160	
M99-0180	18-Oct-99	EMP #3 Before Purging Wells	<0.005	21	0.051	<0.0002	0.0062	<0.002	5.6	—	25	<0.005	92	<0.005	0.11	96	
M99-0200	22-Oct-99	EMP #3 Middle	0.72	<0.005	12	0.051	<0.0002	0.0069	<0.002	4.3	—	17	<0.005	80	<0.005	0.05	120
M99-0207	23-Oct-99	EMP #3 After Purging	0.89	<0.005	13	0.058	<0.0002	0.0083	<0.002	4.4	—	20	<0.005	80	<0.005	0.05	130
M00-0020	22-Feb-00	EMP #3 Pump Blank Before Purging	—	—	12	—	—	—	5.0	—	19	—	74	—	—	—	
M00-0029	23-Feb-00	EMP #3 After Purging Wells	—	—	12	—	—	—	5.2	—	13	—	76	—	—	—	
M00-0075	8-May-00	EMP #3 Before Purging Wells	—	—	12	—	—	—	4.7	—	25	—	73	—	—	130	
M00-0090	10-May-00	EMP #3 Middle of Sampling	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M00-0103	12-May-00	EMP #3 Pump Blank After Sampling	—	—	13	—	—	—	4.4	—	22	—	72	—	—	150	
M00-0193	7-Aug-00	EMP #3 Before Purging Wells	—	—	9.5	—	—	—	3.1	—	21	—	78	—	—	140	
M00-0022	8-Aug-00	EMP #3 Pump Blank After Purging	—	—	12	—	—	—	4.1	—	21	—	72	—	—	130	
M00-0213	26-Oct-00	EMP #3 Before Purging Wells	2.9	<0.05	20	0.13	<0.0002	0.0002	19	<0.1	26	<0.02	540	<0.1	140	<25	240
M00-0228	1-Nov-00	EMP #3 Middle of Sampling	3.0	<0.05	45	0.29	<0.0002	0.0002	65	<0.1	19	<0.02	800	<0.1	140	<25	480
M00-0244	6-Nov-00	EMP #3 After Purging Wells	1.2	<0.05	27	0.15	<0.0002	0.0002	40	<0.1	23	<0.02	600	<0.1	150	<25	290
M01-0009	20-Feb-01	EMP #3 Pump Blank Before Sampling	—	—	12	—	—	—	11	—	23	—	220	—	—	140	
M01-0019	21-Feb-01	EMP #3 After Purging Wells	—	—	12	—	—	—	9.1	—	22	—	180	—	—	150	
M01-0130	2-May-01	EMP #3 Pump Blank Before Purging Wells	—	—	13	—	—	—	3.2	—	22	—	76	—	—	160	
M01-0154	6-May-01	EMP #3 Middle of Purging Wells	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
M01-0162	7-May-01	EMP #3 After Purging Wells	—	—	11	—	—	—	5.5	—	21	—	93	—	—	150	
M01-0403	1-Aug-01	EMP #3 Before Purging Wells	—	—	9.7	—	—	—	5.3	—	26	—	75	—	—	150	
M01-0413	2-Aug-01	EMP #3 After Purging Wells	—	—	8.3	—	—	—	4.7	—	25	—	59	—	—	130	
M01-0465	22-Oct-01	EMP #3 Pump Blank Before Purging Wells	1.4	<0.05	7.9	0.056	<0.0002	<0.01	4.1	<0.1	25	<0.02	58	<0.005	0.1	130	
M01-0478	24-Oct-01	EMP #3 Middle of Purging Wells	0.64	<0.05	9.8	0.043	<0.0002	<0.01	4.0	<0.1	25	<0.02	61	<0.005	0.1	140	
M01-0492	29-Oct-01	EMP #3 After Purging Wells	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
M02-0040	19-Feb-02	EMP #3 Before Purging Wells	—	—	11	—	—	—	3.4	—	12	—	55	—	—	140	
M02-0048	20-Feb-02	EMP #3 After Purging Wells R	—	—	10	—	—	—	3.3	—	28	—	52	—	—	150	
M02-0048-01	20-Feb-02	EMP #3 After Purging Wells R	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002040220-01	29-Apr-02	EMP #3 Pump Blank Before Purging Wells	—	—	23	—	—	—	4.2	—	31	—	64	—	—	160	
2002040220-15	30-Apr-02	EMP #3 Pump Blank During Purging Wells	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2202040220-25	2-May-02	EMP #3 Pump Blank After Purging Wells	—	—	37	—	—	—	5.2	—	32	—	82	—	—	190	
7	25-Sep-02	EMP #3 Pump Blank After Purging Wells	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2002110896-2	3-Nov-02	EMP #3 Pump Blank Before Purging Wells	1.8	—	33	0.15	—	—	8.3	—	46	—	86	—	—	180	
2002110896-14	5-Nov-02	EMP #3 Pump Blank During Purging Wells	1.2	—	33	0.085	—	—	5.8	—	48	—	80	—	—	180	
2002110896-29	8-Nov-02	EMP #3 Pump Blank After Purging Wells	0.88	—	35	0.071	—	—	6.3	—	49	—	89	—			

**Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Table 2 : Summary of Laboratory Analyses of Groundwater Samples
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico

Laboratory Sample Number	Sample Description	Sample Date	Sodium, 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
200303031674096-1	Pump Blank	26-Mar-03	—	—	—	—	—	—	51,800
2003050551-2	Pump Blank	19-May-03	—	28,600	—	—	65,100	—	315
2003080979-1	Pump Blank	19-Aug-03	—	32,200	—	—	74,800	—	202
2003101363-1	Pump Blank	3-Nov-03	—	—	—	—	<5,000	—	347
2003101363-15	Pump Blank	5-Nov-03	—	—	—	—	72,200	—	—
2003101363-29	Pump Blank	7-Nov-03	—	—	—	—	67,500	—	—
2004020197-3	Pump Blank	26-Feb-04	—	—	—	—	73,600	—	—
2004050647-1	Pump Blank	12-May-04	—	—	—	—	69,800	—	—
200408157-1	Pump Blank	24-Aug-04	—	—	—	—	68,800	—	—
2004111601-1	Pump Blank	9-Nov-04	—	—	—	—	69,8	—	—
2004111601-18	Pump Blank	11-Nov-04	—	—	—	—	81,7	—	—
2004111601-32	Pump Blank	12-Nov-04	—	—	—	—	75,3	—	—
S98-0064	Field Blank	24-Feb-98	—	—	<1	<0,05	—	<1	—
S98-0171	Field Blank	12-May-98	—	—	<1	<0,05	—	<1	—
S98-0223	Field Blank	1-Jun-98	—	—	<1	<0,05	—	<1	—
S98-0291	Field Blank	10-Aug-98	<0,25	—	<0,25	<10	—	<25	<25
S98-0480	Field Blank	22-Oct-98	<0,05	—	<0,025	—	<1	<25	<25
S99-0077	Field Blank	23-Feb-99	—	<0,25	—	—	<1	<25	<25
M99-0001	Field Blank	10-May-99	<0,05	<0,25	<0,0025	—	<1	<0,2	<25
M99-0209	Field Blank	23-Oct-99	<0,05	0,0062	<0,25	<0,0025	<0,005	<0,05	<25
M00-0031	Field Blank	23-Feb-00	—	<0,5	—	—	<2	<1	<25
M00-0104	Field Blank	12-May-00	—	<0,5	—	—	<2	<1	<25
M00-0203	Field Blank	8-Aug-00	—	<0,5	—	—	<2	<1	<25
M00-0246	Field Blank	6-Nov-00	<0,1	<0,05	<0,5	<0,005	<0,002	<0,1	<25
M01-0020	Field Blank	21-Feb-01	—	<0,5	—	—	<2	<1	<25
M01-0184	Field Blank	7-May-01	—	<0,5	—	—	<2	<1	<25
M01-0414	Field Blank	2-Aug-01	—	<0,5	—	—	<2	<1	<25
M01-0491	Field Blank	25-Oct-01	<0,1	<0,05	<0,5	<0,005	<0,002	<0,1	<25
M01-0494	Field Blank	29-Oct-01	<0,1	<0,05	<0,5	<0,005	<0,002	<0,1	<25
M02-0045	Field Blank	20-Feb-02	—	<0,50	—	—	<2,0	<1,0	<25
M02-0045	Field Blank R	20-Feb-02	—	—	—	—	—	—	<25
M02-0062-03	Field Blank	27-Mar-02	—	—	—	—	—	—	<25
M02-0062-04	Field Blank w/o HCl	27-Mar-02	—	—	—	—	—	—	<25
2202040220-28	Field Blank	2-May-02	—	<0,50	—	—	<2,0	<1,0	<25
2002110896-31	Field Blank	8-Nov-02	<2,0	<0,0010	—	—	<2,0	<2,0	<2,0
Trip Blank	Trip Blank	7-Nov-03	—	—	—	—	—	—	<13
Trip Blank	Trip Blank	12-May-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	13-May-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	24-Aug-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	25-Aug-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	10-Nov-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	11-Nov-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	12-Nov-04	—	—	—	—	—	—	—
Trip Blank	Trip Blank	15-Nov-04	—	—	—	—	—	—	—

Notes:

1. < : Denotes a sample value of less than the laboratory reporting limit.
2. — : No analysis performed.
3. Jm : Estimated value—possible matrix effect.
4. Jc: This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte.
5. * : Method blank had detectable levels of this compound.
6. 1.2<0.05 : NEI Lab result/Montgomery Watson Lab result.
7. P: Denotes sample was received with a pH greater than 2.
8. H: Sample was analyzed outside the EPA technical holding time.
9. R : Denotes a reanalyzed sample.
10. J (404) : Result in parenthesis is from a re-analysis conducted outside the EPA technical holding time.
11. 1.00 (404) : Result in parenthesis is from a re-analysis conducted outside the EPA technical holding time.

**Table 3 : Summary of 2004 Groundwater Recovery/Disposal Volumes
Jal #4 Plant, El Paso Natural Gas Company, Lea County, New Mexico**

Month	CP-37 thru CP-42 Comb-S (RW1)			CP-37 thru CP-42 Comb-S (RW2)			ENSR #2		
	Meter Readings	Difference (gallons)	Meter Readings	Difference (gallons)	Meter Readings	Difference (gallons)	Meter Readings	Difference (gallons)	
Present	Previous	Present	Previous	Present	Previous	Present	Previous		
2003 Annual Subtotal	501,640	2003 Annual Subtotal	1,598,630	2003 Annual Subtotal	1,629,400				
Jan-04	2,627,850	2,627,850	0	9,425,490	9,425,490	0	4,471,430	4,471,430	
Feb-04	2,627,850	2,627,850	0	9,425,490	9,425,490	0	4,471,430	4,471,430	
Mar-04	2,627,850	2,627,850	0	9,425,490	9,425,490	0	4,471,430	4,471,430	
Apr-04	2,627,850	2,627,850	0	9,425,490	9,425,490	0	4,471,430	4,471,430	
May-04	2,627,850	2,627,850	0	9,425,490	9,425,490	0	4,471,430	4,471,430	
Jun-04	2,630,040	2,627,850	2,190	9,530,200	9,425,490	104,710	4,471,430	4,471,430	
Jul-04	2,776,740	2,630,040	146,700	9,902,950	9,530,200	372,750	4,604,620	4,471,430	
Aug-04	2,988,640	2,776,740	211,900	10,300,050	9,902,950	397,100	4,797,150	4,604,620	
Sep-04	3,201,500	2,988,640	212,860	10,642,800	10,300,050	342,750	5,017,480	4,797,150	
Oct-04	3,438,160	3,201,500	236,660	11,016,180	10,642,800	373,380	5,247,170	5,017,480	
Nov-04	3,655,500	3,438,160	217,340	11,187,290	11,016,180	171,110	5,447,910	5,247,170	
Dec-04	3,869,360	3,655,500	213,860	11,435,560	11,187,290	267,820	5,602,280	5,447,910	
	2004 Annual Subtotal	1,241,510	2004 Annual Subtotal	2,029,620	2004 Annual Subtotal	1,130,850	4,401,980		
							13.5083 acre-ft		
							104,809 barrels		

Notes:

1. Well designations CP-37 through CP-42 combined - S(RW-1) and (RW-2) denote permit file numbers issued by the New Mexico State Engineer's Office on June 24, 1997.
2. During December 2004 the meter located at recovery well RW-2 was inoperative. The volume of water recovered by recovery well RW-2 during this period has been estimated from the total flow of the remediation system and the meter readings from recovery wells RW-1 and ENSR #2.

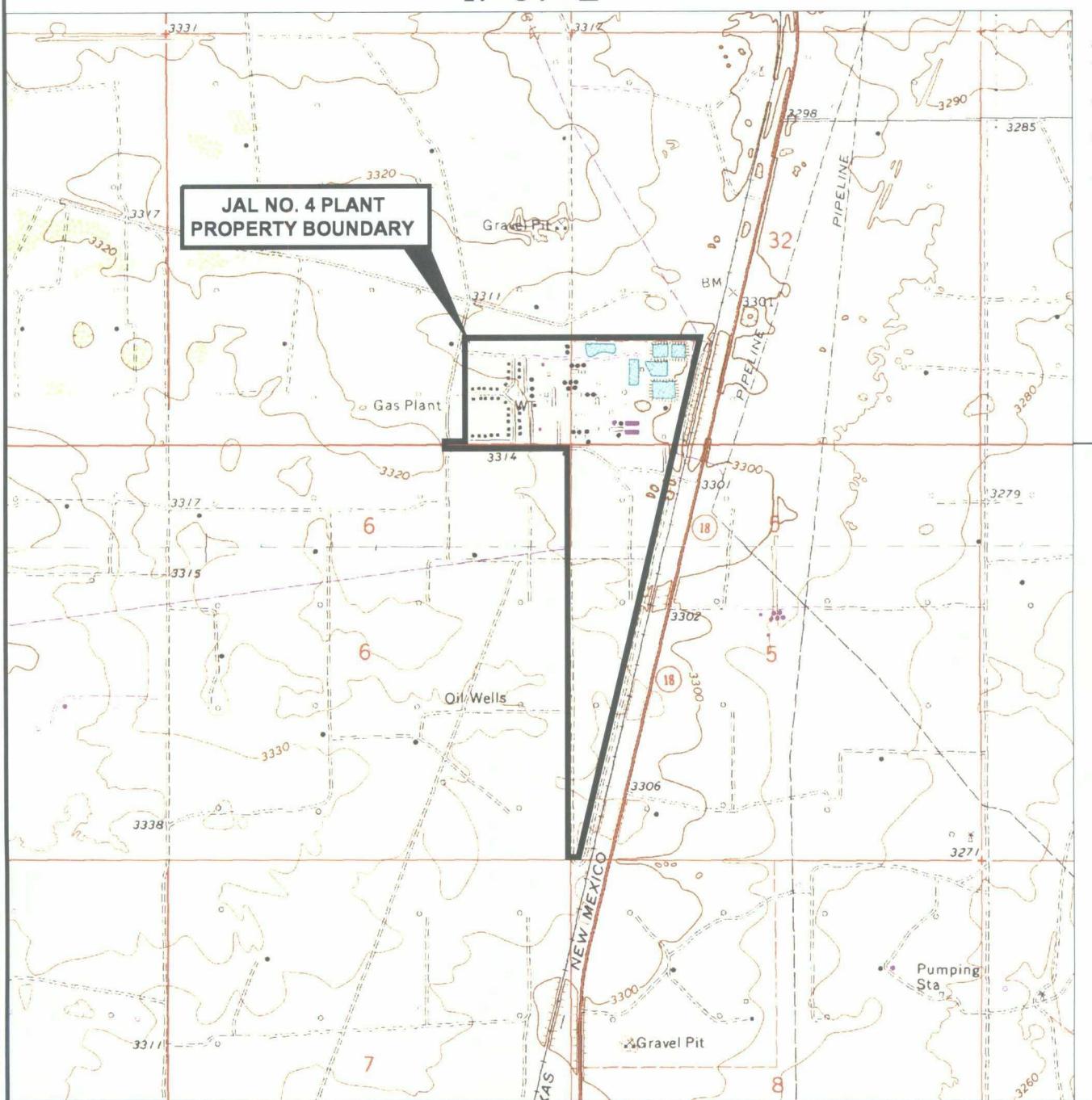
FIGURES

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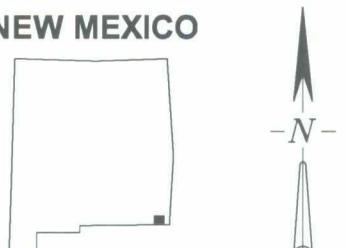
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JAL NO. 4 PLANT
PROPERTY BOUNDARY



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

NEW MEXICO



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One West Third Street, Suite 100
Tulsa, Oklahoma 74103
(918) 492-1600

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FIGURE TITLE

**PLANT LOCATION AND
TOPOGRAPHIC FEATURES**

DOCUMENT TITLE

2004 ANNUAL GROUNDWATER
REMEDIATION REPORT

CLIENT

EL PASO NATURAL GAS COMPANY

LOCATION

JAL #4 PLANT
LEA COUNTY, NEW MEXICO

DATE 2/11/05

SCALE AS SHOWN

DESIGNED BY BEM

APPROVED BY BEM

DRAWN BY SKG

PROJECT NUMBER

4100417106

FIGURE NUMBER

1



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GROUNDWATER POTENTIALMETERIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM - FEBRUARY 25-26, 2004

EL PASO NATURAL GAS COMPANY

2004 ANNUAL GROUNDWATER REMEDIALION REPORT

DOCUMENT TITLE

JAL #4 GAS PLANT

LEA COUNTY, NEW MEXICO

DATE 2/11/05
SCALE 1"=600'
DESIGNED BY BEM
APPROVED BY BEM
DRAWN BY SKG

PROJECT NUMBER
4100417106
FIGURE NUMBER
2

LEGEND

▲ GROUNDWATER MONITOR WELL AND GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM, ON FEBRUARY 25-26, 2004, FEET AMSL
● WATER SUPPLY WELL
■ GROUNDWATER RECOVERY WELL
△ OXY
◆ EPNG-1
○ RW-2
WATER SUPPLY WELL

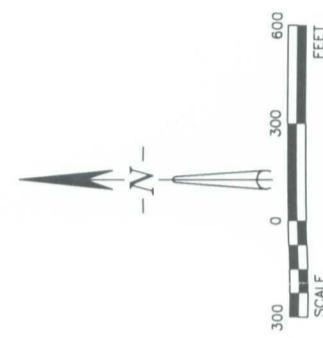
DIRECTION OF GROUNDWATER FLOW
CONTOUR OF GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM ON FEBRUARY 25-26, 2004, FEET AMSL
3190'

PROPERTY BOUNDARY
FENCE
SECONDARY ROAD
RAILROAD TRACK
PIPELINE
IMPOUNDMENT

NM
NOT MEASURED FOR GROUNDWATER ELEVATION

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.

OXY INC. MYERS
LANGUE MATIX UNIT WATER
INJECTION STATION





BENHAM
Infrastructure & environment
The Benham Companies, LLC
One West Third Street, Suite 100
Tulsa, Oklahoma 74103
(918) 492-1600
www.benham.com

LEA COUNTY, NEW MEXICO	JAL #4 GAS PLANT
EL PASO NATURAL GAS COMPANY	CLIENT
2004 ANNUAL GROUNDWATER REMEDIATION REPORT	DOCUMENT TITLE
GROUNDWATER POTENTIALMETRIC SURFACE OF UPPERMOST	FIGURE TITLE

DATE 2/11/05	SCALE 1=60'
DESIGNED BY BEM	APPROVED BY BEM
DRAWN BY SKG	

PROJECT NUMBER	4100417106
FIGURE NUMBER	3

LEGEND





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Tulsa, Oklahoma 74103
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GRONDWATER POTENTIALMERIC SURFACE OF UPPERMOST
GROUNDWATER SYSTEM - AUGUST 24-25, 2004

JAL #4 GAS PLANT
EL PASO NATURAL GAS COMPANY

2004 ANNUAL GROUNDWATER REMEDIATION REPORT

LOCATION

EL PASO NATURAL GAS COMPANY

DATE 2/11/05
SCALE 1=600'
DESIGNED BY BEM
APPROVED BY BEM
DRAWN BY SKG

PROJECT NUMBER
4100417106

FIGURE NUMBER

4

LEGEND

GROUNDWATER MONITOR WELL AND
GROUNDWATER ELEVATION WITHIN
UPPERMOST GROUNDWATER SYSTEM,
FEET AMSL

ACW-5
▲ 3190.87

GROUNDWATER RECOVERY WELL

● **RW-2**

WATER SUPPLY WELL

● **OXY**

WATER SUPPLY WELL

DIRECTION OF GROUNDWATER FLOW
CONTOUR OF GROUNDWATER
ELEVATION WITHIN UPPERMOST
GROUNDWATER SYSTEM ON
AUGUST 24-25, 2004,
FEET AMSL

PROPERTY BOUNDARY

FENCE

SECONDARY ROAD

RAILROAD TRACK

Pipeline

IMPoundment

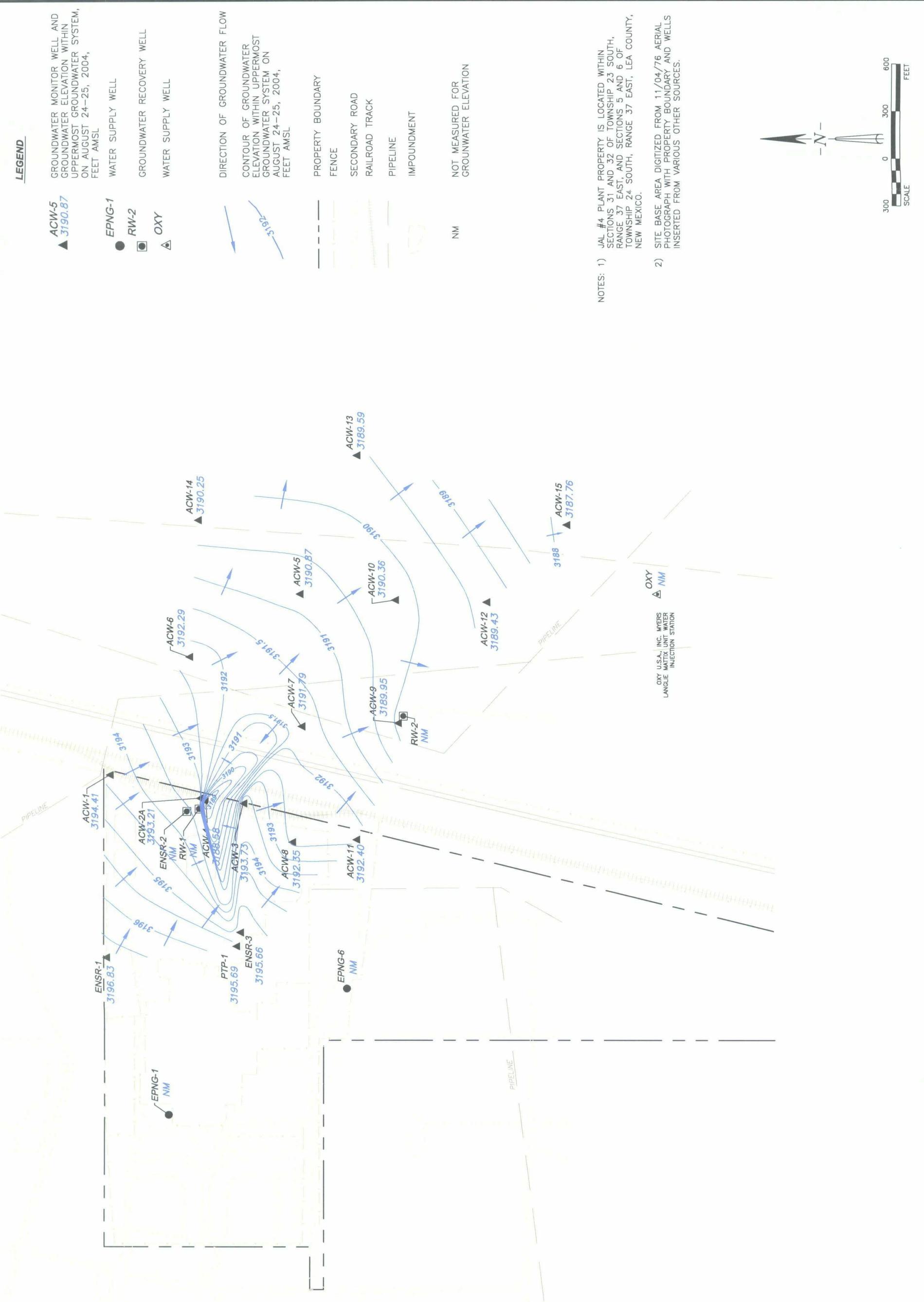
NM
NOT MEASURED FOR
GROUNDWATER ELEVATION

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.

OXY U.S.A., INC. MYERS
LANGLE MATIX UNIT WATER
INJECTION STATION



0 300 600 FEET
SCALE





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LEA COUNTY, NEW MEXICO

JAL #4 GAS PLANT

LOCATION

EL PASO NATURAL GAS COMPANY

CLIENT

2004 ANNUAL GROUNDWATER

REMEDIAL GROUNDWATER

REPORT

GROUNDWATER POTENOMETRIC SURFACE OF UPPERMOST

SYSTEM - NOVEMBER 9-12, 2004

LEGEND

▲ ACW-5
▲ 3190.78
● RW-2
● 3192.00
△ EPNG-1
△ OXY
△ NM

GROUNDWATER MONITOR WELL AND
GROUNDWATER ELEVATION WITHIN
UPPERMOST GROUNDWATER SYSTEM,
FEET AMSL

WATER SUPPLY WELL

GROUNDWATER RECOVERY WELL

WATER SUPPLY WELL

DIRECTION OF GROUNDWATER FLOW
CONTOUR OF GROUNDWATER
ELEVATION WITHIN UPPERMOST
GROUNDWATER SYSTEM ON
NOVEMBER 9-12, 2004,
FEET AMSL

PROPERTY BOUNDARY

FENCE

SECONDARY ROAD

RAILROAD TRACK

Pipeline

IMPoundment

NM
NOT MEASURED FOR
GROUNDWATER ELEVATION

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.

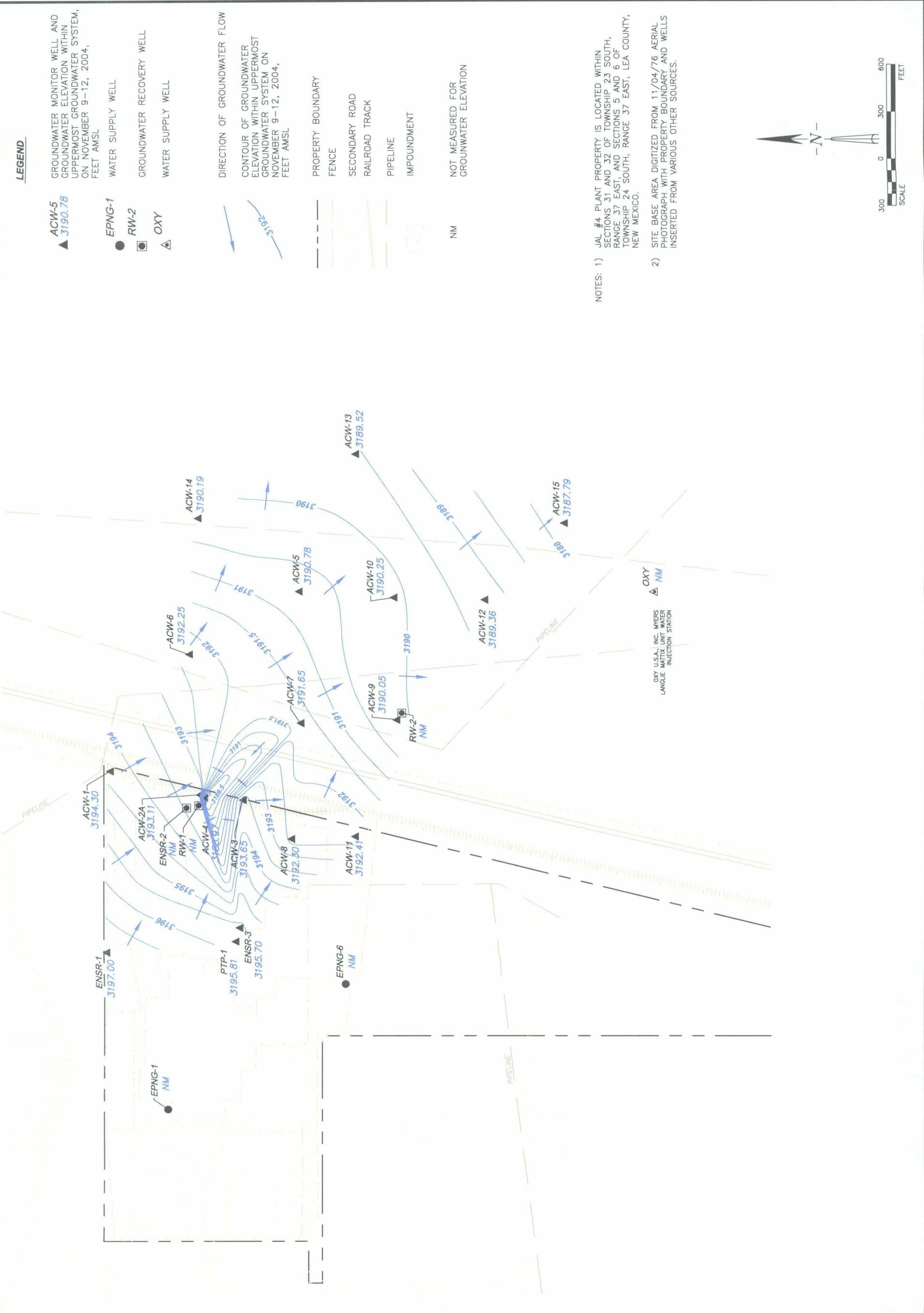
OXY U.S.A., INC. MYERS
LANGUE MATIX UNIT WATER
INJECTION STATION

DATE 2/1/05
SCALE 1=600'
DESIGNED BY BEM
APPROVED BY BEM
DRAWN BY SKG

PROJECT NUMBER
4100417106
FIGURE NUMBER
5



300 0 300 600 FEET





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Tulsa, Oklahoma 74103
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One West Third Street, Suite 100
Tulsa, Oklahoma 74103
(918) 622-1600

www.henham.com

LEGEND

ACW-5

WATER SUPPLY WELL AND CONCENTRATION OF CHLORIDE IN GROUNDWATER, mg/L

WATER SUPPLY WELL AND CONCENTRATION OF CHLORIDE IN

GROUNDWATER RECOVERY WELL
AND CONCENTRATION OF CHLORIDE
IN GROUNDWATER, mg/L

WATER SUPPLY WELL AND
CONCENTRATION OF CHLORIDE IN
GROUNDWATER, mg/L

NOT SAMPLED
CONTOUR LINE SHOWING EQUAL CONCENTRATIONS OF CHLORIDE IN GROUNDWATER, mg/L (DASHED WHERE INFERRRED)

PROPERTY BOUNDARY
FENCE

PRIMARY ROAD OR

SECONDARY ROAL

RAILROAD TRACK

PIPELINE

IMPOUNDMENT

INCENTIVATIONS SIGNAUX AVEC TIR

CONTAMINANTS DETECTED IN GROUNDWATER IN
DURHAM COUNTY DURING THE 2004 MONITORING

ENVIRONMENTAL DIVISION HAS

PROPERTY IS LOCATED WITHIN
CITY OF 250 mg/L FOR CHLORIDE IN
WATER CONTAINING TDS LEVELS OF 10,000
PPM.

FA DIGITIZED FROM 11/04/76 AERIAL
WITH PROPERTY BOUNDARY LINES AND WELLS
FROM VARIOUS OTHER SOURCES.
M

— 1 —

- 1 -

104

A scale bar with markings at 0, 300, and 600 mm. The word "SCALE" is printed vertically below it.

BENHAM
infrastructure & environment

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LOCATION JAL #4 GAS PLANT LEA COUNTY, NEW MEXICO	
CLIENT EL PASO NATURAL GAS COMPANY	
DOCUMENT TITLE 2004 ANNUAL GROUNDWATER REMEDIATION REPORT	
FIGURE TITLE ISOPOTETHY OF CHLORIDE CONCENTRATIONS IN GROUNDWATER IN 2004	

LEGEND

NOTES:

- 1) CHLORIDE CONCENTRATIONS SHOWN ARE THE HIGHEST LEVELS DETECTED IN GROUNDWATER IN EACH WELL DURING THE 2004 MONITORING PROGRAM.
- 2) EPA's SECONDARY DRINKING WATER STANDARD (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 SECTION 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.

**OXY U.S.A., INC. MYERS
LANGUE MATIX UNIT WATER
INJECTION STATION**

PROJECT NUMBER
4100417106

FIGURE NUMBER
6

SCALE
300 0 300 600 FEET



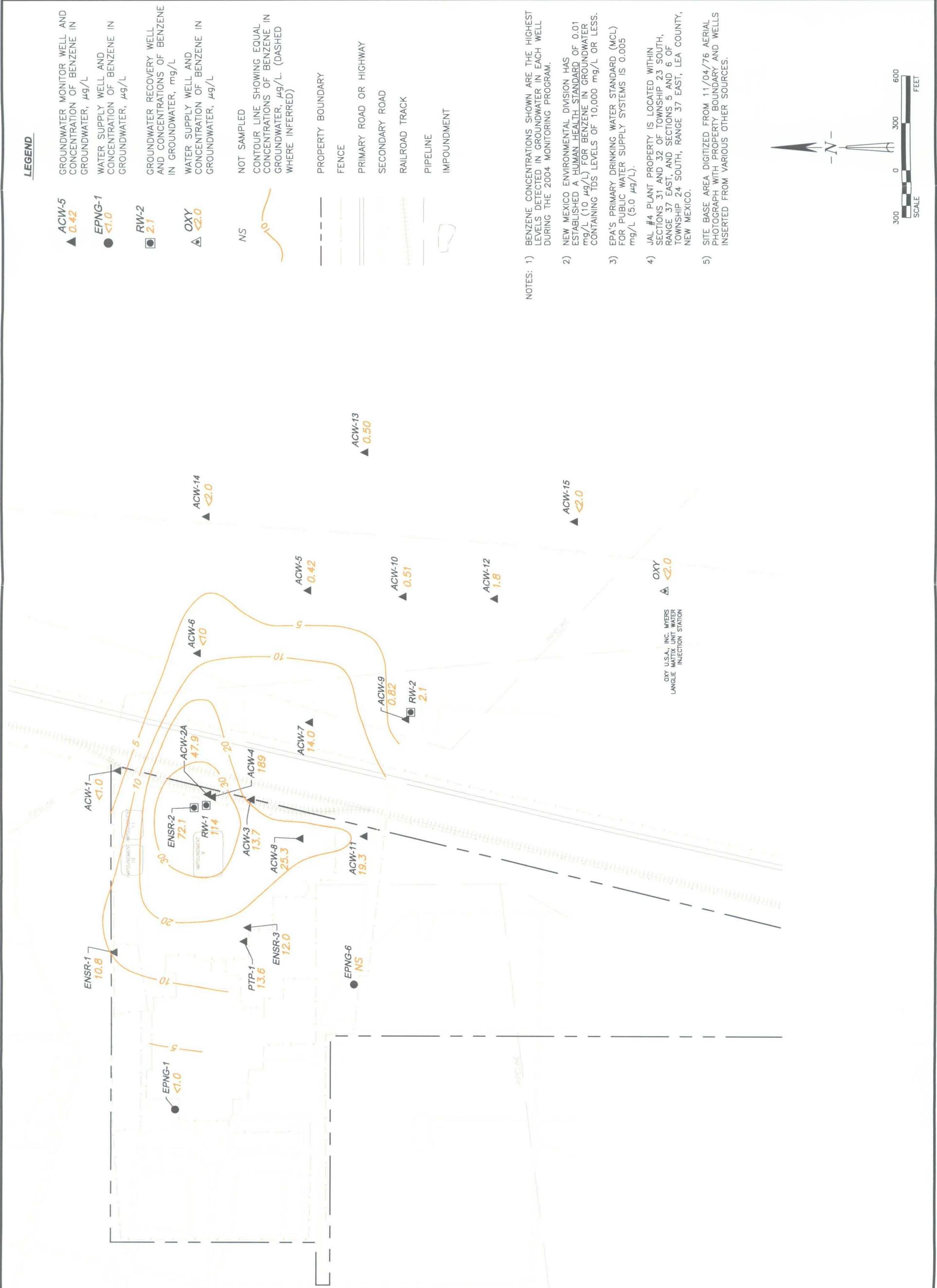
The Benham Companies, LLC
One West Third Street, Suite 100
Tulsa, Oklahoma 74103
(918) 492-1600
www.benham.com

FIGURE TITLE	ISOPLETY OF BENZENE CONCENTRATIONS IN GROUNDWATER IN 2004	DOCUMENT TITLE	2004 ANNUAL GROUNDWATER REMEDIATION REPORT	CLIENT	EL PASO NATURAL GAS COMPANY	LOCATION	JAL #4 GAS PLANT LEA COUNTY, NEW MEXICO
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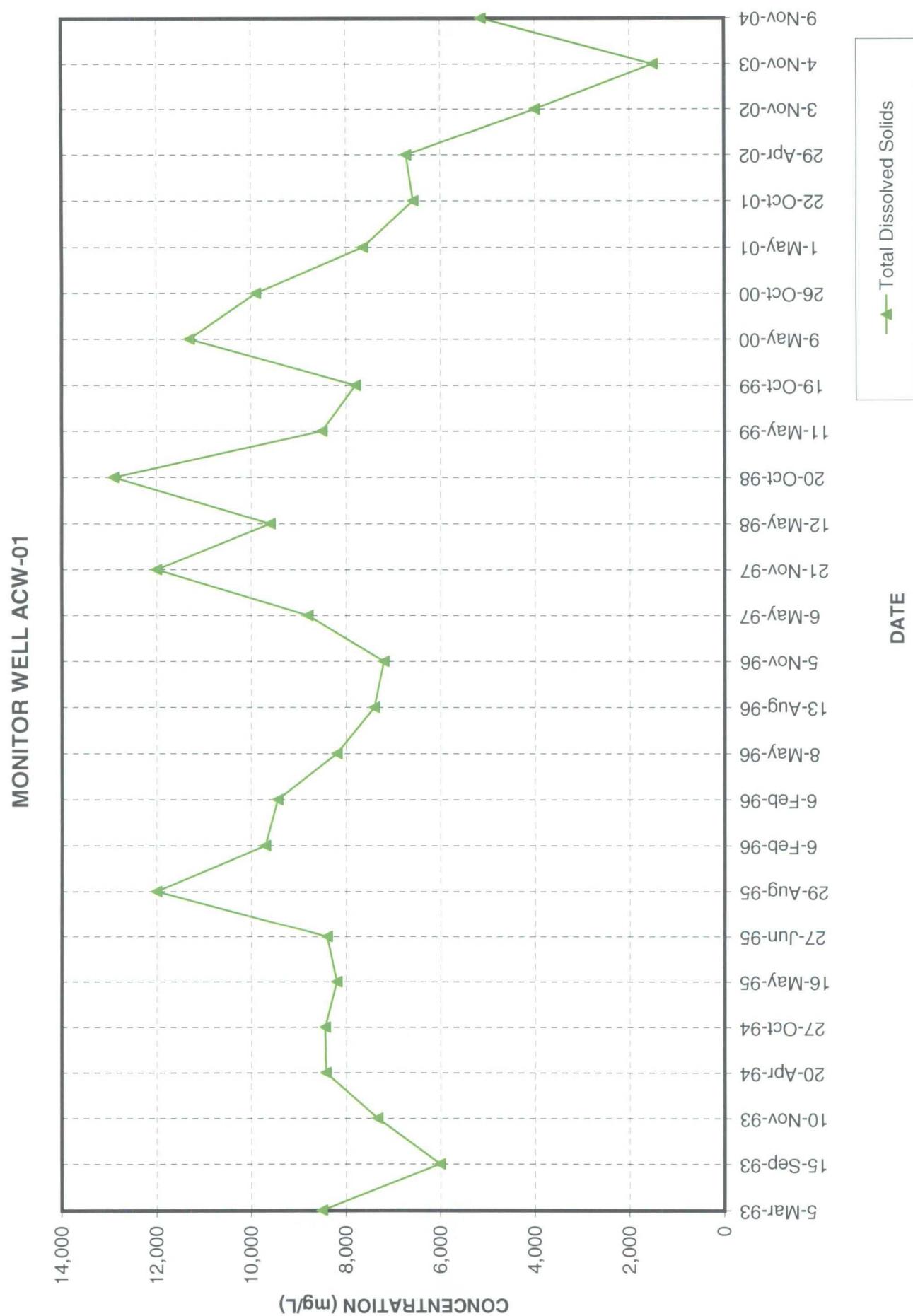
DATE	2/11/05
SCALE	1"=60'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER	4100417106
FIGURE NUMBER	7

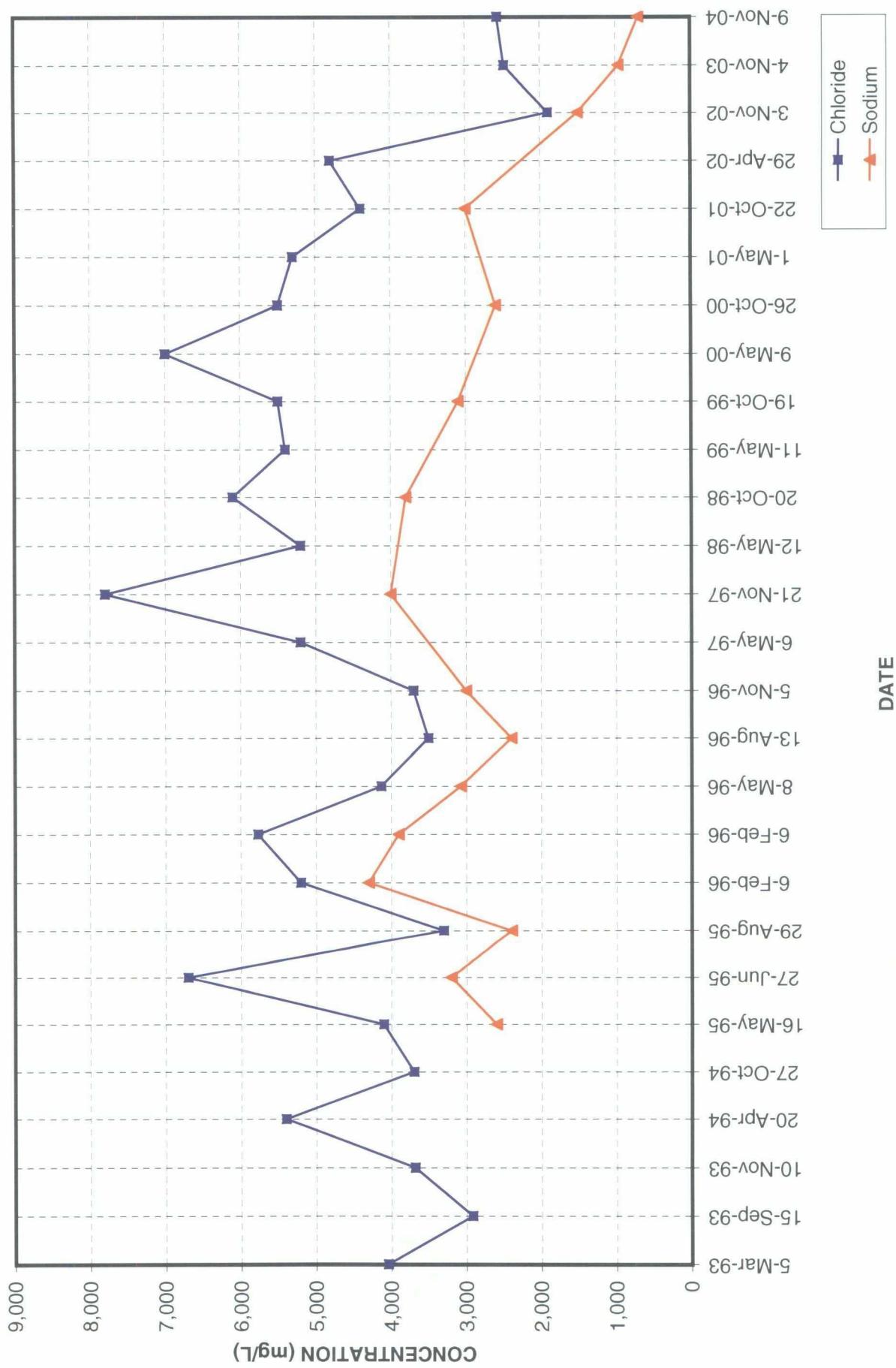
LEGEND



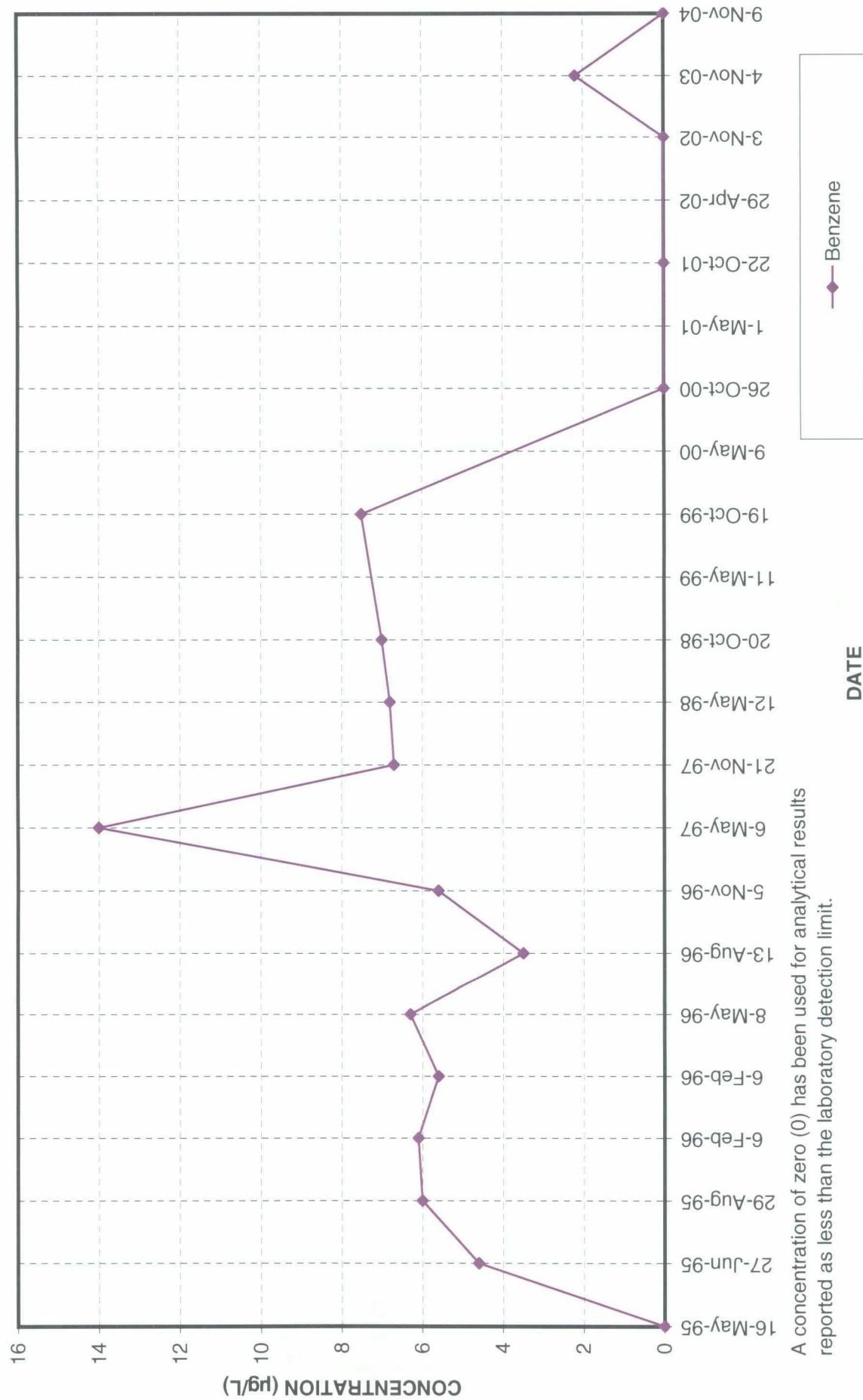
GRAPHS



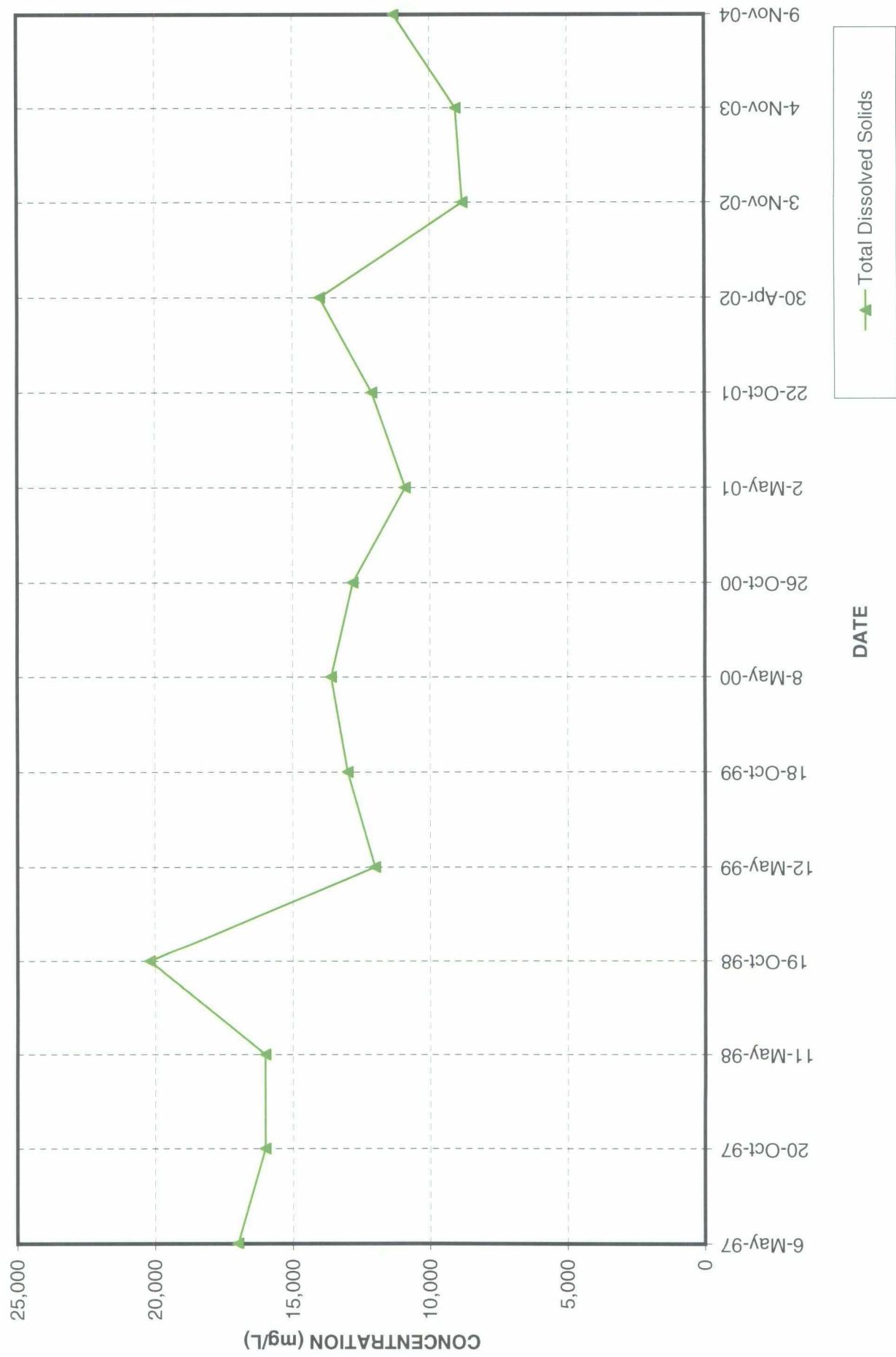
MONITOR WELL ACW-01

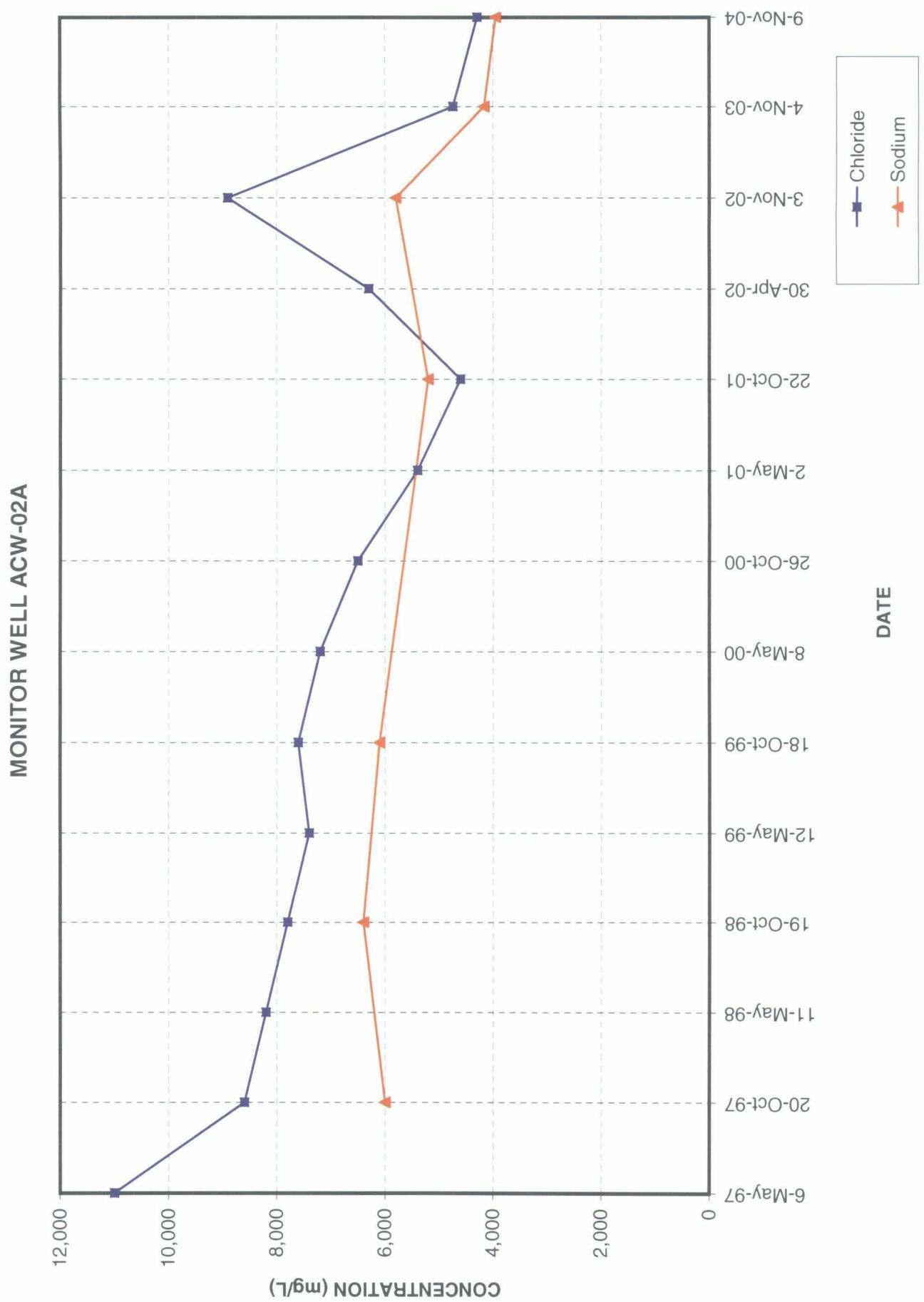


MONITOR WELL ACW-01

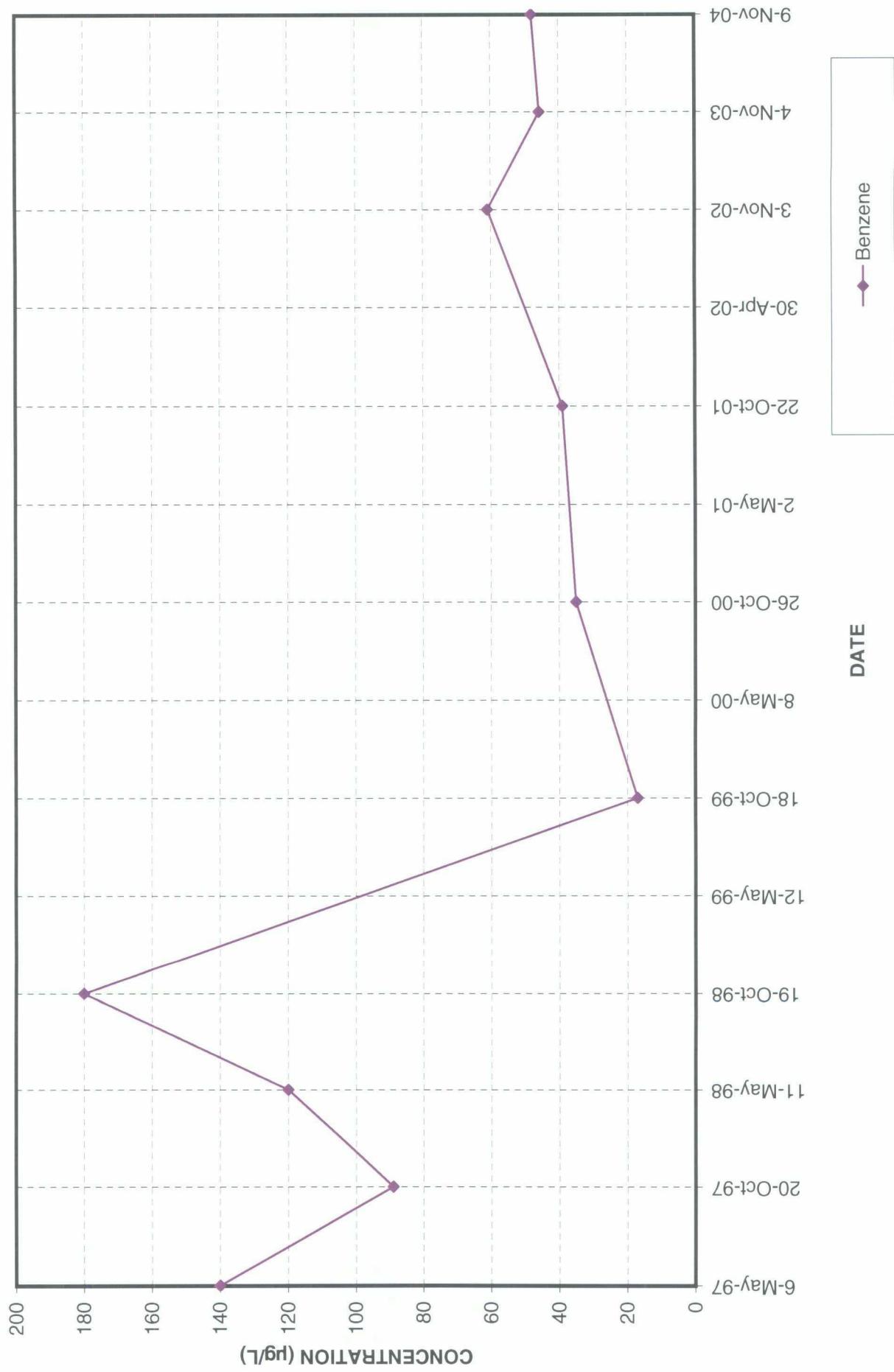


MONITOR WELL ACW-02A

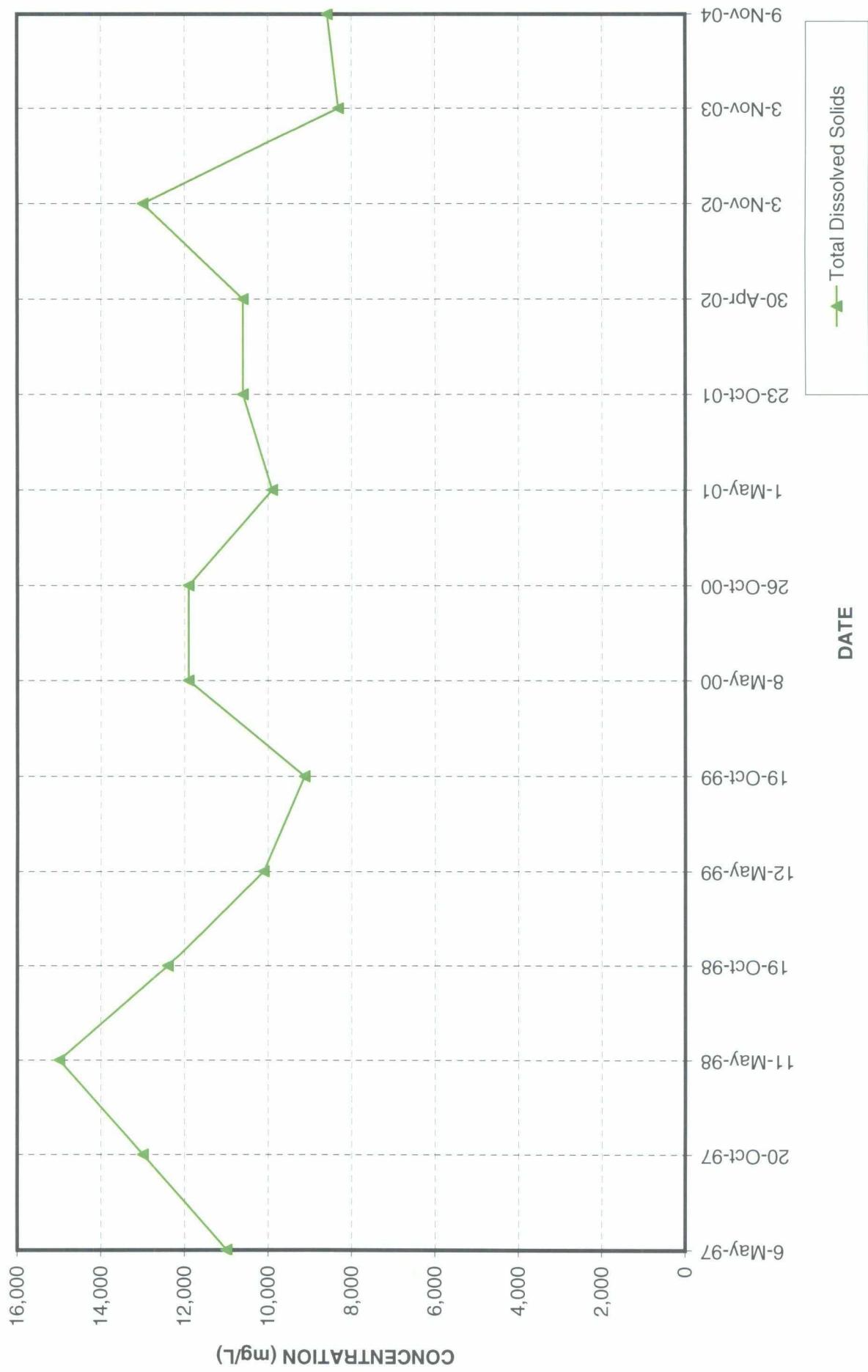




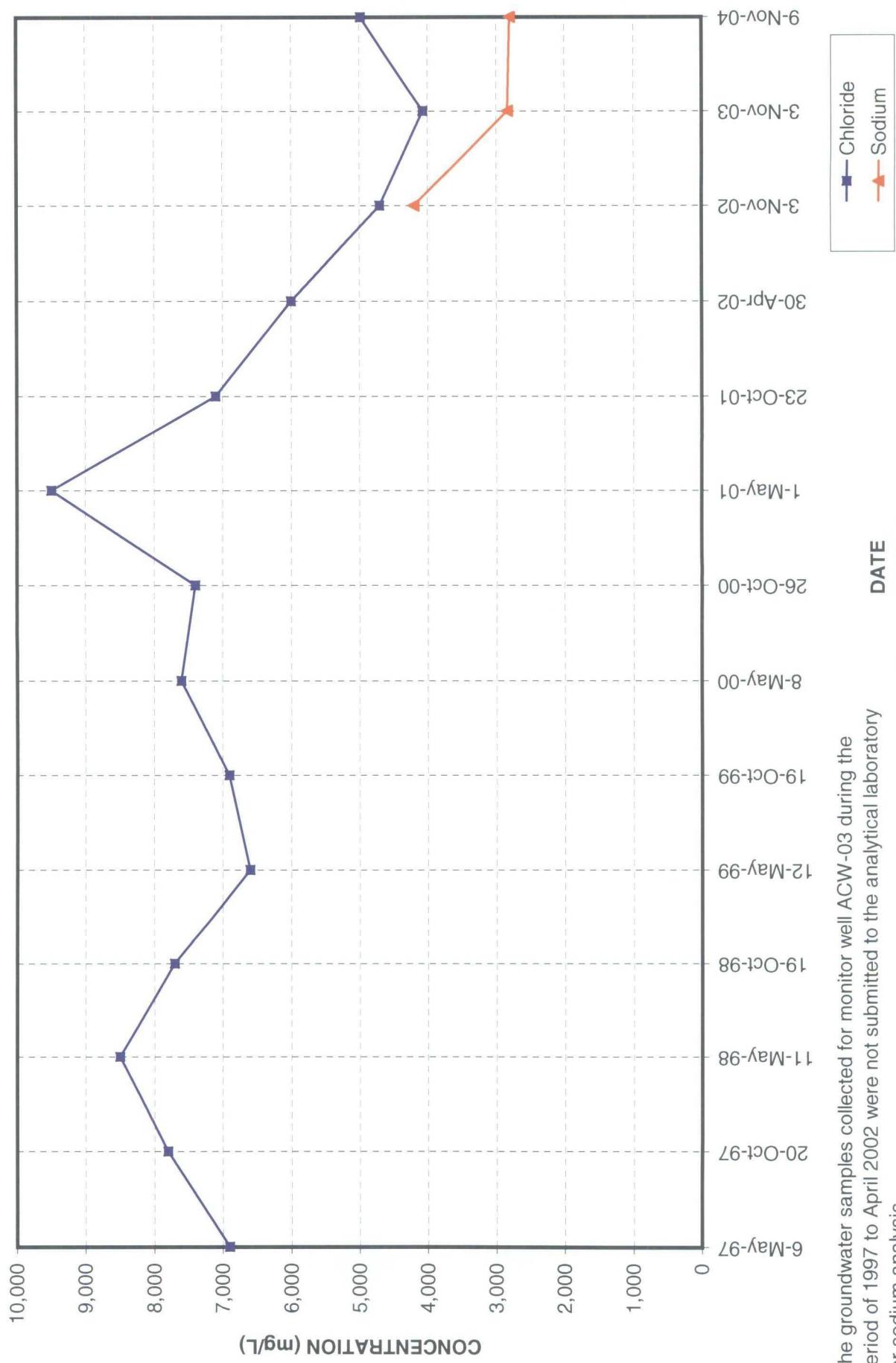
MONITOR WELL ACW-02A



MONITOR WELL ACW-03

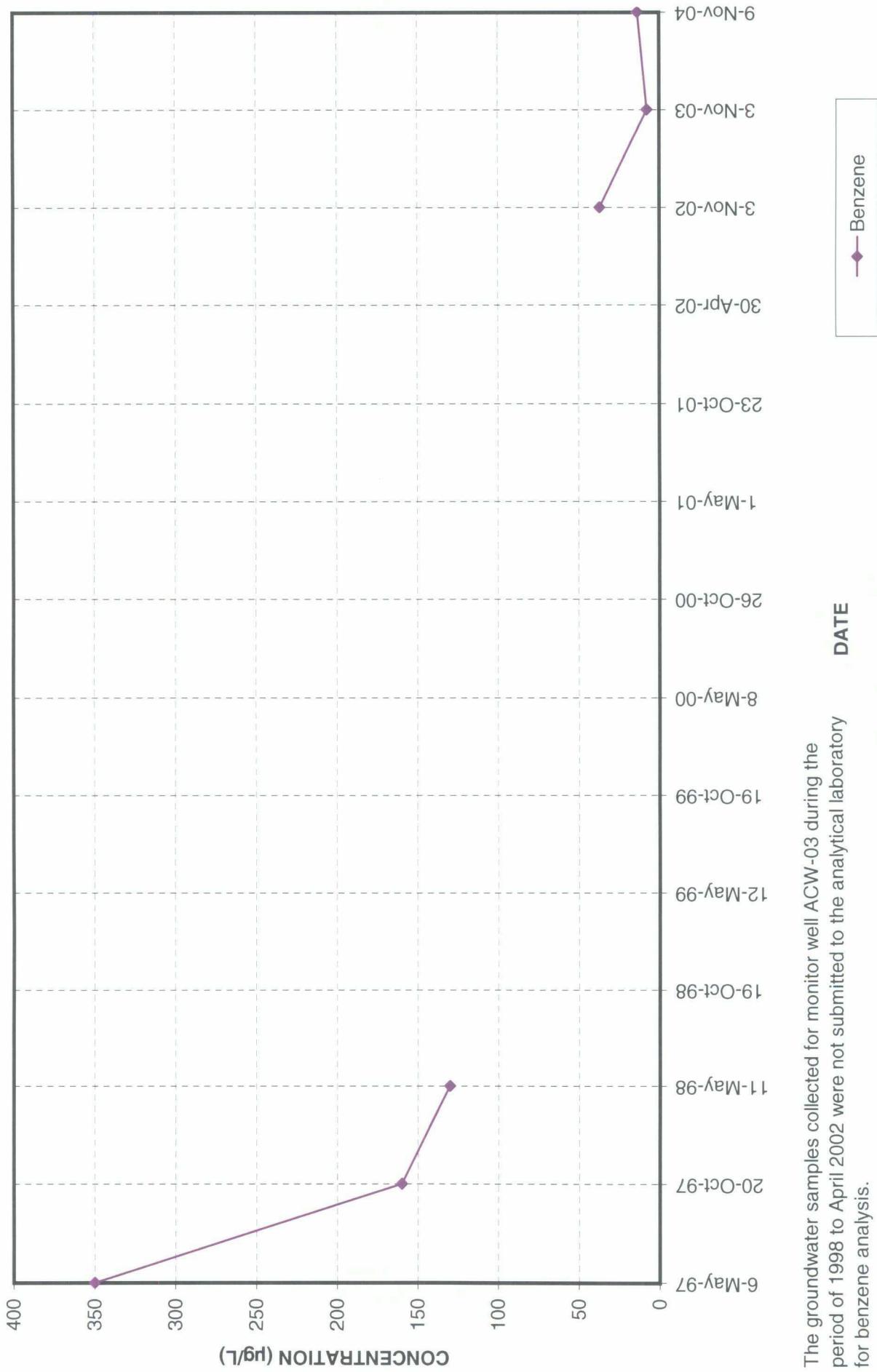


MONITOR WELL ACW-03



The groundwater samples collected for monitor well ACW-03 during the period of 1997 to April 2002 were not submitted to the analytical laboratory for sodium analysis.

MONITOR WELL ACW-03

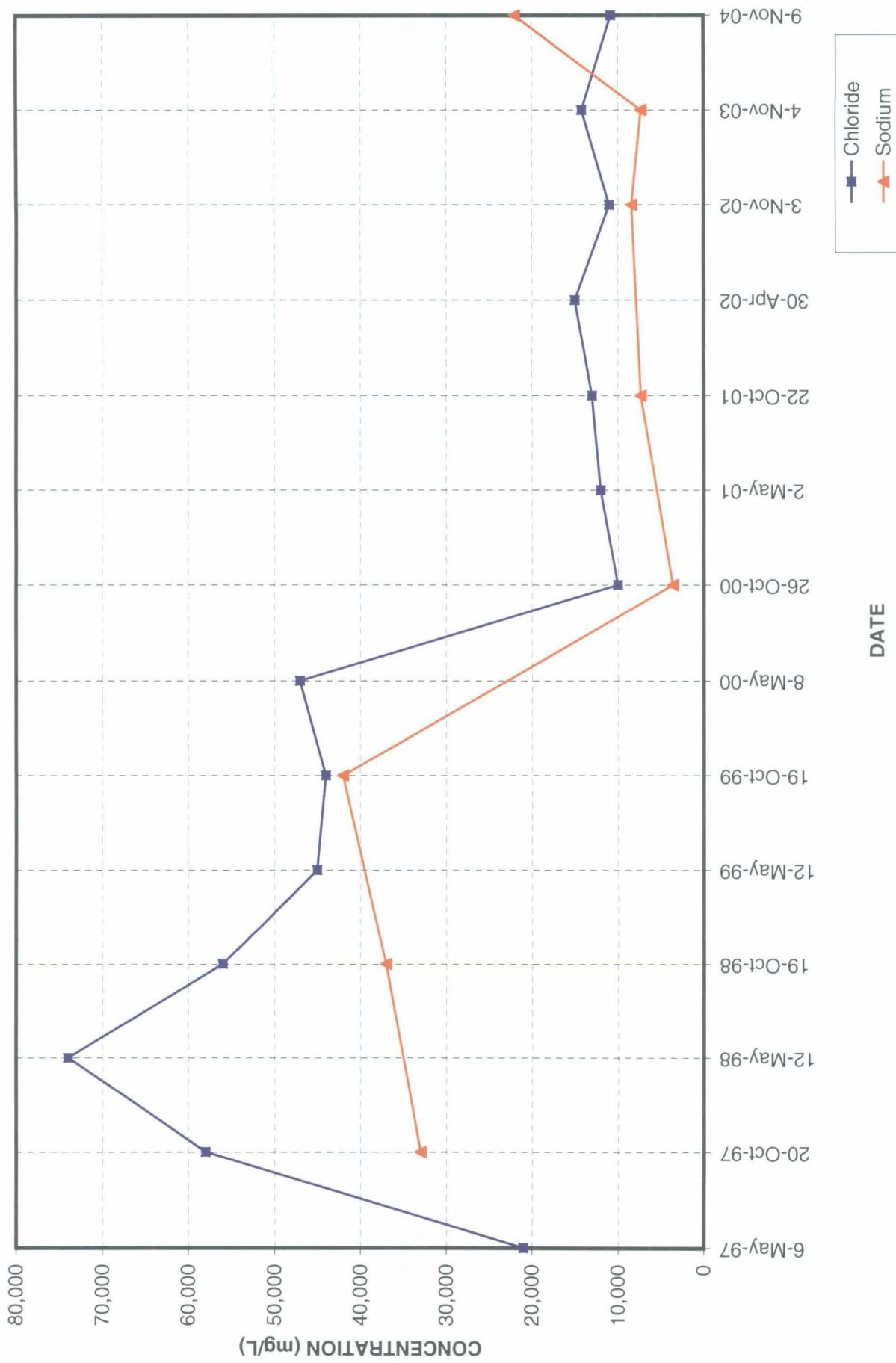


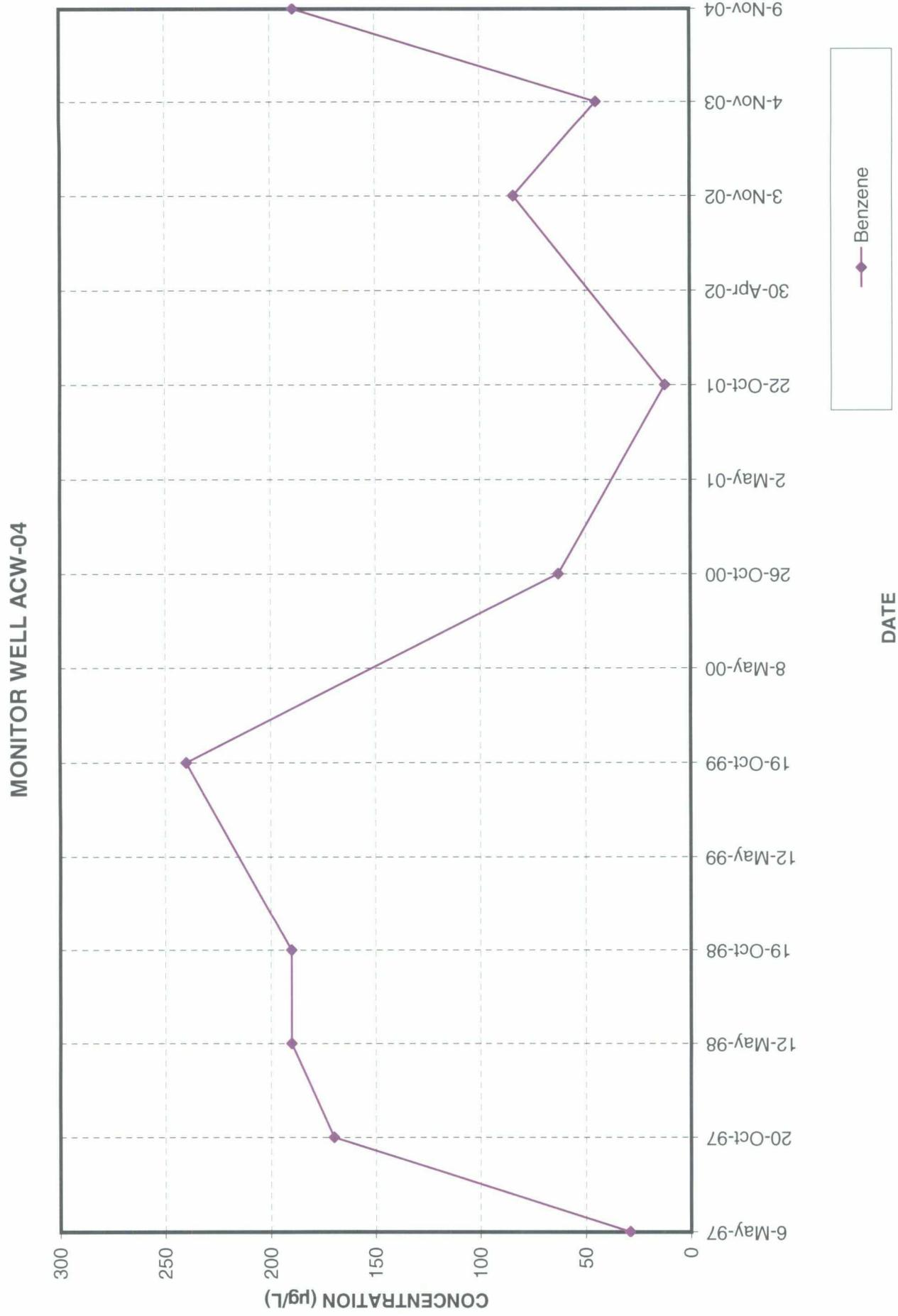
The groundwater samples collected for monitor well ACW-03 during the period of 1998 to April 2002 were not submitted to the analytical laboratory for benzene analysis.

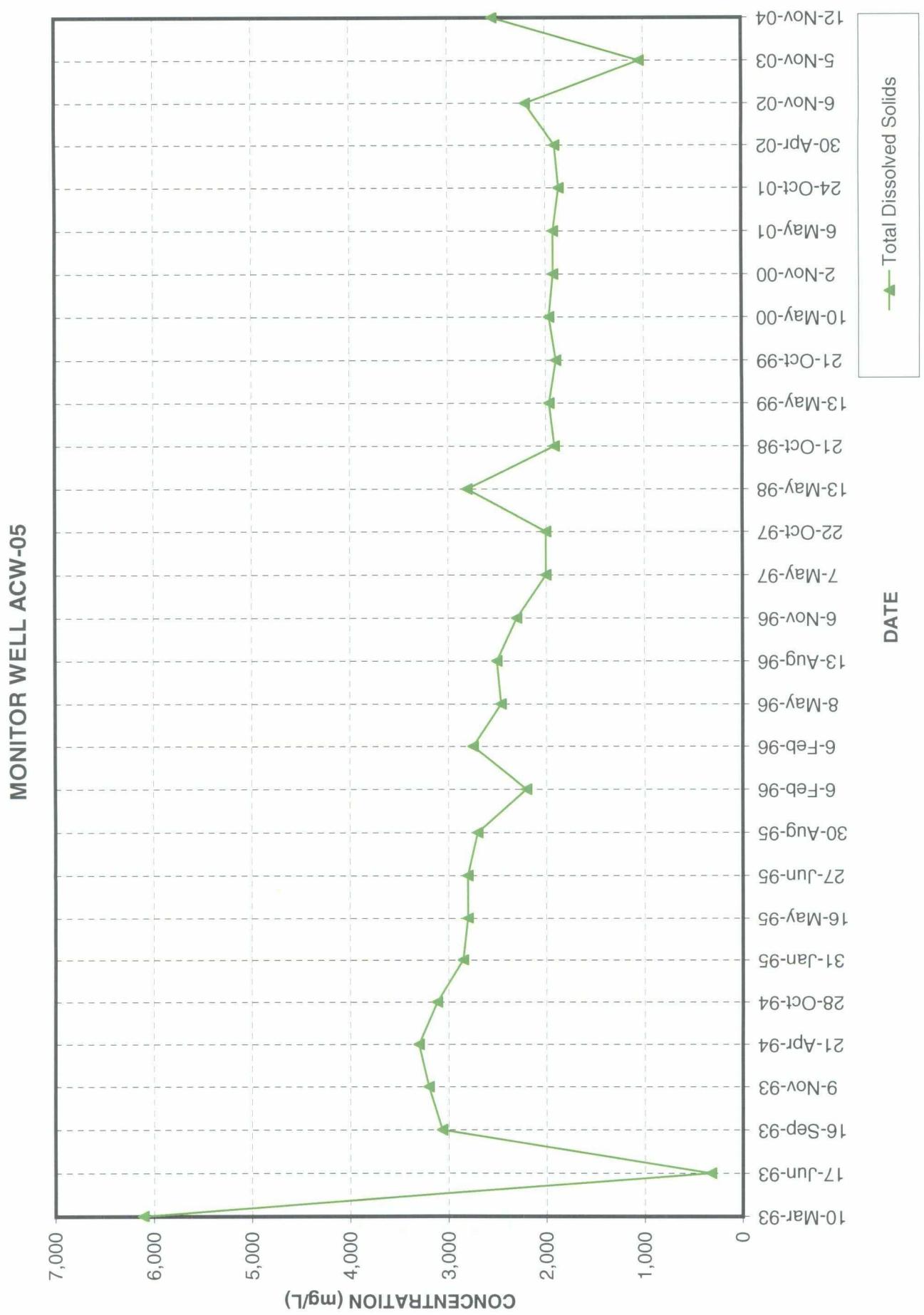
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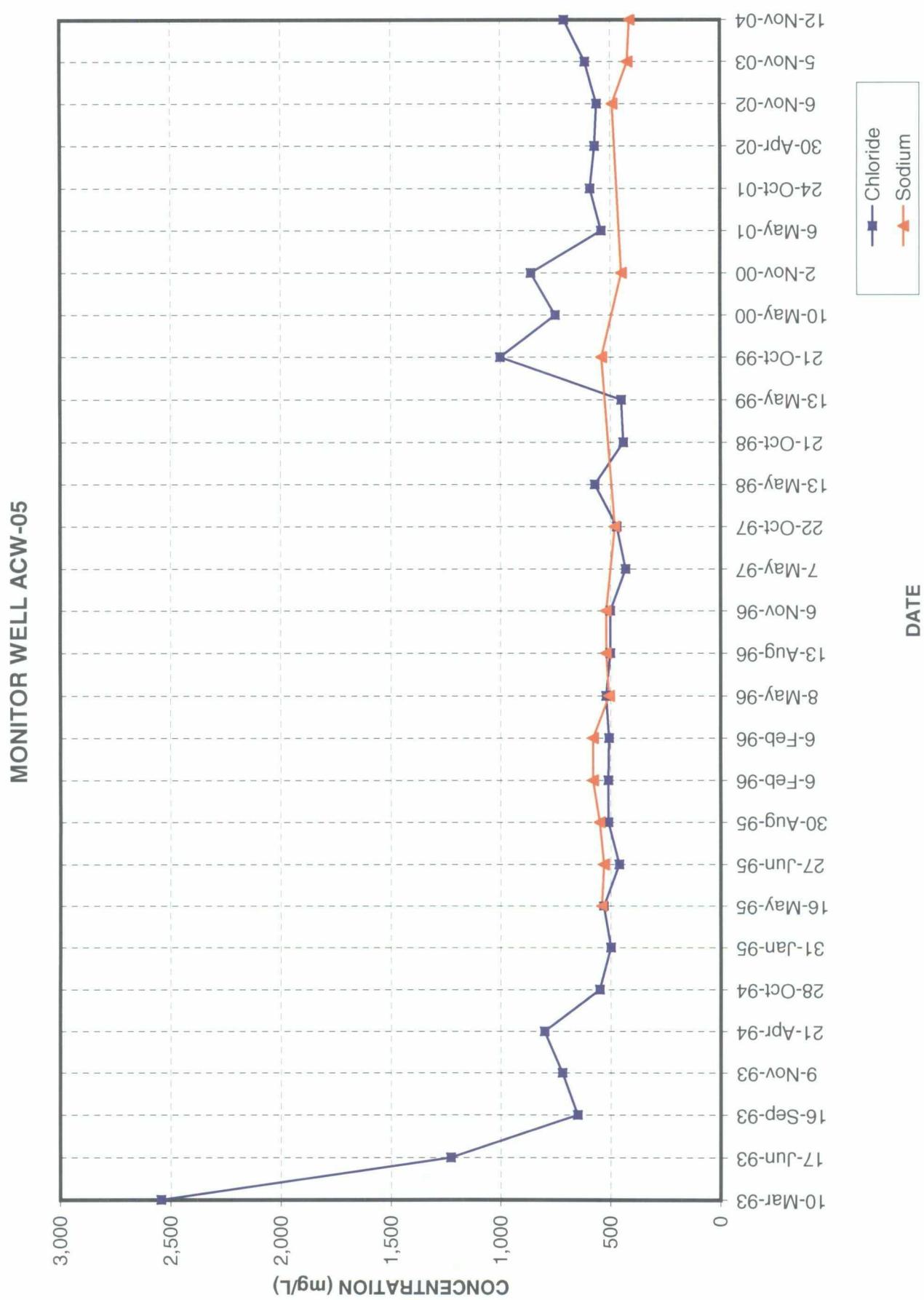


MONITOR WELL ACW-04

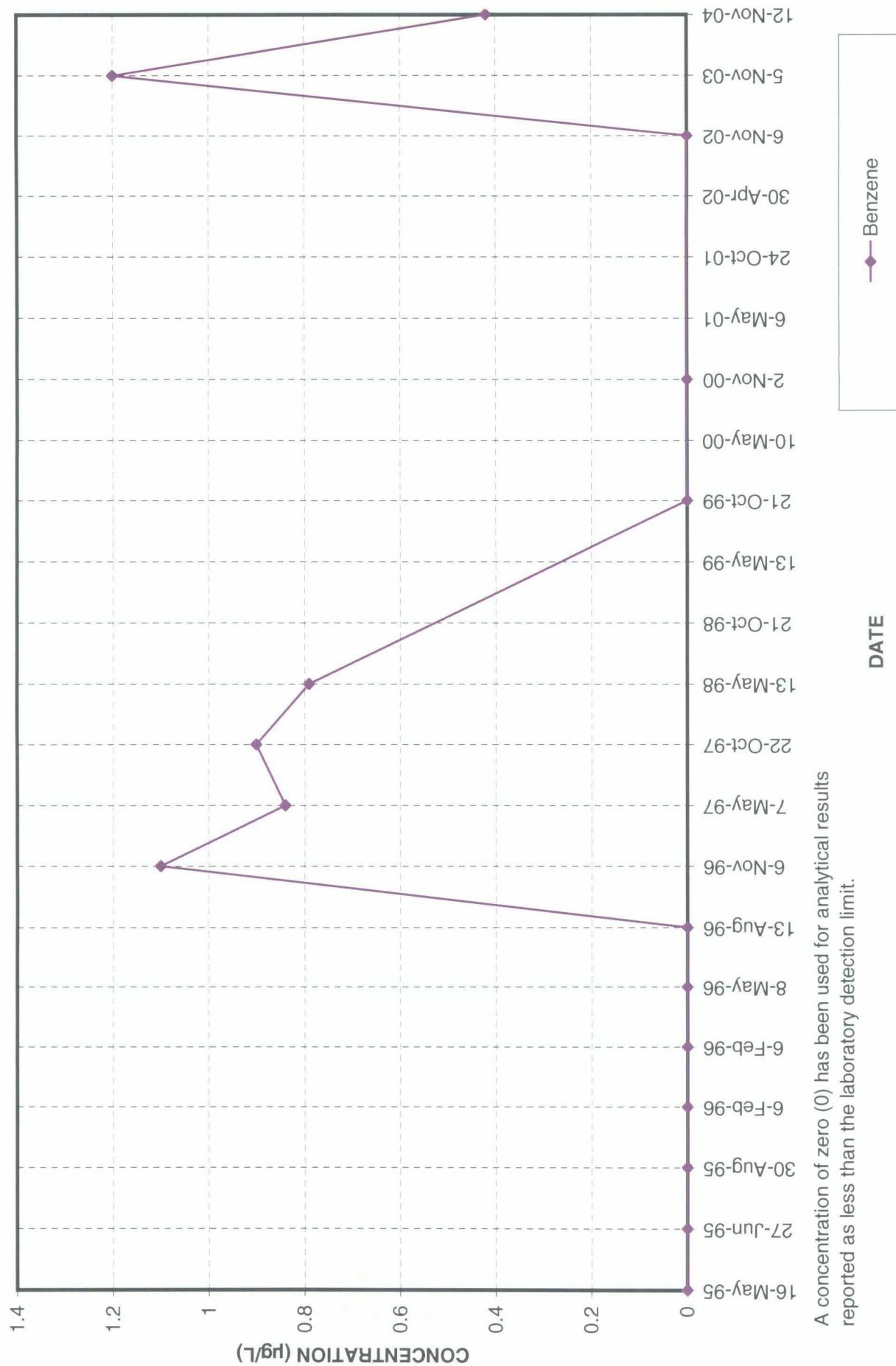




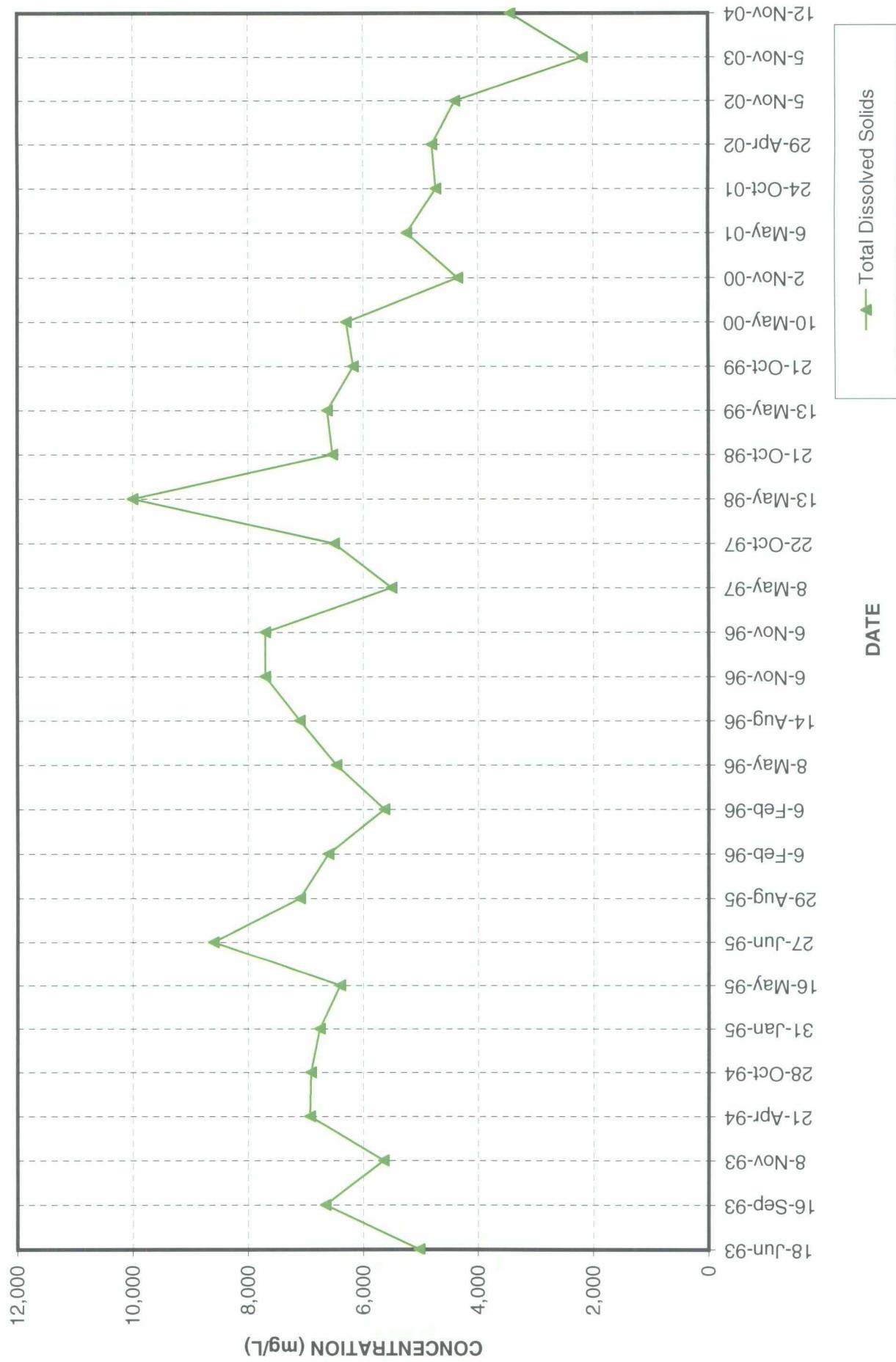


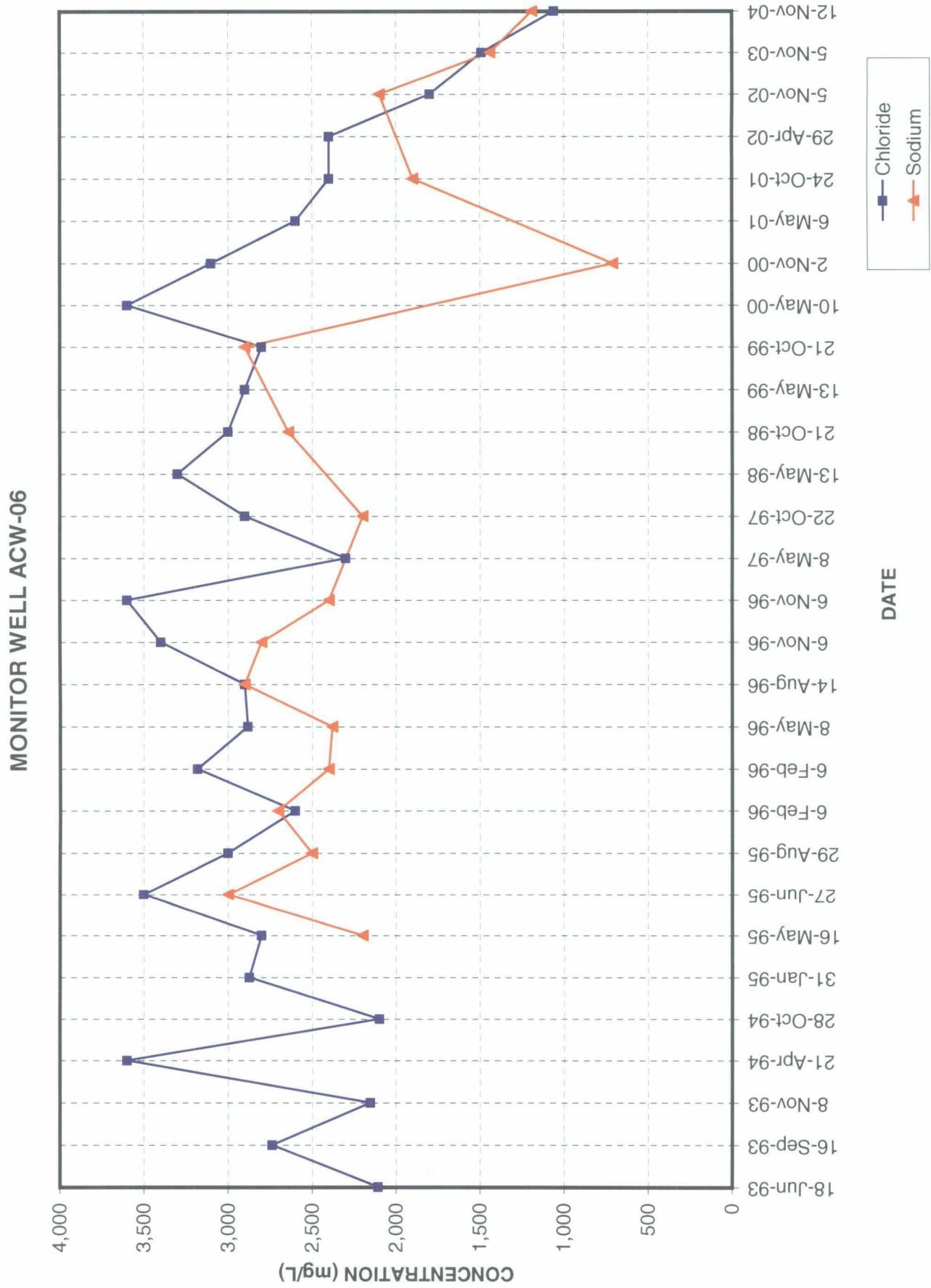


MONITOR WELL ACW-05

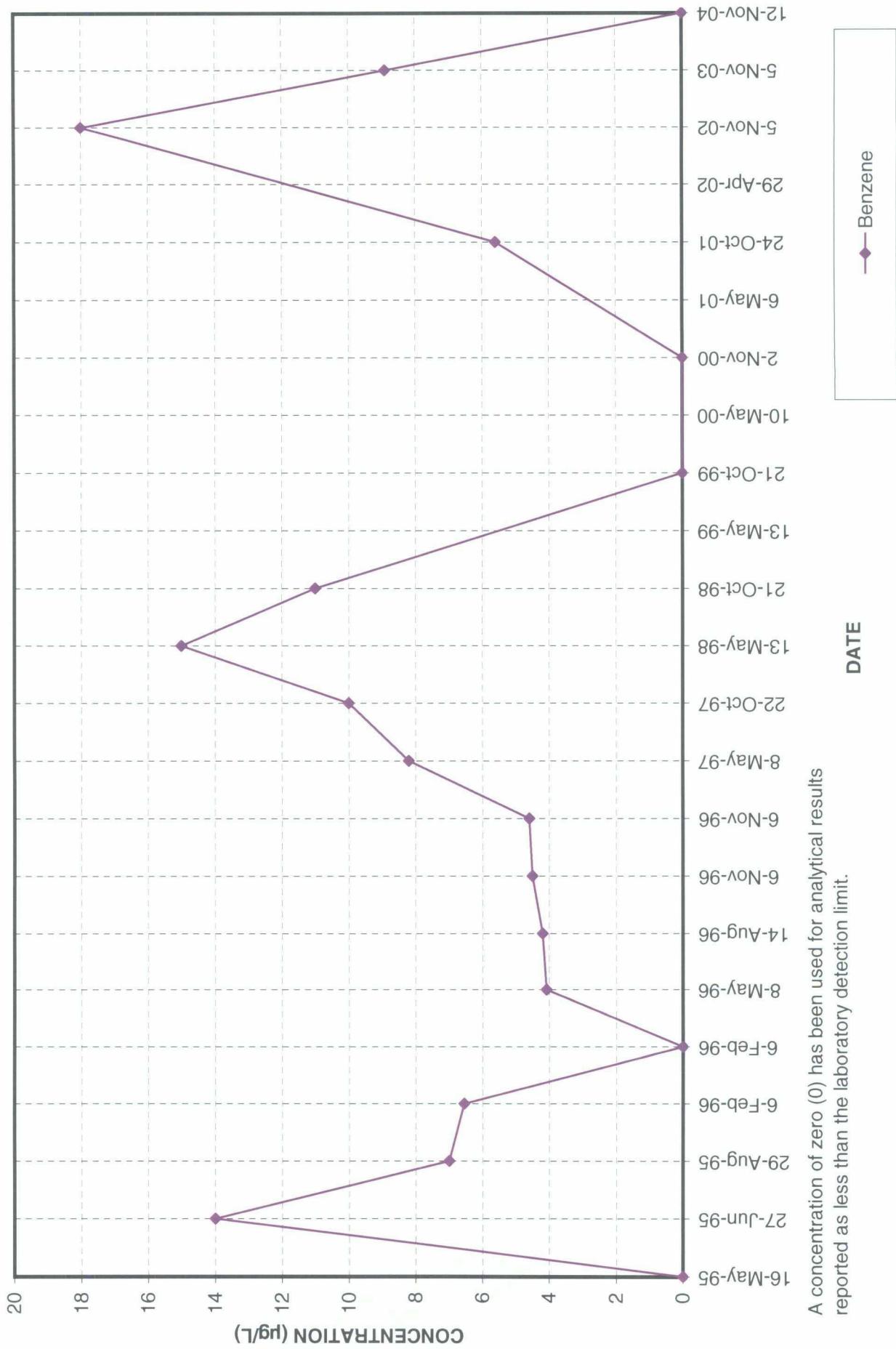


MONITOR WELL ACW-06

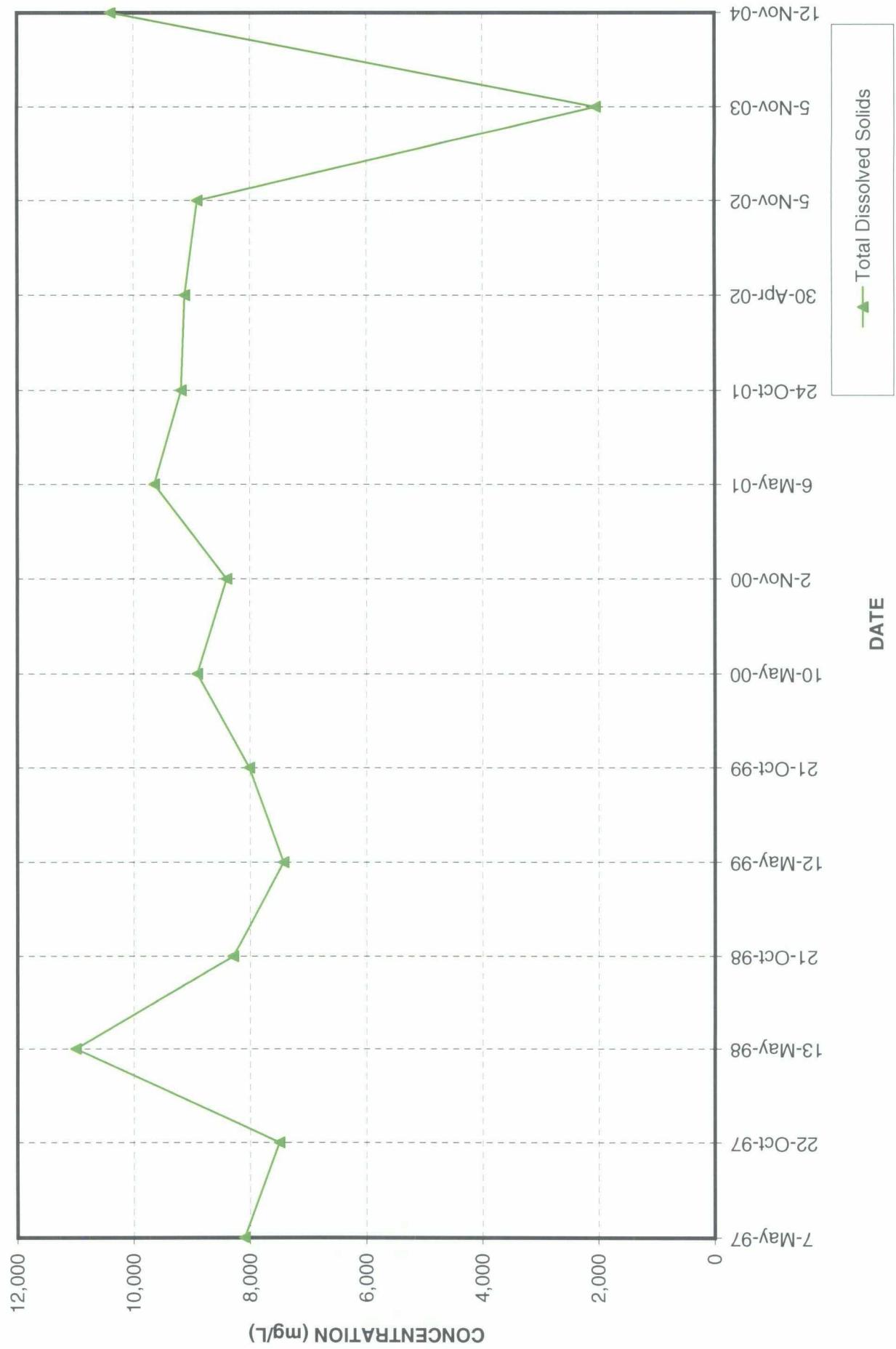


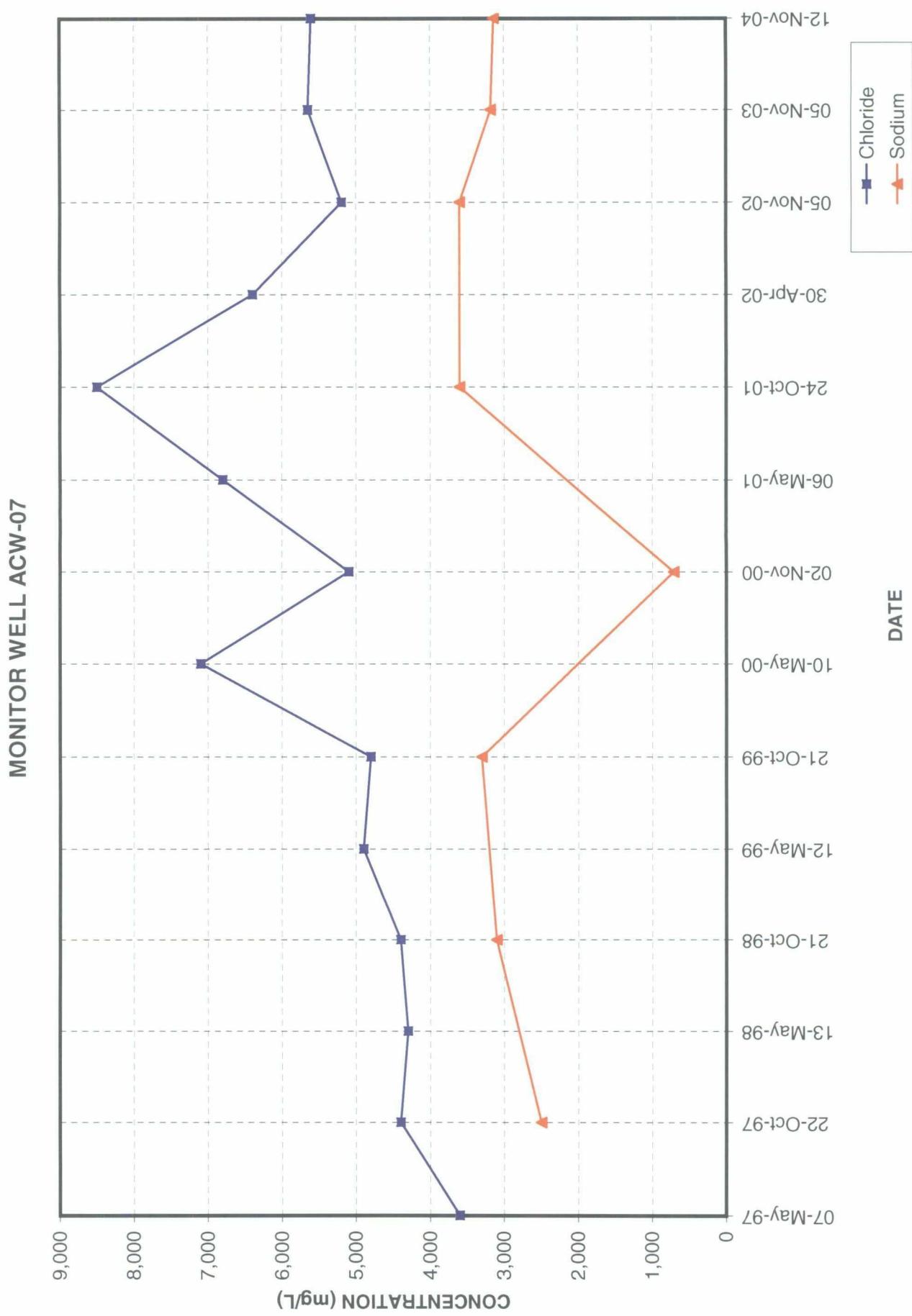


MONITOR WELL ACW-06

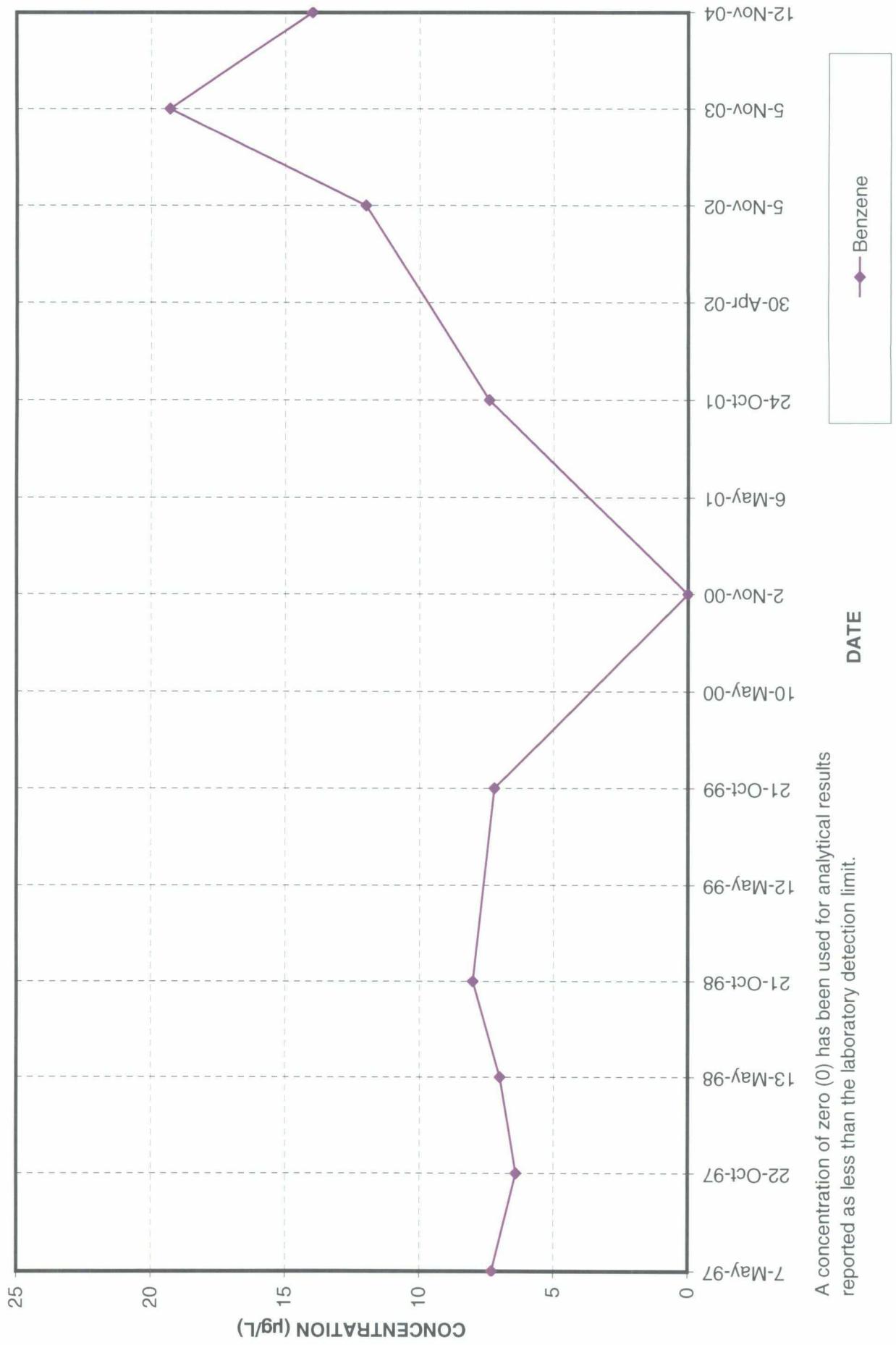


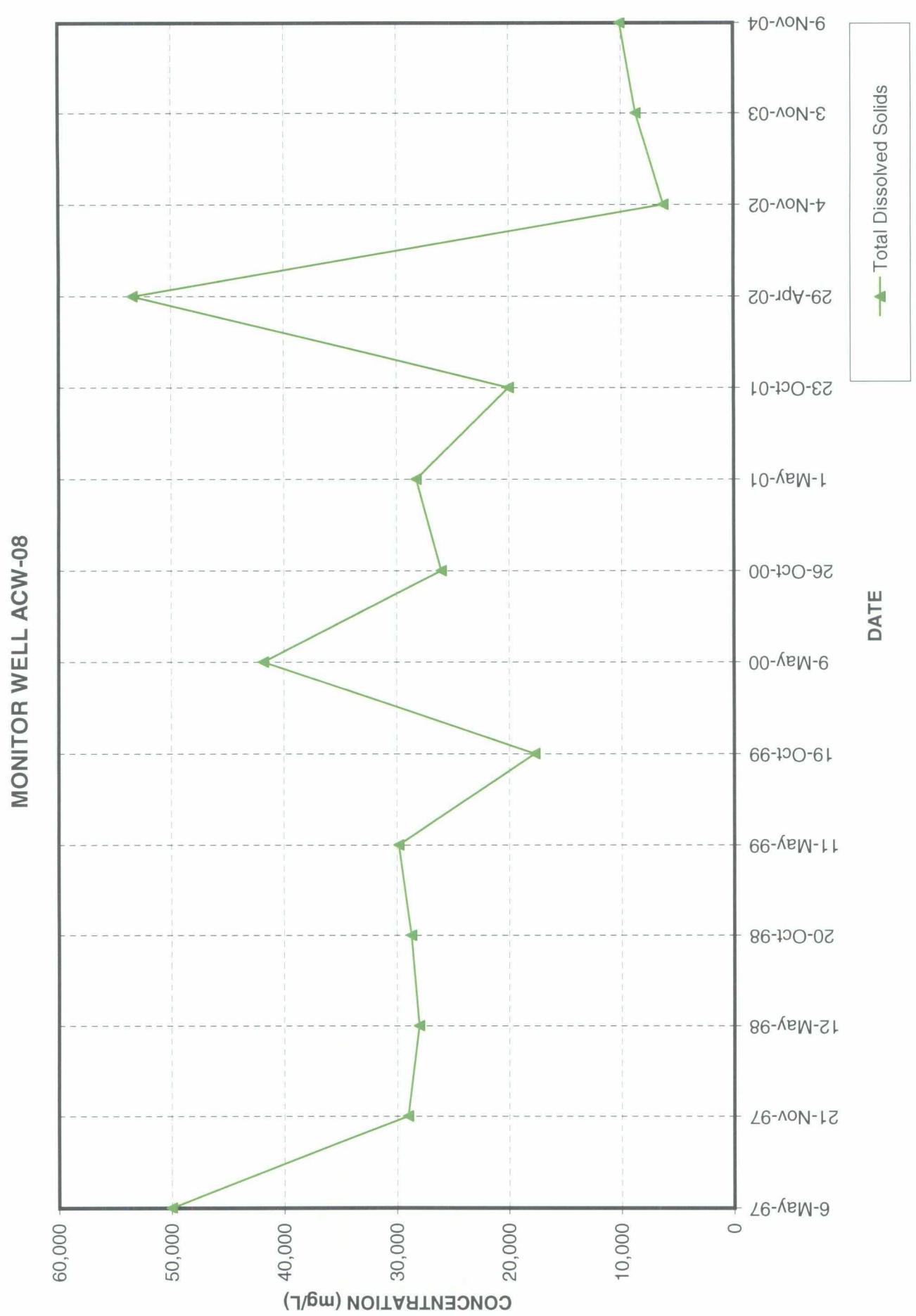
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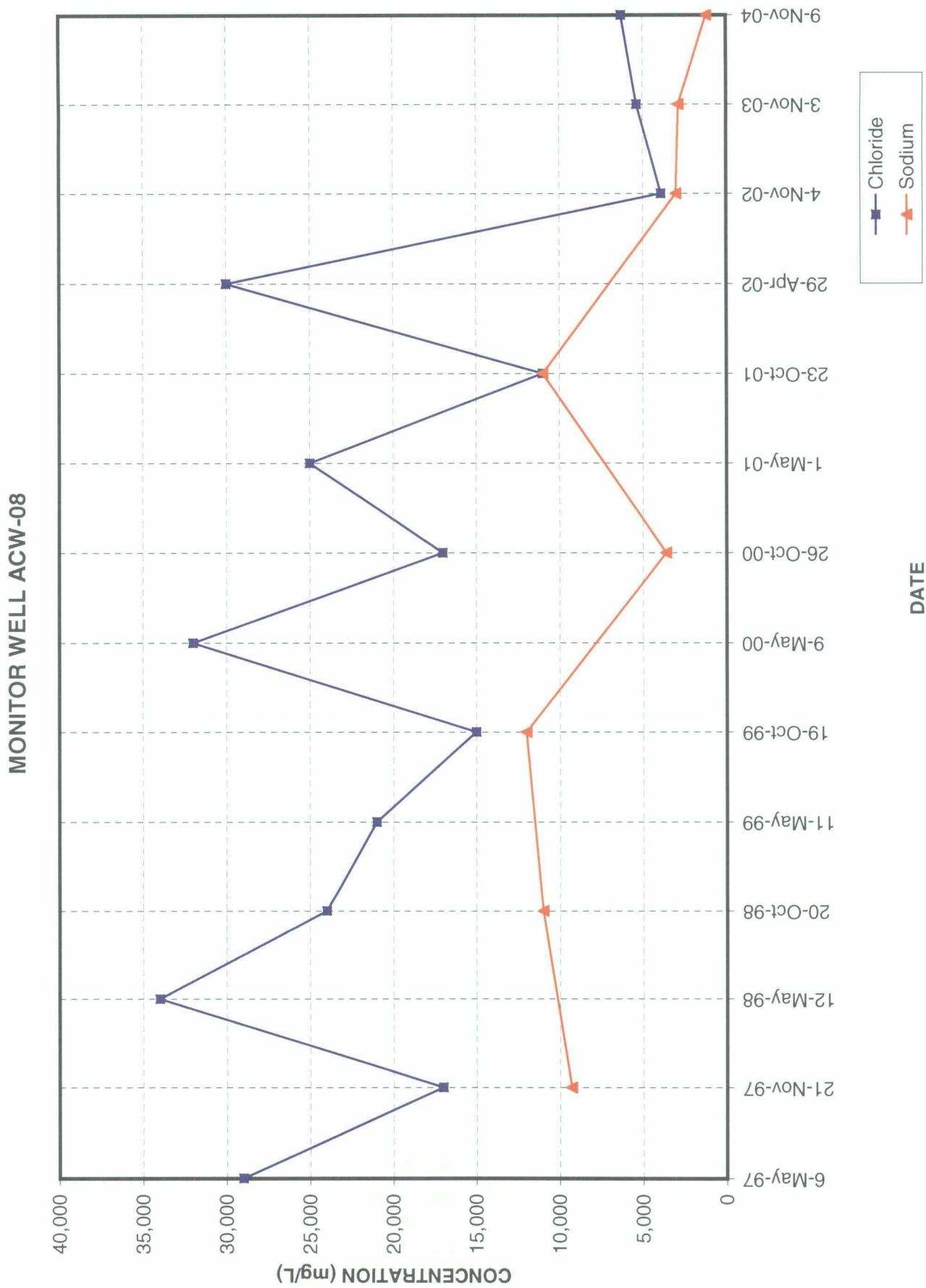




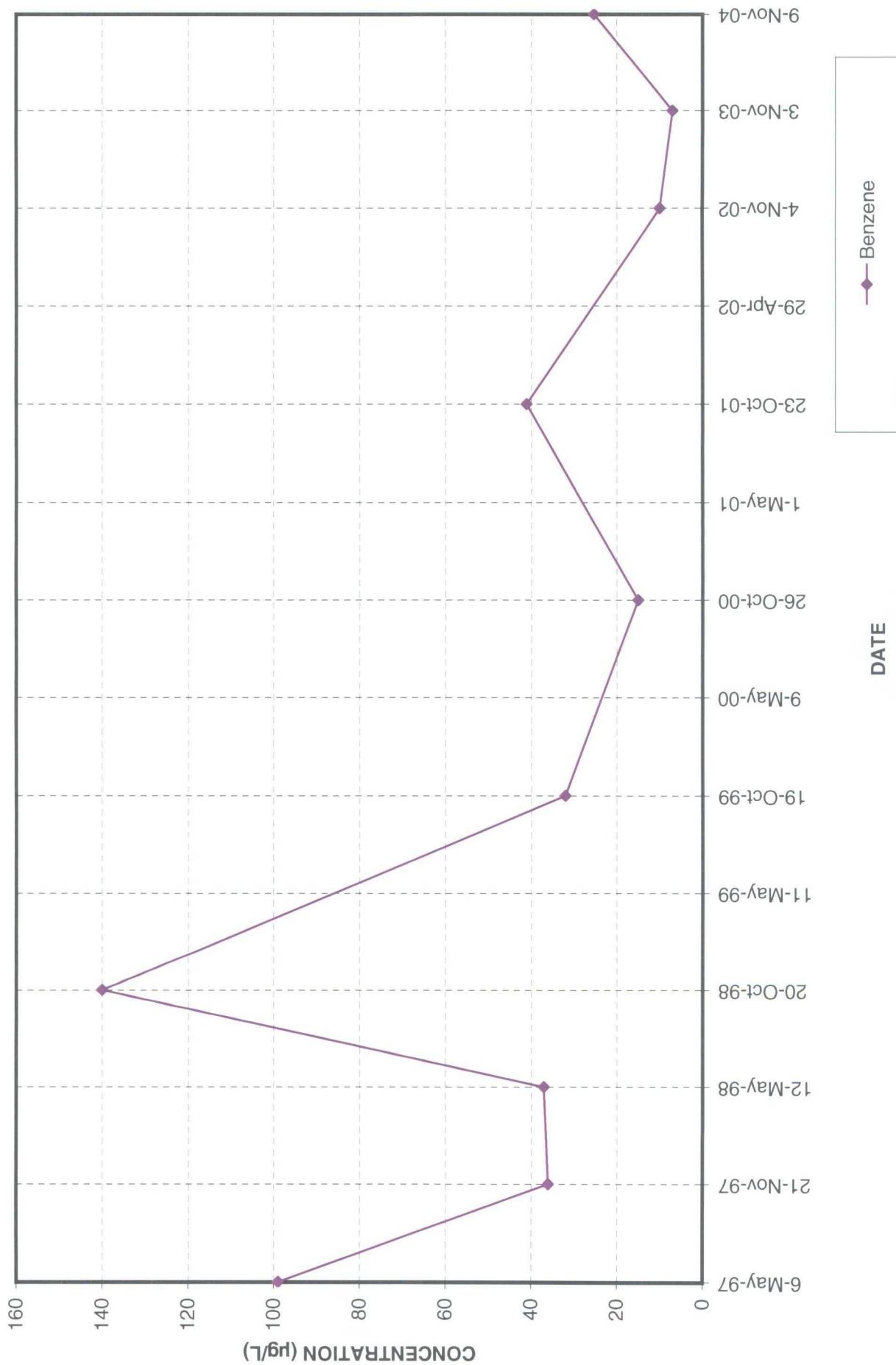
MONITOR WELL ACW-07



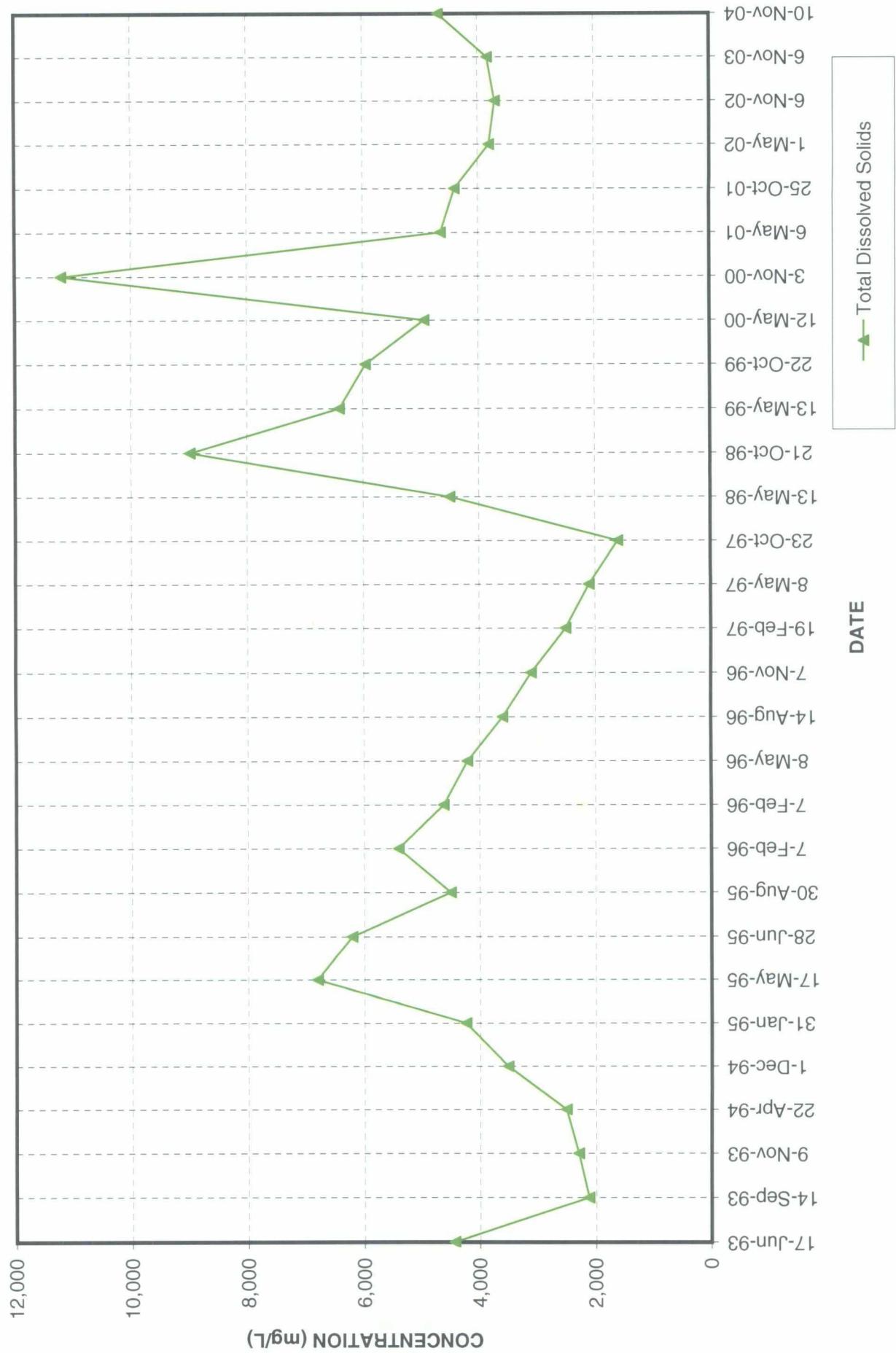




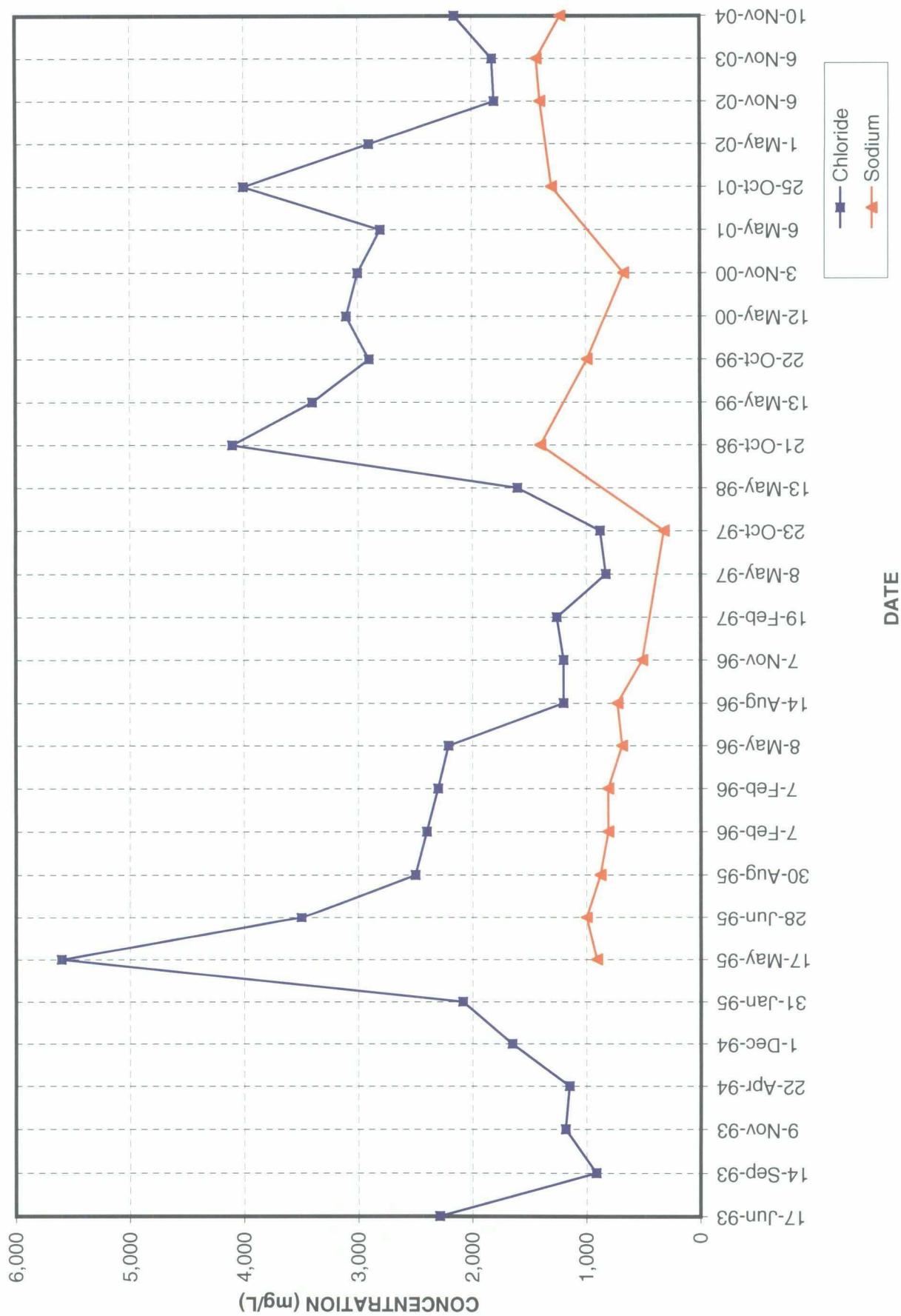
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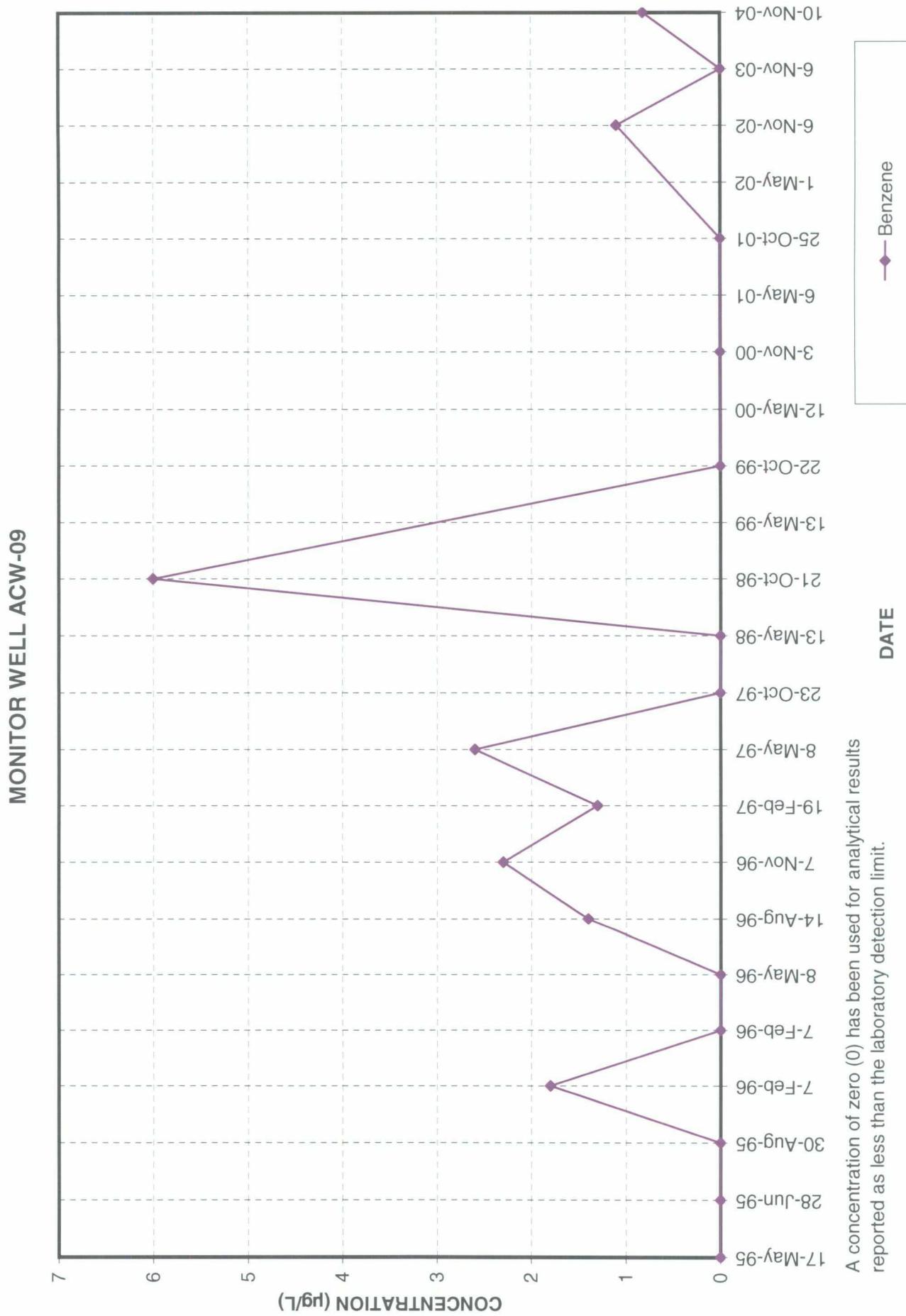


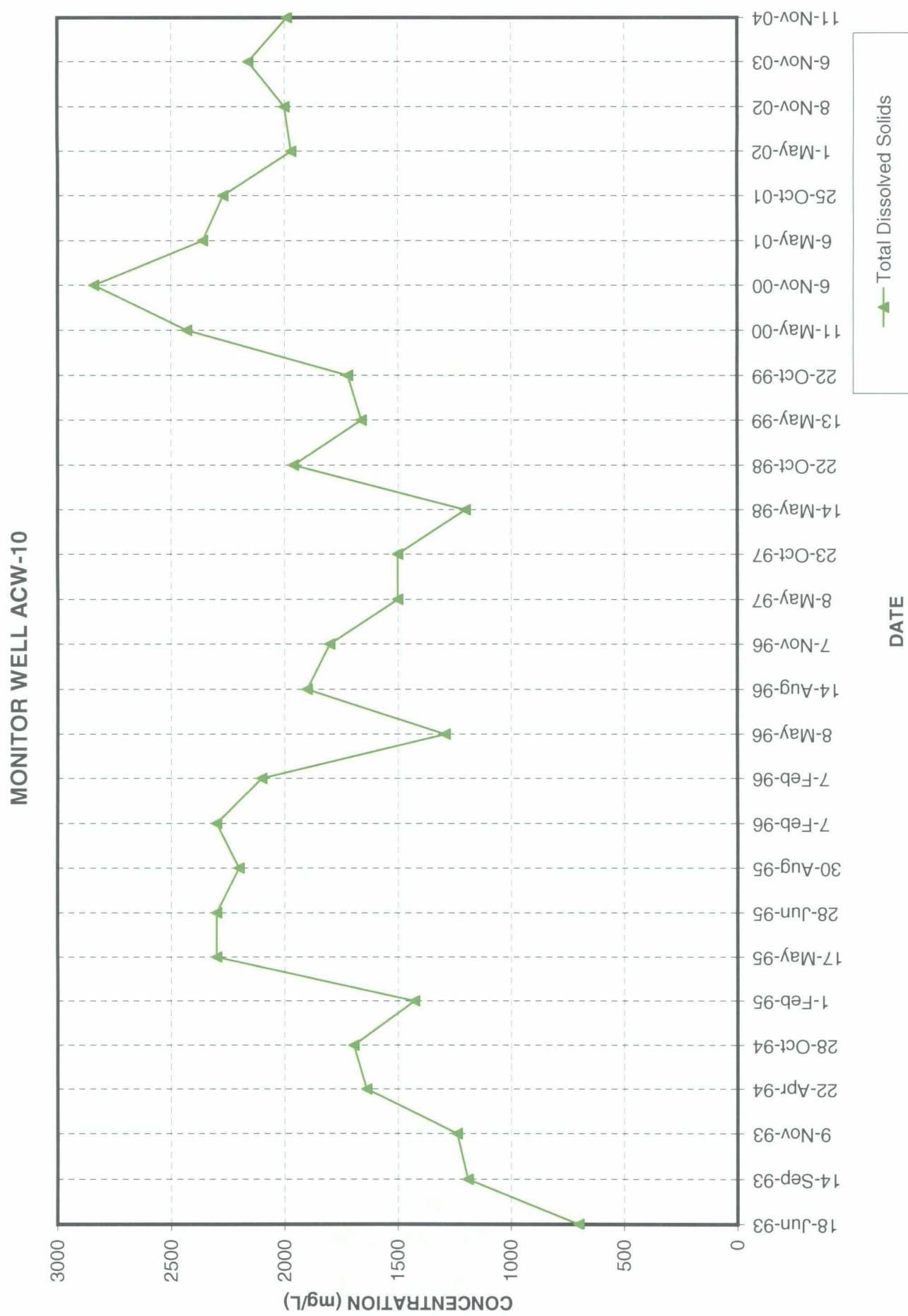
MONITOR WELL ACW-09



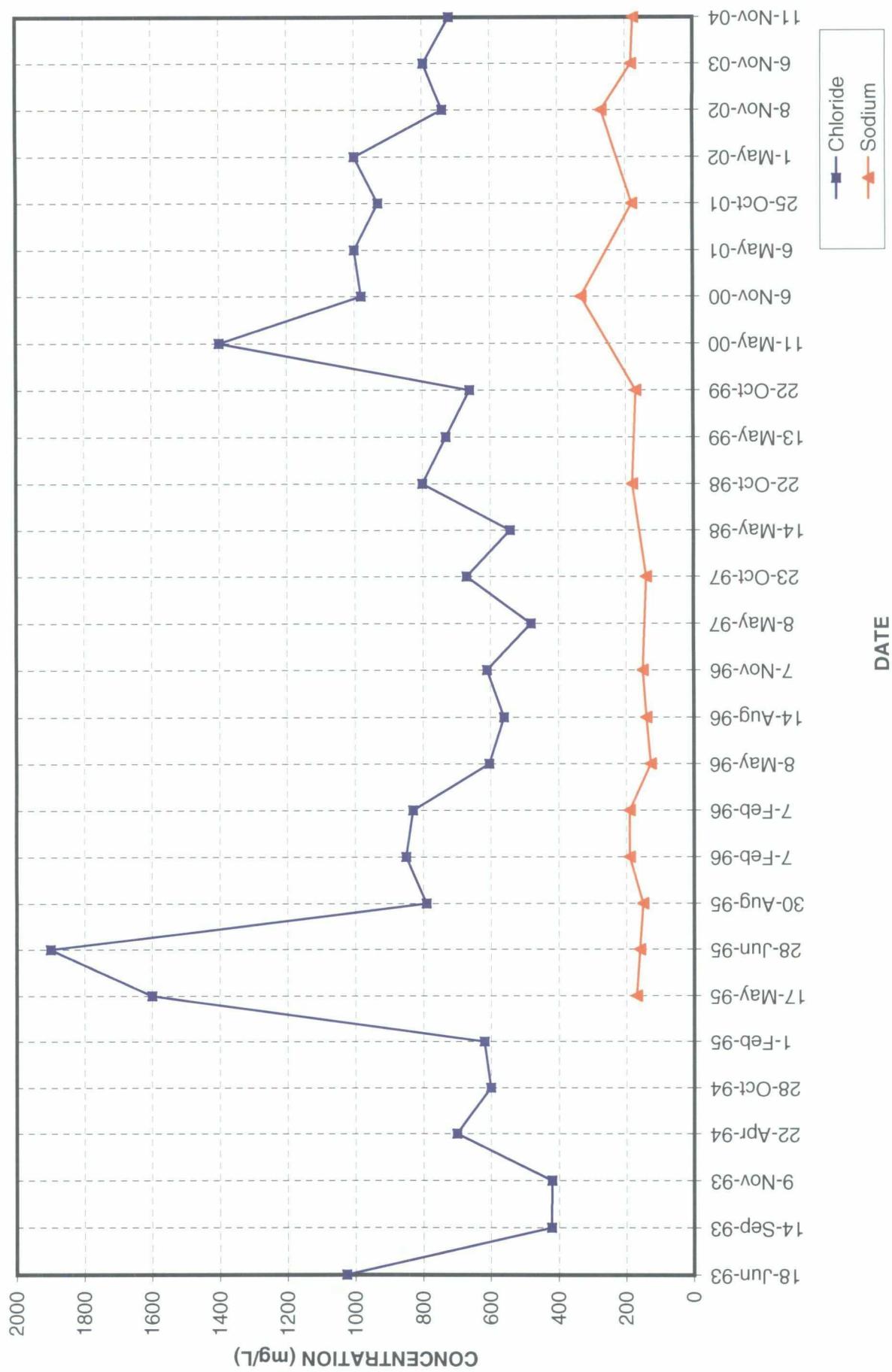
MONITOR WELL ACW-09

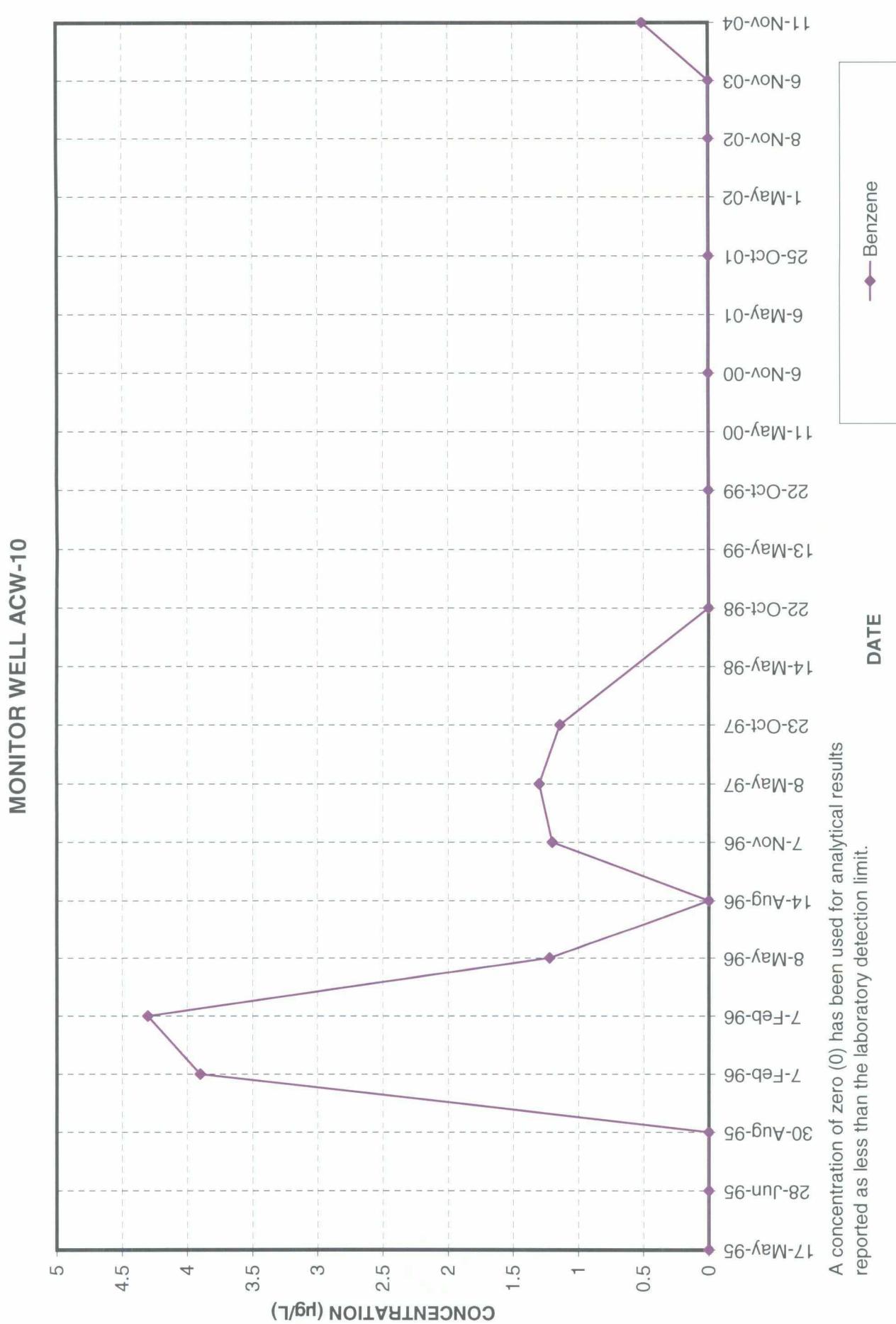




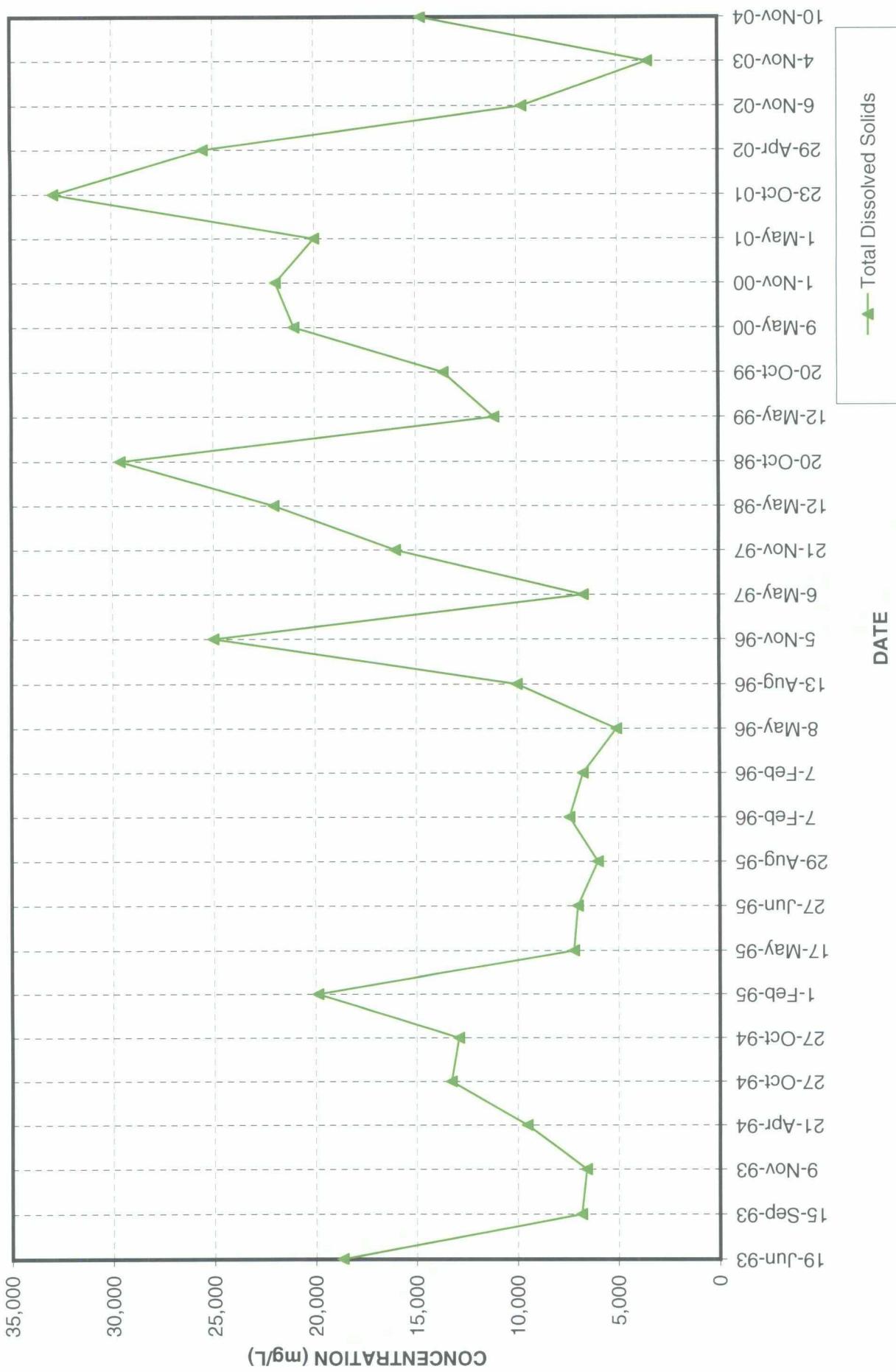


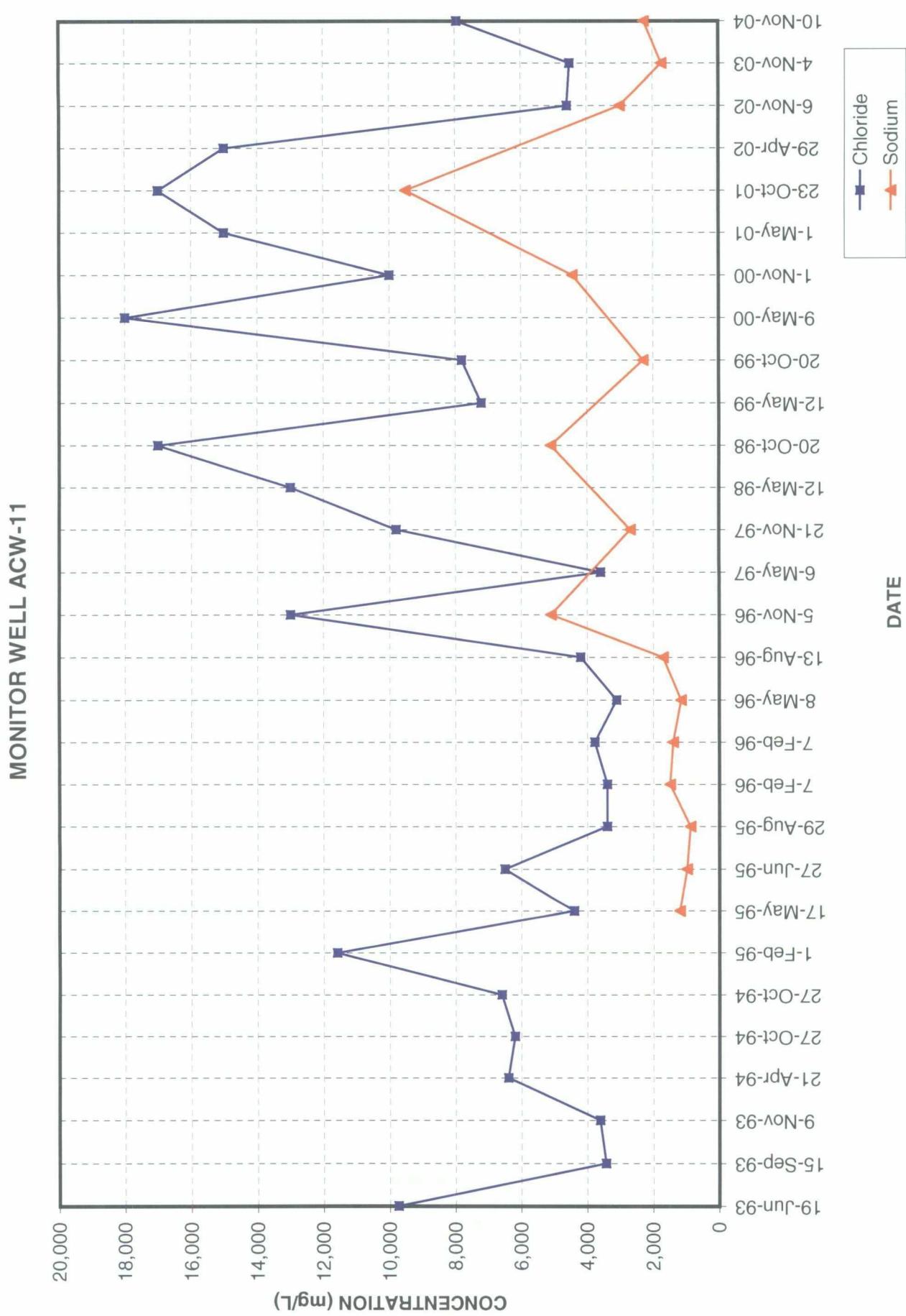
MONITOR WELL ACW-10



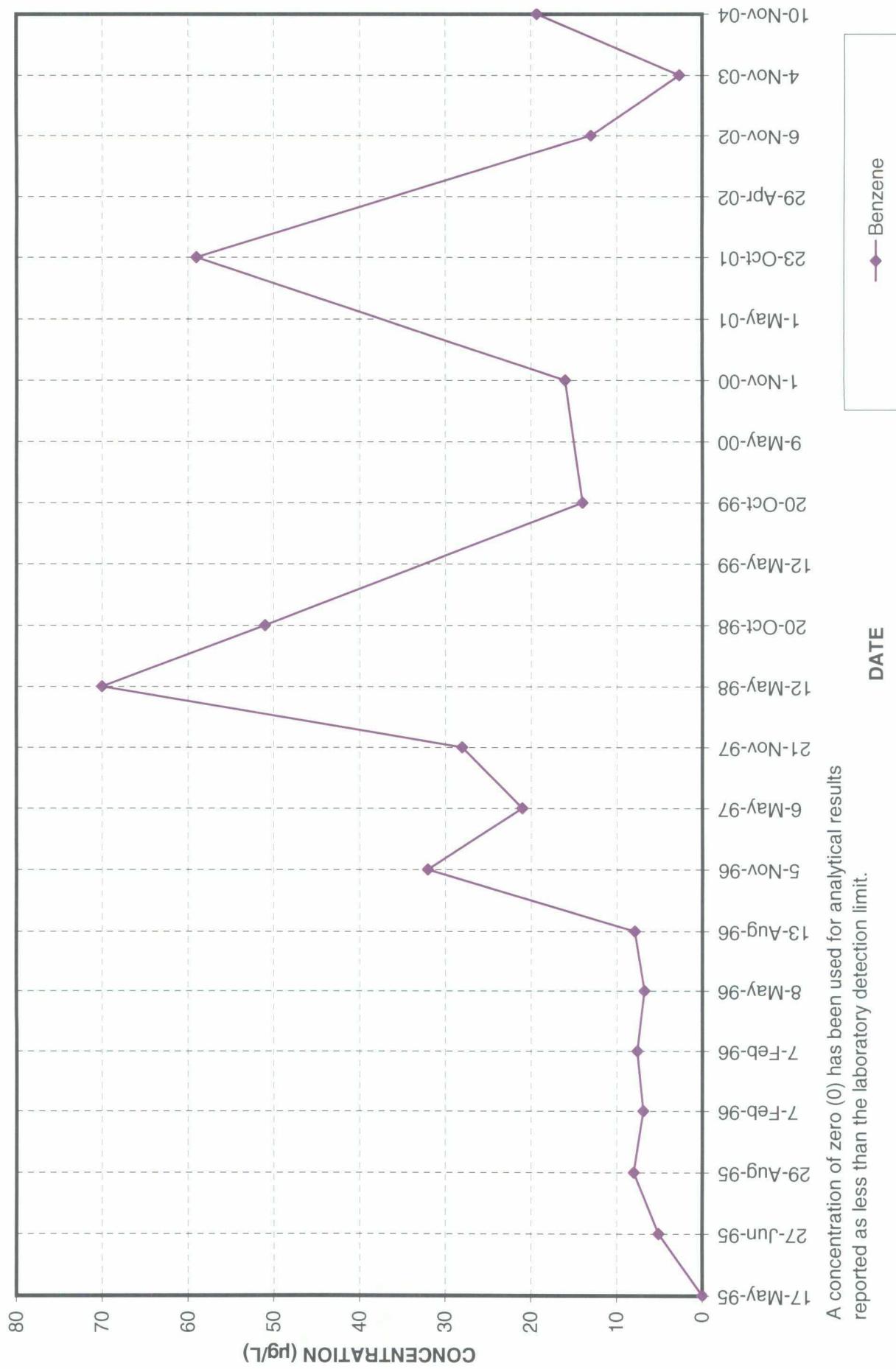


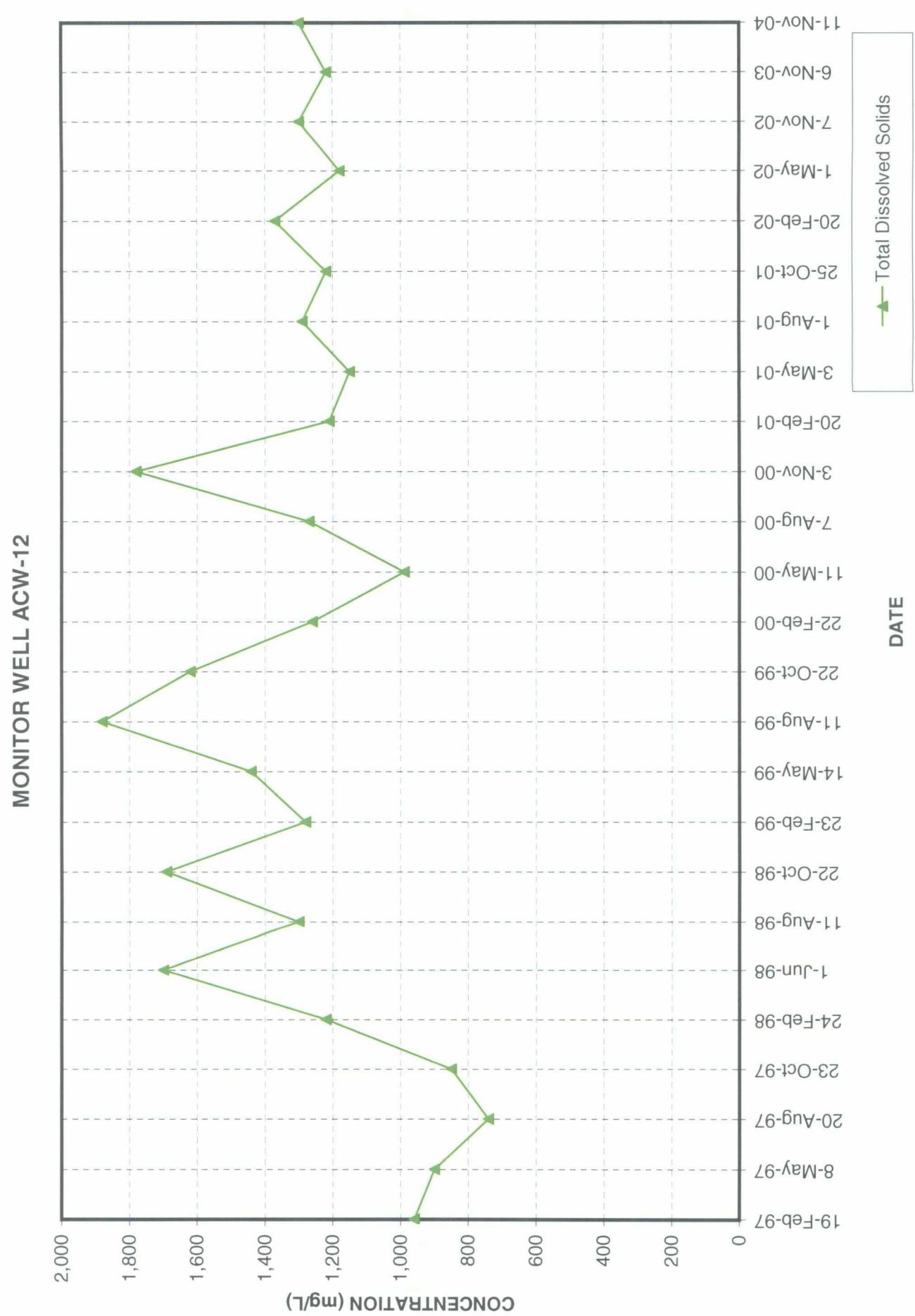
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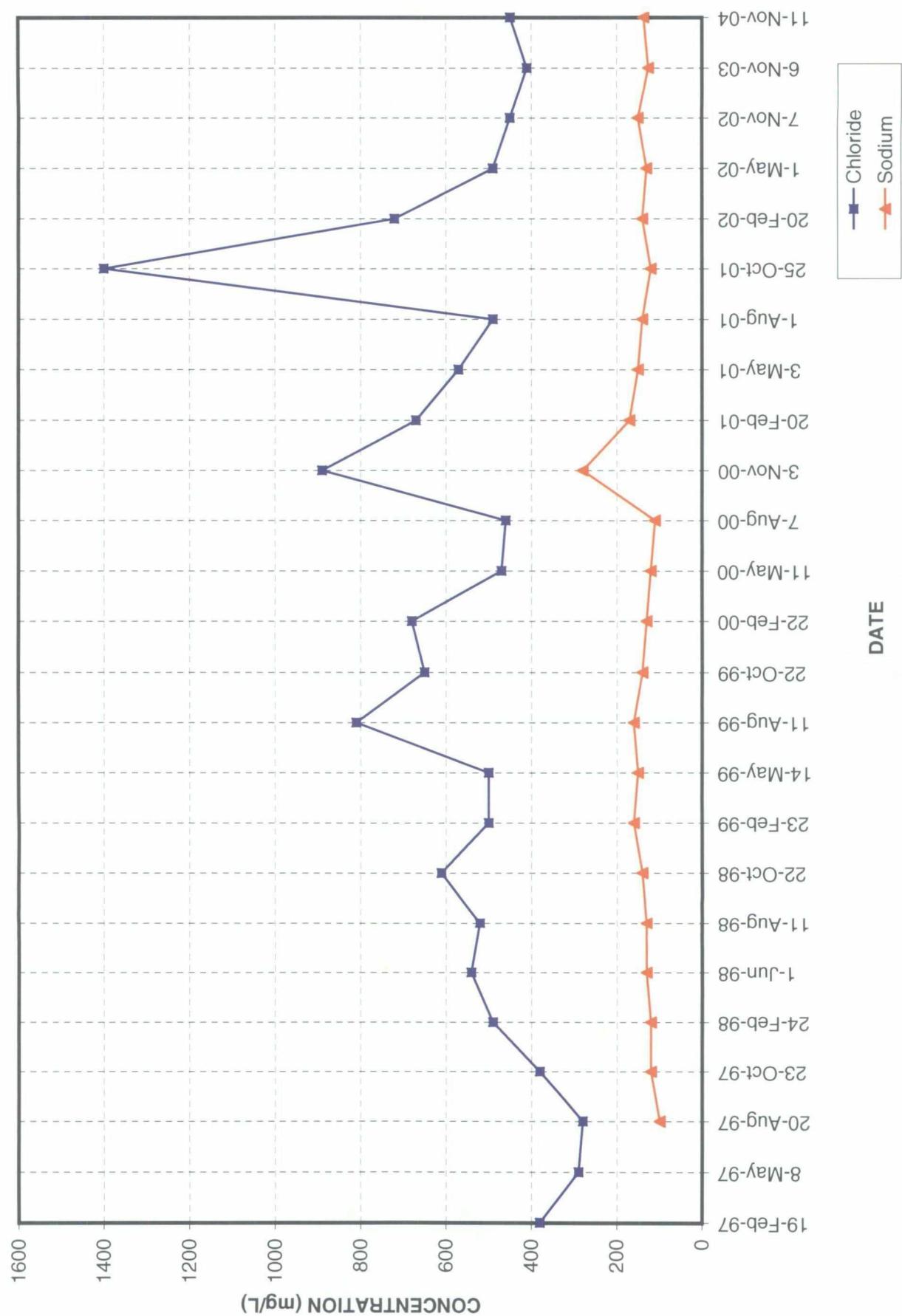


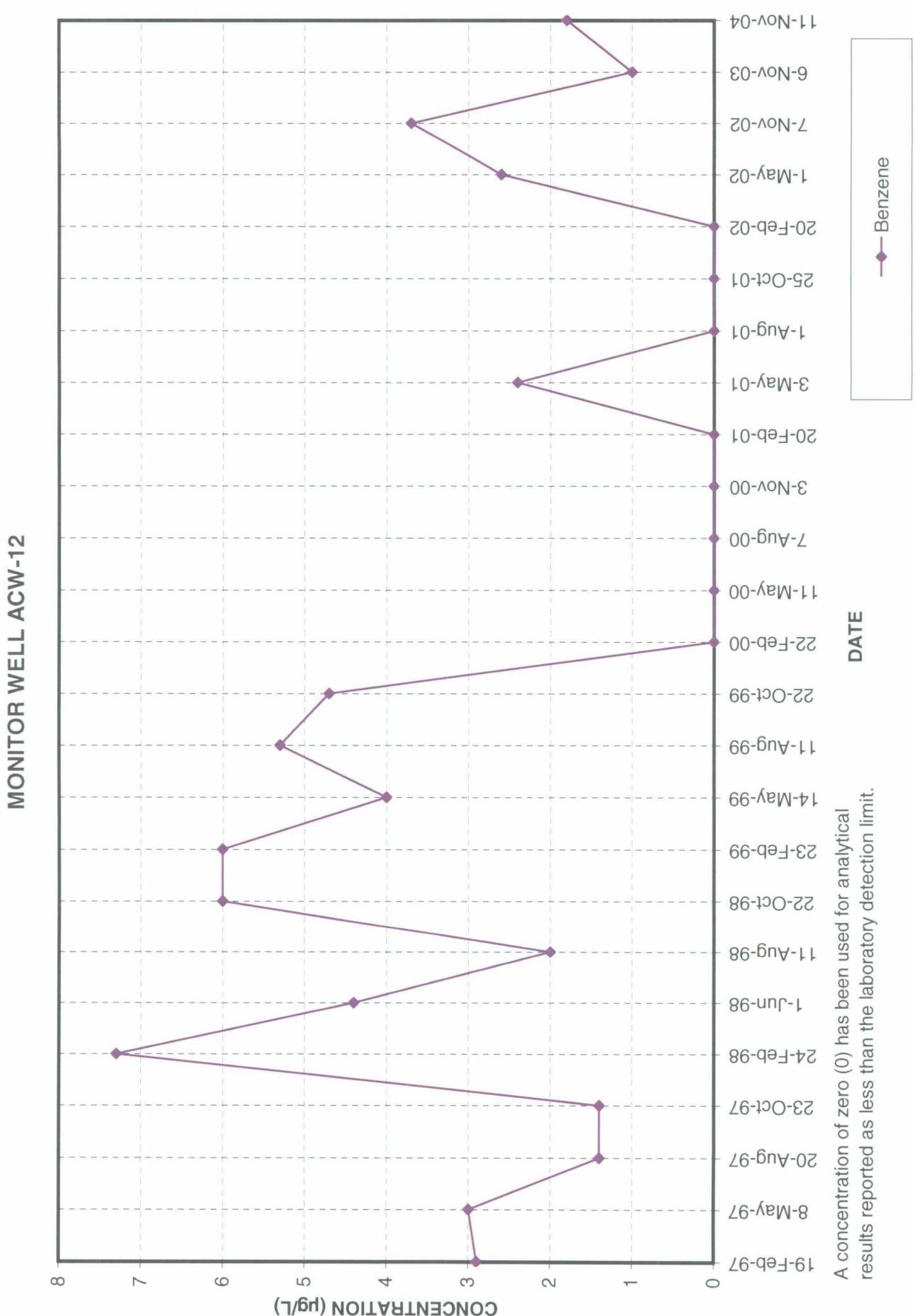
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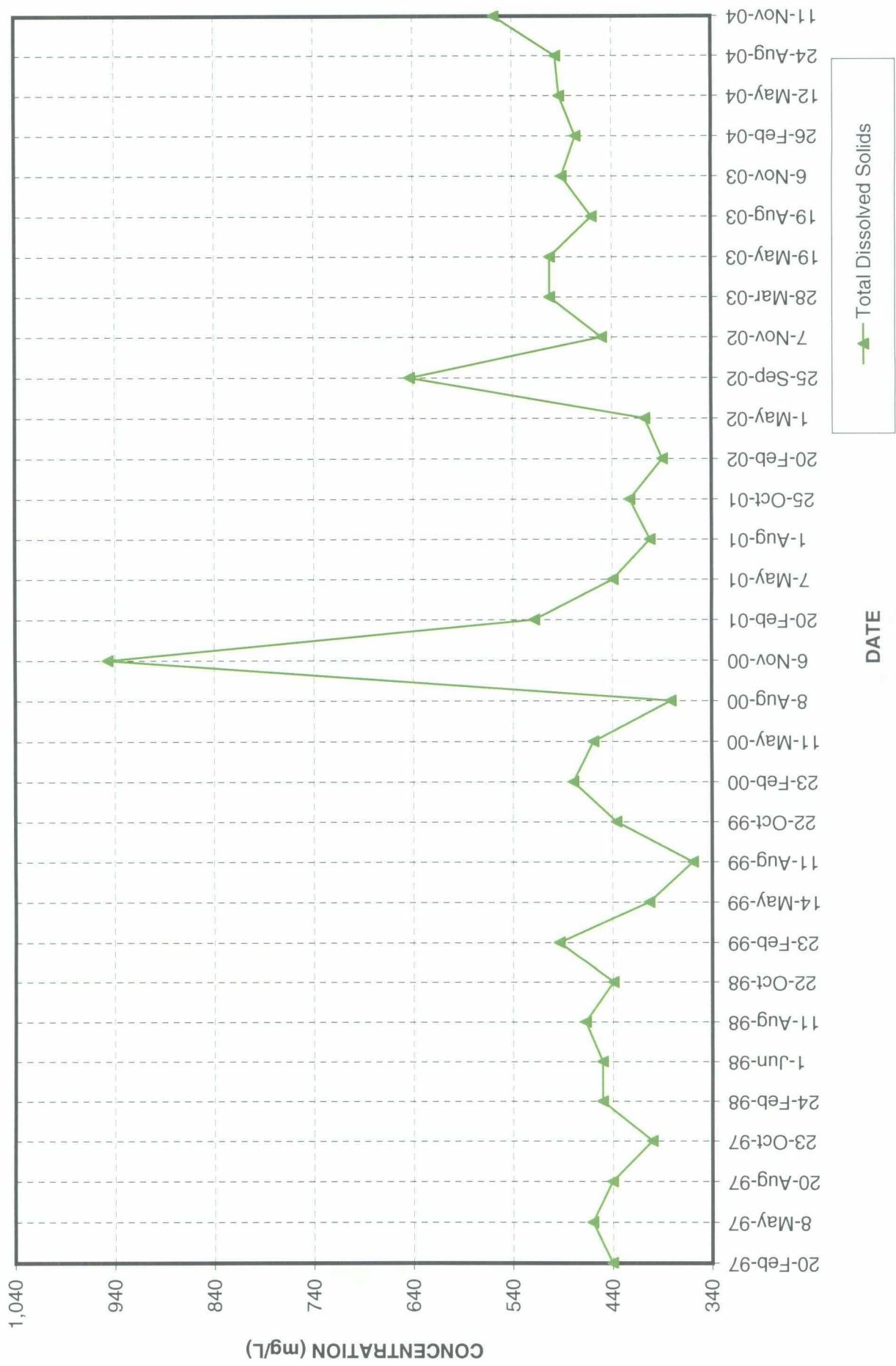


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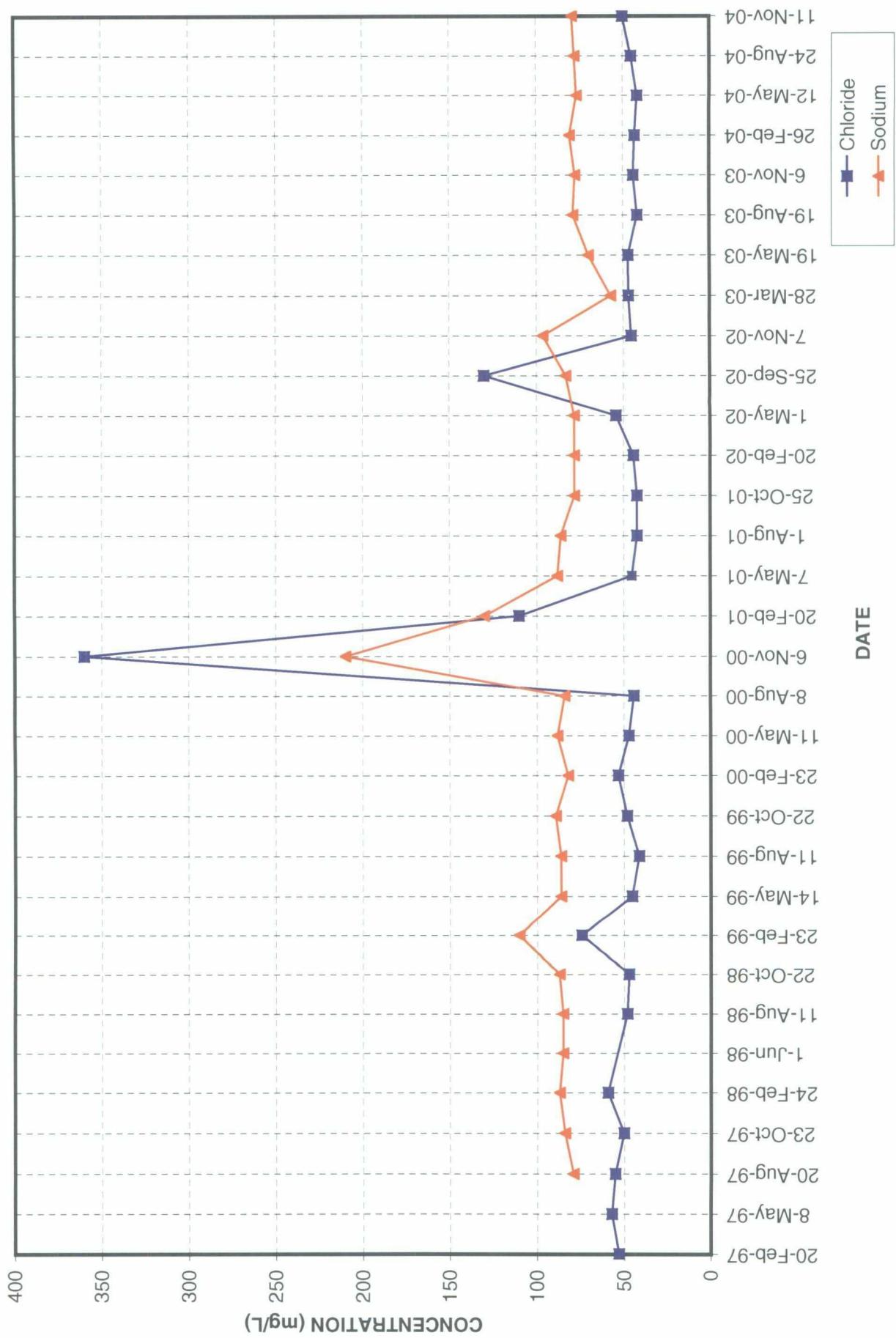




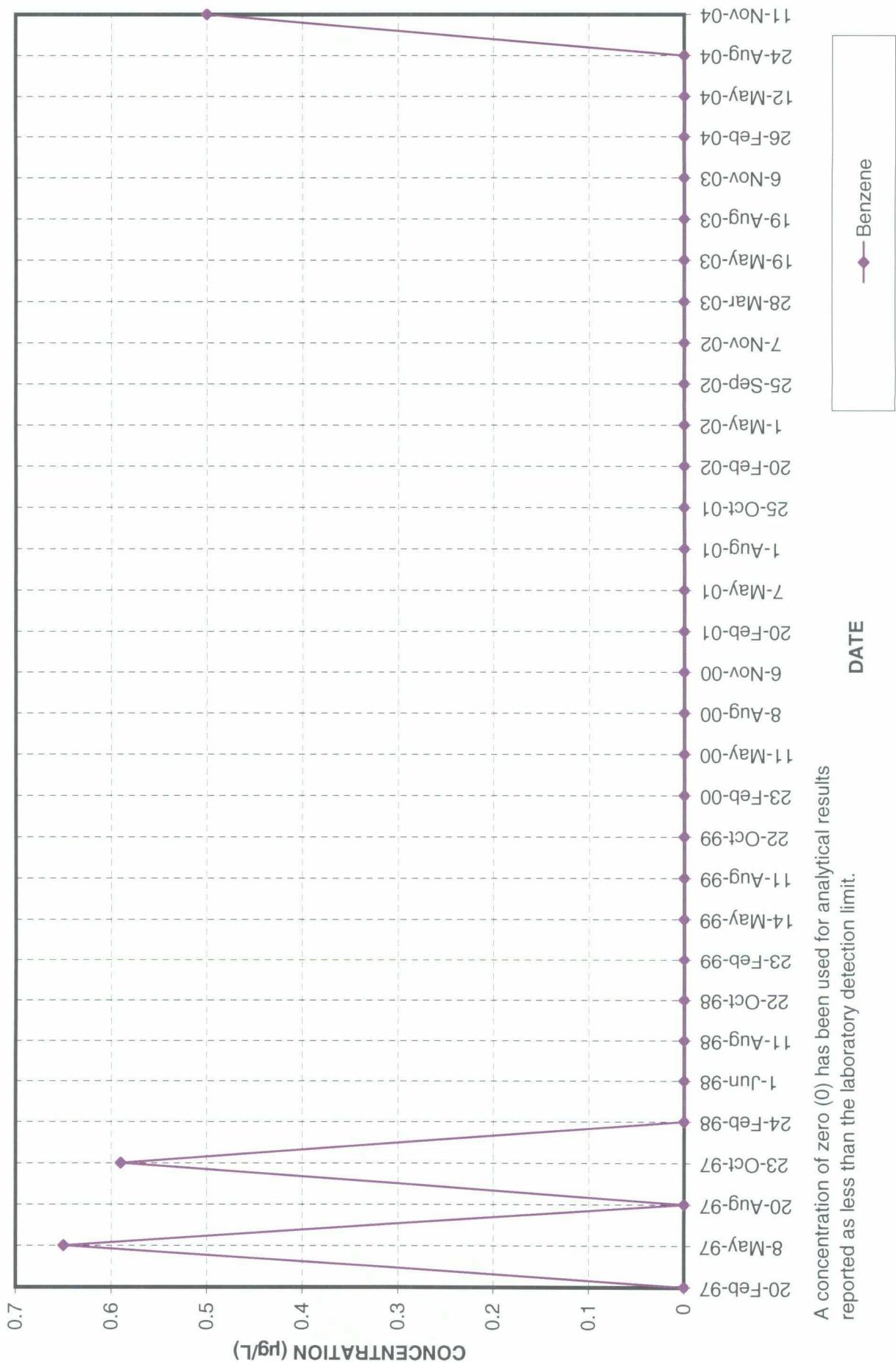
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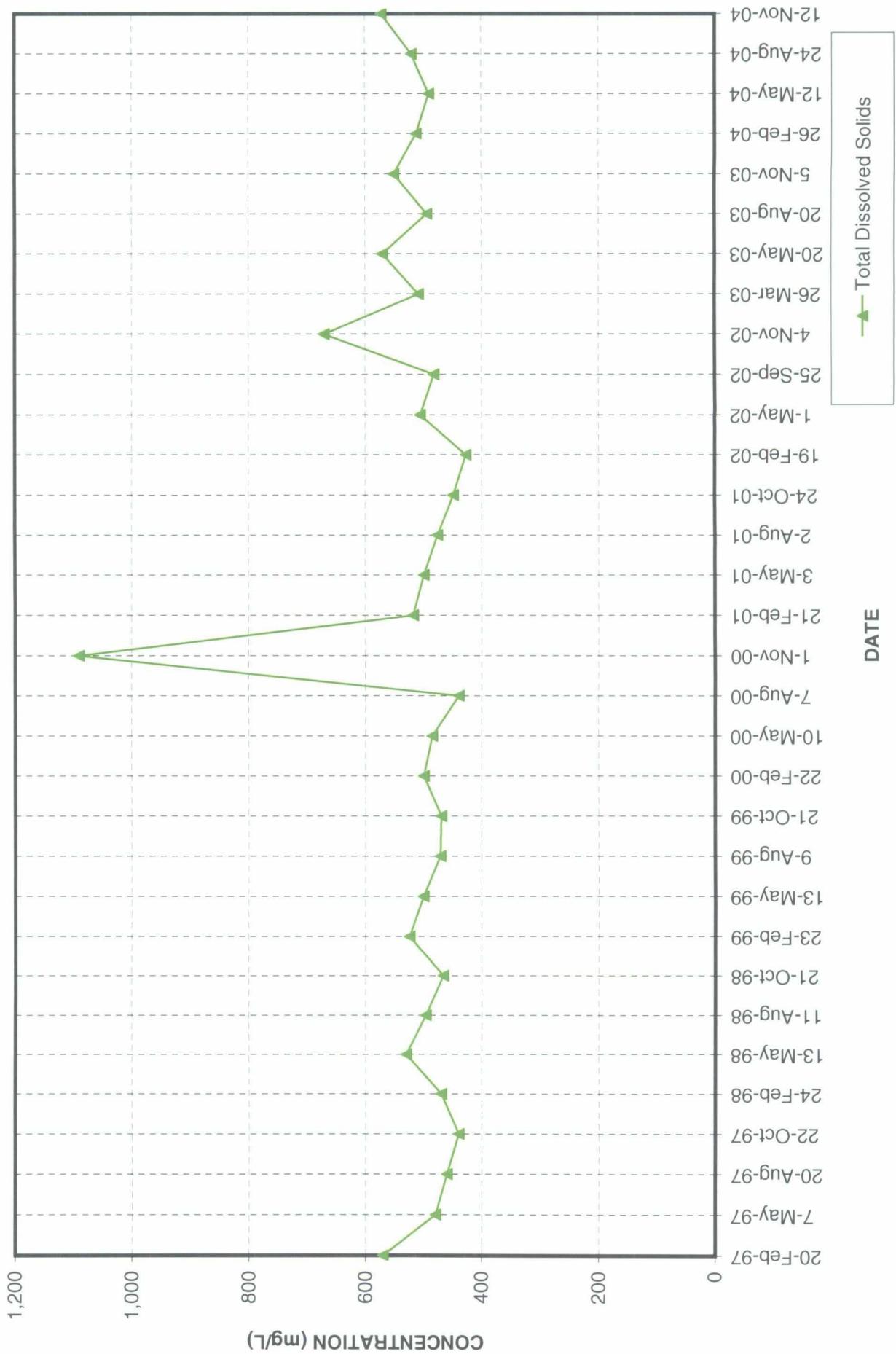
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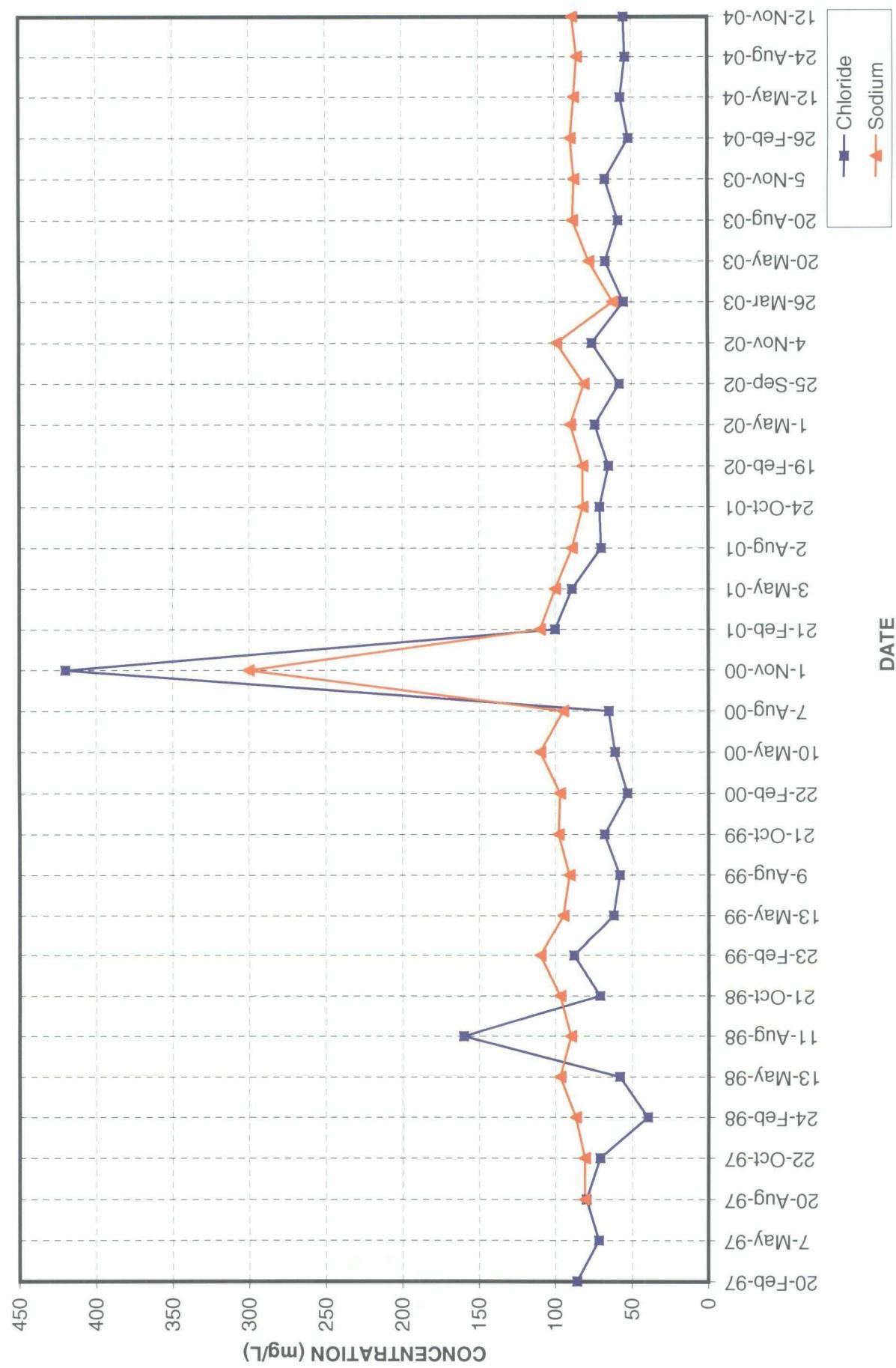
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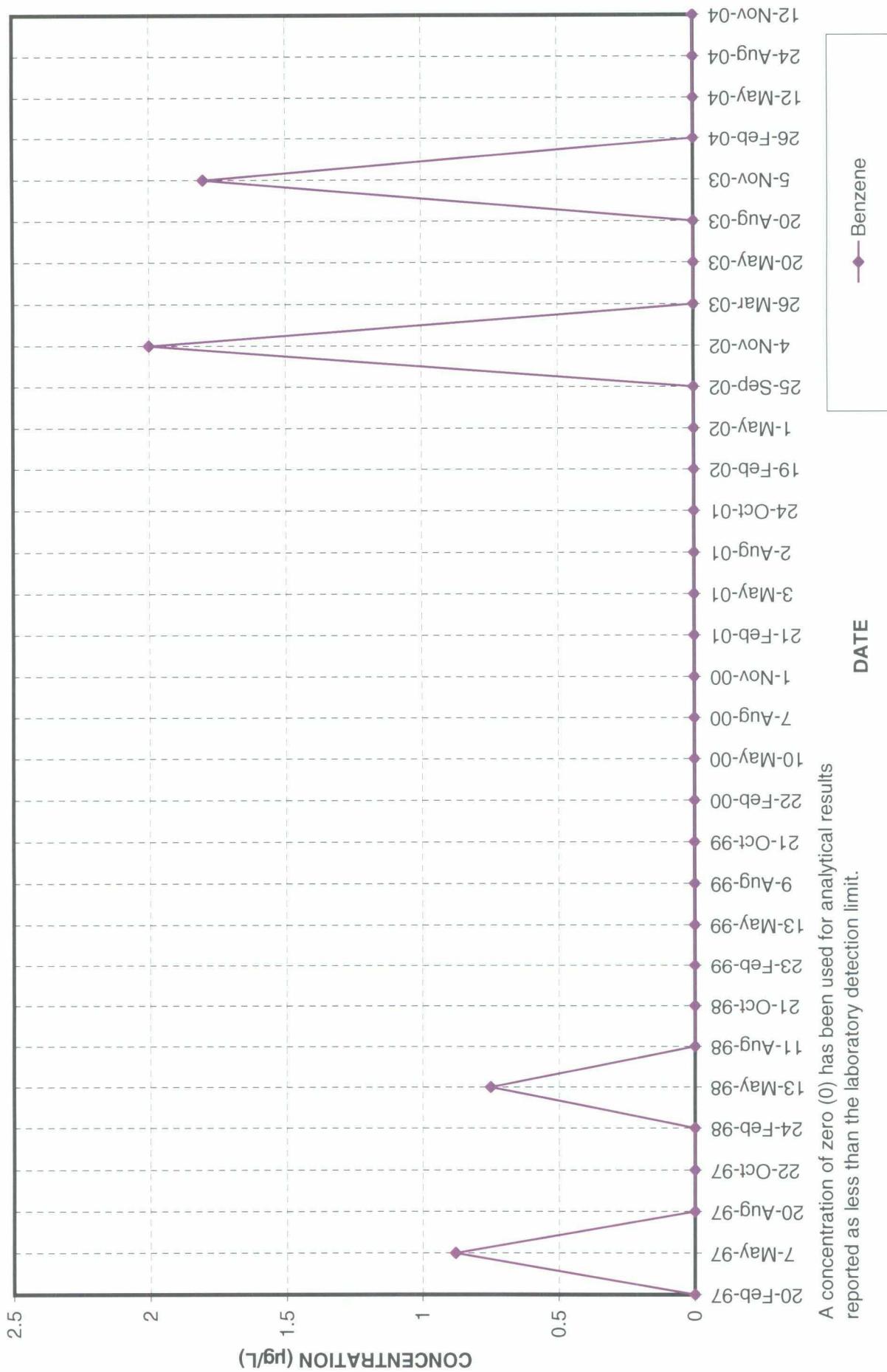
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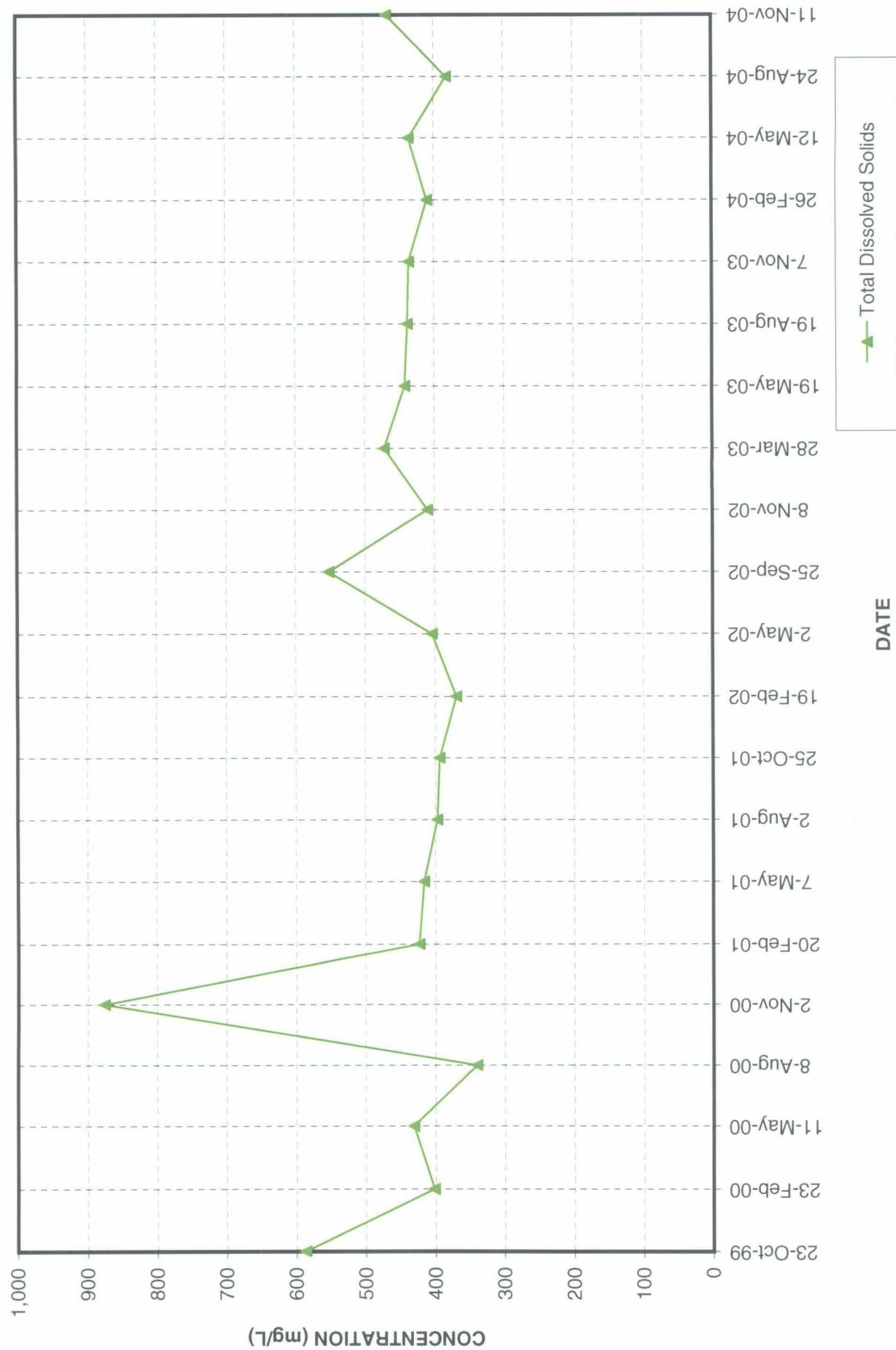
MONITOR WELL ACW-14



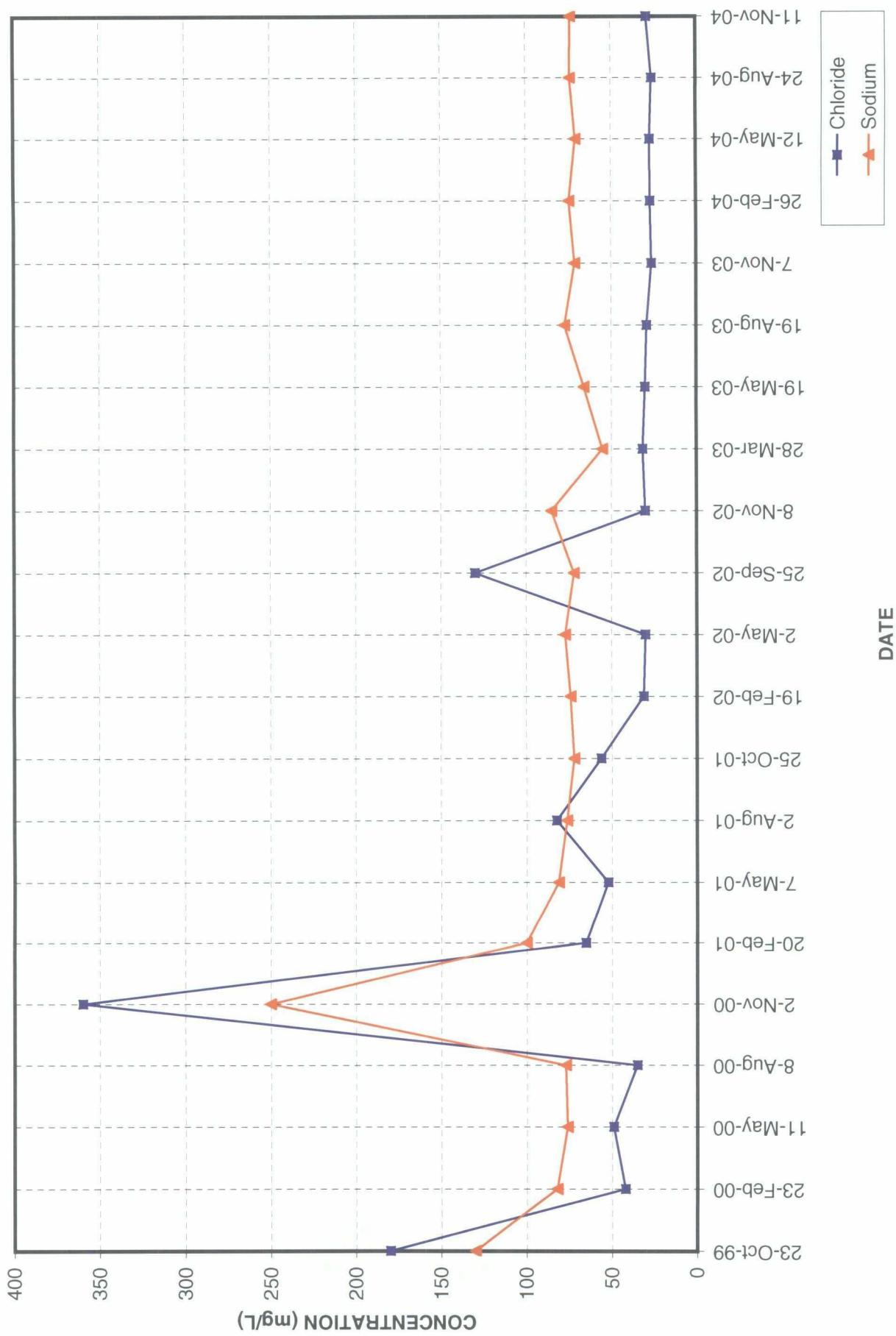
MONITOR WELL ACW-14



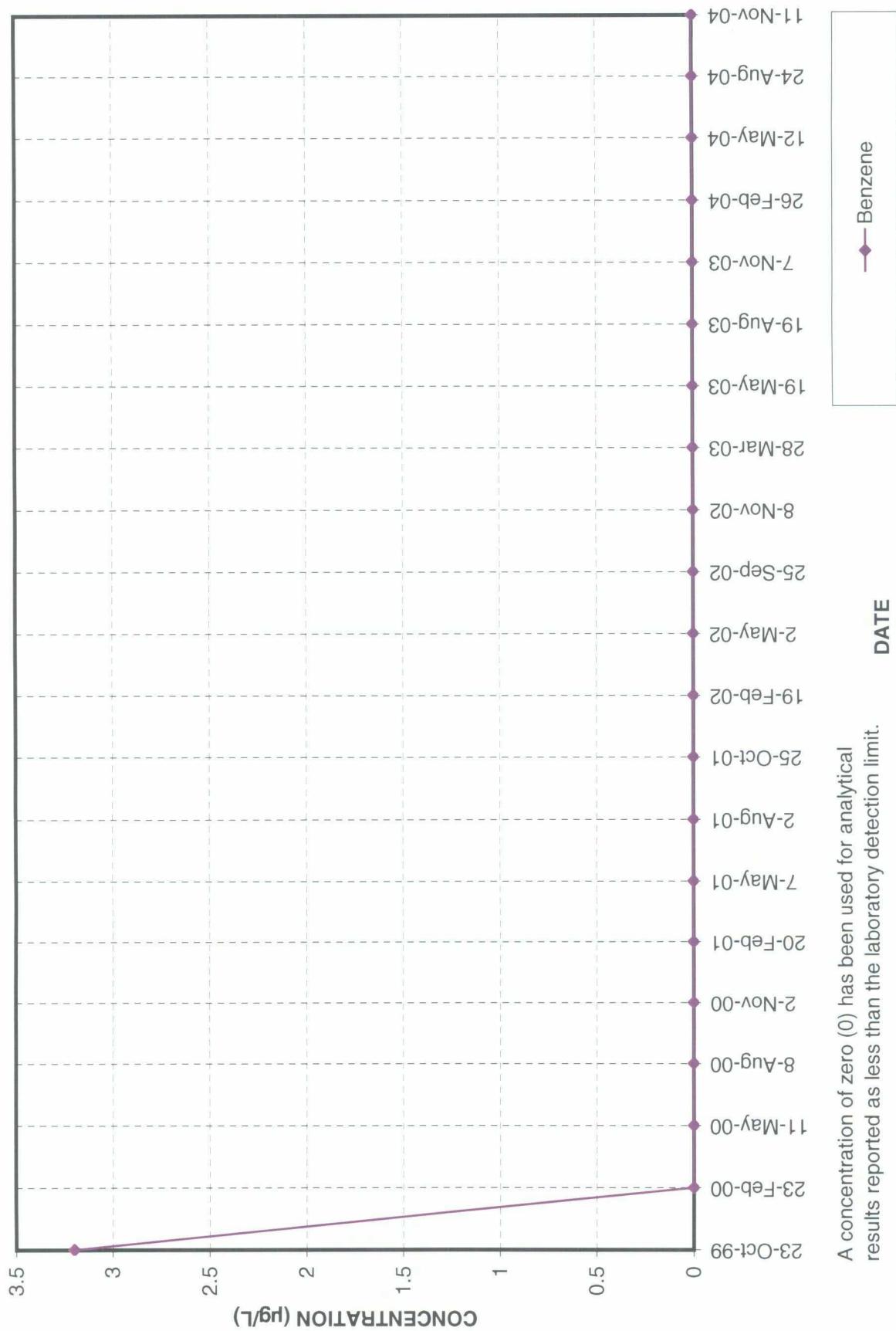
MONITOR WELL ACW-15



MONITOR WELL ACW-15



MONITOR WELL ACW-15



APPENDICES

APPENDIX A
LABORATORY ANALYTICAL REPORTS