

GW - 25

MONITORING REPORTS

DATE:

2005-1999

**2005
ANNUAL GROUND WATER MONITORING REPORT
TARGA MIDSTREAM SERVICES, L.P.
MONUMENT GAS PLANT (GW-025)
LEA COUNTY, NEW MEXICO**

Prepared for:

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Table of Contents

<u>Section</u>	<u>Page</u>
TABLE OF CONTENTS	i
LIST OF TABLES	ii
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
1.0 INTRODUCTION	1
2.0 ADDITIONAL INVESTIGATIONS	2
3.0 2005 GROUND WATER MONITORING	2
3.1 <u>Depth to Ground Water and Hydrocarbon Product</u>	2
<u>Thickness Measurements</u>	
3.2 <u>Ground Water Samples</u>	4
4.0 CONCLUSIONS	5
5.0 RECOMMENDATIONS	6

List of Tables

Table

- 1. Summary of Depth to Ground Water and Hydrocarbon Product Thickness Measurements**
- 2. Summary of BTEX Concentrations in Ground Water**
- 3. Summary of Dissolved Metal Concentrations in Ground Water**
- 4. Summary of Chloride, Sulfate and TDS Concentrations in Ground Water**

List of Figures

Figure

- 1. Site Location and Topographic Map**
- 2. Facility Drawing**
- 3. Ground Water Potentiometric Surface Map, June 14, 2005**
- 4. Ground Water Potentiometric Surface Map, December 12, 2005**
- 5. Benzene Concentration in Ground Water, June 14, 2005 and August 9, 2005**
- 6. Benzene Concentration in Ground Water, December 12, 2005**
- 7. Concentration of Dissolved Metals in Ground Water, December 12, 2005**
- 8. Concentration of Chloride, Sulfate and TDS in Ground Water, June 14, 2005**
- 9. Concentration of Chloride, Sulfate and TDS in Ground Water, December 12, 2005**

List of Appendices

Appendix

A. Laboratory Reports

2005

Annual Ground Water Monitoring Report

Targa Midstream Services, L.P.

Monument Gas Plant (GW-025)

Lea County, New Mexico

1.0 INTRODUCTION

Targa Midstream Services, L.P. ("Targa"), successor company to Dynegy Midstream Services, L.P., has retained Larson and Associates, Inc. ("LA") to perform quarterly (4 times per year) ground water monitoring at its Monument Gas Plant ("Facility") located approximately 2.6 miles southeast of Monument, New Mexico. The Facility operates under New Mexico Oil Conservation Division ("OCD") Ground Water Discharge Plan GW-025 and is located in Unit Letter N ("SE/4, SW/4"), Section 36, Township 19 South, Range 36 East, Lea County, New Mexico. Figure 1 presents a location and topographic map. Figure 2 presents a Facility drawing.

On March 5, 1998, the OCD approved a request to modify the Facility's ground water monitoring program to include the following:

- Measure depth-to-groundwater and hydrocarbon product thickness in twelve (12) monitoring wells (WP-1, WP-2, WP-4, WP-5, WP-6, WP-7, WP-10, WP-11, WP-12, WP-13, WP-14 and WP-15) quarterly (4 times per year);
- Collect and analyze groundwater samples from six (6) monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13 and WP-14) during the second (2nd) quarter (April through June) for benzene, toluene, ethylbenzene, xylene ("BTEX"), dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), chloride, sulfate and total dissolved solids ("TDS");
- Collect and analyze groundwater samples from three (3) monitoring wells (WP-1, WP-5 and WP-14) during the fourth (4th) quarter (October through December) for BTEX, chloride, sulfate and TDS; and
- Prepare an annual report.

2005 Annual Ground Water Monitoring Report
Targa Midstream Services, L.P., Monument Gas Plant

2.0 ADDITIONAL INVESTIGATIONS

On August 4, 2005, LA personnel supervised installation of three (3) monitoring wells (WP-16, WP-17 and WP-18) southeast (down gradient) of the Facility. The wells were installed at OCD's request to determine the extent of hydrocarbon product observed in monitoring wells WP-4R, WP-12 and WP-14. Scarborough Drilling, Inc., located in Lamesa, Texas, drilled the wells from approximately 36 to 42 feet below ground surface ("bgs") using an air rotary rig. The wells were completed using threaded 2-inch schedule 40 polyvinyl chloride ("PVC") casing and twenty (20) feet of 0.010-inch factory slotted well screen.

On August 9, 2005, ground water samples were collected from wells WP-16, WP-17 and WP-18, submitted under chain-of-custody control and preservation to Environmental Lab of Texas, Inc. ("ELTI"), located in Odessa, Texas, and analyzed for BTEX using method SW-846-8021B. Benzene was reported above the State of New Mexico Water Quality Control Commission ("WQCC") human health standard of 0.01 milligrams per liter ("mg/L") in samples WP-17 (5.28 mg/L) and WP-18 (1.03 mg/L). Toluene, ethyl benzene and xylene were below the WQCC human health standards, except for sample WP-17, which reported ethyl benzene at 1.22 mg/L. The WQCC threshold for ethyl benzene is 0.75 mg/L.

On October 7, 2005 and December 12, 2005, hydrocarbon product was observed in well WP-18 at 0.04 feet and 0.06 feet, respectively. The investigation results were submitted to OCD on November 1, 2005, with recommended integration of wells WP-16, WP-17 and WP-18 into the quarterly ground water monitoring program. The recommendation was approved on February 8, 2006.

3.0 2005 GROUND WATER MONITORING

3.1 Depth to Ground Water and Hydrocarbon Product Thickness Measurements

On April 4, 2005, October 7, 2005 and December 12, 2005, depth to ground water was

2005 Annual Ground Water Monitoring Report
Targa Midstream Services, L.P., Monument Gas Plant

measured in all wells, except wells WP-3, WP-8 and WP-9. On June 14, 2005, depth to ground water was measured in all wells, except WP-2, WP-3, WP-4, WP-4R, WP-8, WP-9, WP-10, WP-11 and WP-12. Wells WP-3, WP-8 and WP-9 are corrosion (cathodic) protection wells and could not be accessed. An electronic water level meter and interface probe, which distinguishes between water and oil, was used to measure the depth to ground water and hydrocarbon product thickness. The measurements were determined at the top of the PVC well casing and recorded in a dedicated bound field notebook. The interface probe was thoroughly cleaned between uses with a solution of distilled water and laboratory-grade detergent, and rinsed with distilled water. Table 1 presents a summary of the depth to ground water measurements.

Referring to Table 1, no significant variations in depth to ground water was observed during 2005, except an increase in depth to ground water or lowering of the aquifer approximately 3.94 feet at well WP-14. Hydrocarbon product was only observed in well WP-18 on October 7, 2005 (0.04 feet) and December 12, 2005 (0.06 feet). Depth to ground water measurements from the 2nd quarter (June 14, 2005) and 4th quarter (December 12, 2005) were used to prepare ground water potentiometric surface maps, presented as Figure 3 and Figure 4, respectively.

Referring to Figure 3, on June 14, 2005, the elevation of the ground water surface on June 14, 2005, ranged from approximately 3,556.66 feet above mean sea level ("MSL") at well WP-6 (upgradient) to 3,544.93 feet above MSL at well WP-1 (downgradient). Ground water flow was from northwest to southeast at a gradient of approximately 0.015 feet per foot. Referring to Figure 4, the elevation of the ground water surface on December 12, 2005, ranged from about 3,556.46 feet above MSL at well WP-6 (upgradient) to 3,541.01 feet above MSL at well WP-16 (downgradient). Ground water flow was from northwest to southeast at a gradient of approximately 0.01 feet per foot. No significant variations in groundwater flow or gradient was observed between current or previous events.

2005 Annual Ground Water Monitoring Report
Targa Midstream Services, L.P., Monument Gas Plant

3.2 Ground Water Samples

On June 14, 2005, ground water samples were collected from wells WP-1, WP-5, WP-6, WP-7, WP-13 and WP-14. On August 9, 2005, ground water samples were collected from wells WP-16, WP-17 and WP-18, submitted under chain of custody control and preservation to ELTI and analyzed for BTEX. On December 12, 2005, ground water samples were collected from wells WP-1, WP-5 and WP-14. The samples were collected after the wells were purged of three (3) casing volumes of ground water using dedicated and disposable PVC bailers or slowly pumped using a low-flow pump and flow cell. Ground water was carefully transferred to laboratory prepared containers, which were labeled, chilled in an ice chest and delivered under chain of custody control to Environmental Lab of Texas, Inc. ("ELTI"), located in Odessa, Texas. ELTI analyzed samples from June 14, 2005, for BTEX, dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), chloride, sulfate and TDS. ELTI analyzed samples from December 12, 2005, for BTEX, chloride, sulfate and TDS. Table 2 presents a summary of the BTEX analysis. Table 3 presents a summary of the dissolved metals analysis. Table 4 presents a summary of the chloride, sulfate and TDS analysis. Appendix A presents the laboratory report.

Referring to Table 2, benzene exceeded the WQCC human health standard of 0.01 mg/L in samples collected on June 14, 2005, from wells WP-1, WP-5, WP-13 and WP-14. The benzene ranged from 0.422 mg/L (WP-14) to 3.61 mg/L (WP-1). Samples collected on August 9, 2005, from wells WP-17 (5.28 mg/L) and WP-18 (1.03 mg/L) also exceeded the WQCC human health standard for benzene. Toluene, ethyl benzene and xylene were below the WQCC human health standards in all samples, except ethyl benzene in sample WP-17 (1.22 mg/L). Figure 5 presents concentrations of dissolved benzene in ground water during the second (2nd) quarter (June 14, 2005).

Benzene exceeded the WQCC human health standard of 0.01 mg/L in samples collected on December 12, 2005, from wells WP-1, WP-5 and WP-14. The benzene ranged from 0.274 mg/L (WP-14) to 6.26 mg/L (WP-5). Toluene, ethyl benzene and xylene were below the WQCC human

2005 Annual Ground Water Monitoring Report

Targa Midstream Services, L.P., Monument Gas Plant

health standards in samples WP-1, WP-5 and WP-14, on December 12, 2005. Figure 6 presents concentrations of dissolved benzene in ground water during the fourth (4th) quarter (December 12, 2005).

Referring to Table 3, barium exceeded the WQCC human health standard of 1.0 mg/L, in sample WP-1 (12.1 mg/L) collected on June 14, 2005. Chromium exceeded the WQCC human health standard of 0.05 mg/L, in samples WP-5 (0.816 mg/L) and WP-7 (0.2 mg/L) collected on June 14, 2005. Figure 7 presents the concentrations of dissolved barium and chromium reported above the WQCC human health standards in ground water during the second (2nd) quarter (June 14, 2005).

Referring to Table 4, on June 14, 2005, the background concentrations for chloride, sulfate and TDS, as reported in ground water samples from well WP-6, were 1,100 mg/L, 1,980 mg/L and 4,670 mg/L, respectively. The WQCC domestic water quality standards for chloride, sulfate and TDS are 250 mg/L, 600 mg/L and 1000 mg/L, respectively. The sample from well WP-7 was the only samples to record concentrations of chloride (10,900 mg/L), sulfate (7,310 mg/L) and TDS (15,500 mg/L) above the background concentrations. On December 12, 2005, concentrations of chloride, sulfate and TDS in samples WP-1 and WP-5 were below the background concentrations from June 14, 2005. Figure 8 presents chloride, sulfate and TDS concentrations in ground water on June 14, 2005. Figure 9 presents chloride, sulfate and TDS concentrations in ground water on December 12, 2005.

4.0 CONCLUSIONS

1. No significant variations in depth to groundwater was observed, except well WP-14, which showed an increase in depth to ground water or lowering of the aquifer approximately 3.94 feet during 2005;
2. The groundwater flow direction and gradient remains generally to the southeast at approximately 0.010 to 0.015 feet per foot. No significant variation was noted in the

2005 Annual Ground Water Monitoring Report
Targa Midstream Services, L.P., Monument Gas Plant

direction and gradient of ground water flow;

3. Hydrocarbon product was only observed in well WP-18 on October 7, 2005 (0.04 feet) and December 12, 2005 (0.06 feet);
4. Benzene exceeded the WQCC human health standard of 0.01 mg/L in groundwater samples from wells WP-1, WP-5, WP-13 and WP-14, on June 14, 2005. The benzene ranged from 0.422 mg/L (WP-14) to 3.61 mg/L (WP-1);
5. Samples collected on August 9, 2005, from wells WP-17 (5.28 mg/L) and WP-18 (1.03 mg/L) also exceeded the WQCC human health standard for benzene;
6. Toluene, ethyl benzene and xylene were below the WQCC human health standards in all samples, except ethyl benzene in sample WP-17 (1.22 mg/L);
7. Benzene exceeded the WQCC human health standard of 0.01 mg/L in samples collected on December 12, 2005, from wells WP-1, WP-5 and WP-14. The benzene ranged from 0.274 mg/L (WP-14) to 6.26 mg/L (WP-5);
8. Toluene, ethyl benzene and xylene were below the WQCC human health standards in samples WP-1, WP-5 and WP-14, on December 12, 2005;
9. Barium exceeded the WQCC human health standard of 1.0 mg/L in sample WP-1 (12.1 mg/L) collected on June 14, 2005;
10. Chromium exceeded the WQCC human health standard of 0.05 mg/L in samples WP-5 (0.816 mg/L) and WP-7 (0.2 mg/L) collected on June 14, 2005;
11. The sample from well WP-7 was the only sample to record concentrations of chloride (10,900 mg/L), sulfate (7,310 mg/L) and TDS (15,500 mg/L) above the background concentrations of 1,100 mg/L, 1,980 mg/L and 4,670 mg/L, respectively, on June 14, 2005;
12. Concentrations of chloride, sulfate and TDS in samples WP-1 and WP-5 were below the background concentrations from June 14, 2005.

5.0 RECOMMENDATIONS

Targa will continue quarterly ground water monitoring in accordance with the modified

2005 Annual Ground Water Monitoring Report
Targa Midstream Services, L.P., Monument Gas Plant

sampling schedule and integrate wells WP-16, WP-17 and WP-18 into the monitoring and sampling schedule.

TABLES

TABLES

Table 1
Summary of Depth to Ground Water and Hydrocarbon Product Thickness Measurements
Targa Midstream Services, L.P., Monument Gas Plant (GW-025)
Lea County, New Mexico

Date	WP-1	WP-2	WP-4	WP-4R	WP-5	WP-6	WP-7	WP-10
12/27/2004	21.11 (3556.90)	27.69 (3550.08)	31.56 (3545.59)	31.32 (3547.03)	29.52 (3549.98)	27.46 (3557.90)	26.09 (3556.95)	23.40 (3556.68)
04/04/2005	24.69 (3553.32)	28.75 (3549.02)	33.05 (3544.10)	33.15 (3545.20)	29.78 (3549.72)	28.72 (3556.64)	27.35 (3555.69)	24.29 (3555.79)
05/12/2005	25.63 (3552.38)	28.75 (3549.02)	33.15 (3544.00)	33.26 (3545.09)	29.51 (3549.99)	28.71 (3556.65)	26.65 (3556.39)	24.81 (3555.27)
06/14/2005	33.08 (3544.93)	--	--	--	29.22 (3550.28)	28.70 (3556.65)	26.84 (3556.20)	--
10/07/2005	23.83 (3554.18)	28.77 (3549.00)	33.08 (3544.07)	33.23 (3545.12)	29.78 (3549.72)	28.74 (3556.62)	27.70 (3555.34)	25.11 (3554.97)
12/12/2005	25.82 (3552.19)	28.91 (3548.86)	33.15 (3544.62)	33.28 (3545.07)	30.36 (3549.14)	28.90 (3556.46)	27.87 (3555.17)	25.24 (3554.84)
Date	WP-11	WP-12	WP-13	WP-14	WP-15	WP-16	WP-17	WP-18
12/27/2004	24.56 (3556.67)	35.52 (3546.37)	24.07 (3555.58)	33.16 (3548.65)	28.91 (3553.36)	--	--	--
04/04/2005	25.41 (3555.82)	32.13 (3549.76)	23.57 (3556.08)	31.17 (3550.64)	Dry	--	--	--
05/12/2005	25.96 (3555.27)	32.07 (3549.82)	25.12 (3554.53)	32.06 (3549.75)	Dry	--	--	--
06/14/2005	--	--	26.34 (3554.22)	32.28 (3549.53)	--	--	--	--
10/07/2005	26.16 (3555.07)	33.24 (3548.65)	26.26 (3553.39)	34.47 (3547.34)	31.44 (3550.83)	34.11 (3541.72)	35.78 (3543.56)	*34.92 (0.04') (*3544.32)
12/12/2005	26.39 (3554.84)	33.69 (3548.20)	26.38 (3554.18)	35.11 (3546.70)	31.51 (3550.76)	34.32 (3541.51)	35.79 (3543.37)	*35.19 (0.06') (*3544.05)

- Notes: All measurements in feet below top of PVC well casing.
1. *: Hydrocarbon product in well and thickness in parenthesis.
 2. (3554.18) Groundwater elevation in feet above mean sea level (AMSL)
 3. --: No data available

Table 2
Summary of BTEX Concentrations in Ground Water
Targa Resources, Inc., Monument Gas Plant
Lea County, New Mexico

Monitoring Well	Quarter/Year	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
NMWWQC Standard						
			0.01	0.75	0.75	0.62
WP-1	4th / 2004	12/27/2004	1.73	<0.050	<0.050	<0.050
	2nd / 2005	06/14/2005	1.73	0.00321	0.006	0.00326
	4th / 2005	12/12/2005	1.92	<0.05	0.0179	<0.100
WP-5	4th / 2004	12/27/2004	2.74	<0.020	<0.020	<0.020
	2nd / 2005	06/14/2005	3.61	<0.020	0.0109	<0.040
	4th / 2005	12/12/2005	6.26	<0.050	0.0147	<0.100
WP-6	2nd / 2002	06/07/2002	0.021	0.004	0.060	0.014
	2nd / 2005	06/14/2005	0.00808	0.0105	0.0155	0.0344
WP-7	2nd / 2004	07/01/2004	<0.001	<0.001	<0.001	<0.001
	2nd / 2005	06/14/2005	<0.001	<0.001	<0.001	<0.002
WP-13	2nd / 2004	07/01/2004	0.586	<0.100	<0.100	<0.100
	2nd / 2005	06/14/2005	0.804	0.00721	0.064	0.01491
WP-14	4th / 2004	12/27/2004	0.199	<0.020	<0.020	<0.020
	2nd / 2005	06/14/2005	0.422	0.00367	0.0133	0.02325
	4th / 2005	12/12/2005	0.274	<0.005	<0.005	<0.010
WP-16	2nd / 2005	08/09/2005	0.00438	<0.001	<0.001	<0.002
WP-17	2nd / 2005	08/09/2005	5.28	0.0909	1.22	0.2828
WP-18	2nd / 2005	08/09/2005	1.03	0.0294	0.354	0.2329
Duplicates						
WP-1	2nd / 2005	06/14/2005	1.63	0.00256	0.00527	0.00324
WP-14	4th / 2005	12/12/2005	0.274	<0.005	<0.005	<0.010

Notes: Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas

1. mg/L:
 2. <:
 Milligrams per liter
 Below method detection limit

Table 3
Summary of Dissolved Metal Concentrations in Ground Water
Targa Resources, Inc., Monument Gas Plant
Lea County, New Mexico

Monitoring Well	Quarter/Year	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
NMW/QCC Standard			0.1	1.0	0.01	0.05	0.05	0.002	0.05	0.05
WP-1	2nd / 2004	07/01/2004	<0.005	1.44	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
	2nd / 2005	06/14/2005	0.0422	12.1	0.0052	<0.005	0.0347	<0.001	<0.004	<0.005
WP-5	2nd / 2004	07/01/2004	<0.005	1.19	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
	2nd / 2005	06/14/2005	<0.008	0.188	0.0013	0.0816	0.0421	<0.001	<0.004	<0.005
WP-6	2nd / 2004	07/01/2004	<0.008	0.185	0.002	<0.002	<0.011	<0.002	<0.004	<0.002
	2nd / 2005	06/14/2005	<0.008	0.132	<0.001	<0.005	<0.011	<0.001	<0.004	<0.005
WP-7	2nd / 2004	07/01/2004	<0.005	0.581	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
	2nd / 2005	06/14/2005	0.0401	0.0325	<0.001	0.2	0.0251	<0.001	<0.004	<0.005
WP-13	2nd / 2004	07/01/2004	<0.005	1.19	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
	2nd / 2005	06/14/2005	0.0094	0.487	<0.001	<0.005	0.0306	<0.001	<0.004	<0.005
WP-14	2nd / 2004	07/01/2004	<0.008	0.020	0.002	<0.002	<0.011	<0.002	<0.004	<0.002
	2nd / 2005	06/14/2005	0.0335	0.142	<0.001	<0.005	0.0063	<0.001	<0.004	<0.005
Duplicate										
WP-10	2nd / 2004	07/01/2004	<0.005	1.21	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-1	2nd / 2005	06/14/2005	0.0526	12.3	0.003	<0.005	0.0396	<0.001	<0.004	<0.005

Notes: Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas

1. mg/L: Milligrams per liter

2. <: Below method detection limit

Table 4
Summary of Chloride, Sulfate and TDS Concentrations in Ground Water
Targa Resources, Inc., Monument Gas Plant
Lea County, New Mexico

Monitoring Well	Quarter / Year	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
NMWQCC Standard			250	600	1000
WP-1	4th / 2004	12/27/2004	<5.00	<5.00	1,028
	2nd / 2005	06/14/2005	49.2	3.12	854
	4th / 2005	12/12/2005	23.7	14.9	698
WP-5	4th / 2004	12/27/2004	584	475	2,715
	2nd / 2005	06/14/2005	385	138	1,880
	4th / 2005	12/12/2005	1,040	206	3,430
WP-6	2nd / 2002	06/07/2002	1,600	147	4,410
	2nd / 2005	06/14/2005	1,100	1980	4,670
WP-7	2nd / 2004	07/01/2004	7,440	3270	28,500
	2nd / 2005	06/14/2005	10,900	7310	15,500
WP-13	2nd / 2004	07/01/2004	642	75.2	2,640
	2nd / 2005	06/14/2005	327	232	2,250
WP-14	4th / 2004	12/27/2004	7,740	2,380	14,900
	2nd / 2005	06/14/2005	5,470	2,510	8,910
	4th / 2005	12/12/2005	4,250	1,400	11,400
Duplicates WP-1 WP-14	2nd / 2005	06/14/2005	50.5	3.26	852
	4th / 2005	12/12/2005	4,770.0	1,590.00	10,400

Notes: Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas

1. mg/L:
2. <:
Milligrams per liter
Below method detection limit

FIGURES

1

FIGURES

SITE LOCATION

T-19-S

T-20-S

R-36-E

R-37-E

R-36-E

R-37-E

GRAPHIC SCALE IN FEET

0 2000' 4000'

FIGURE #1

LEA COUNTY, NEW MEXICO



TARGA

MONUMENT GAS PLANT

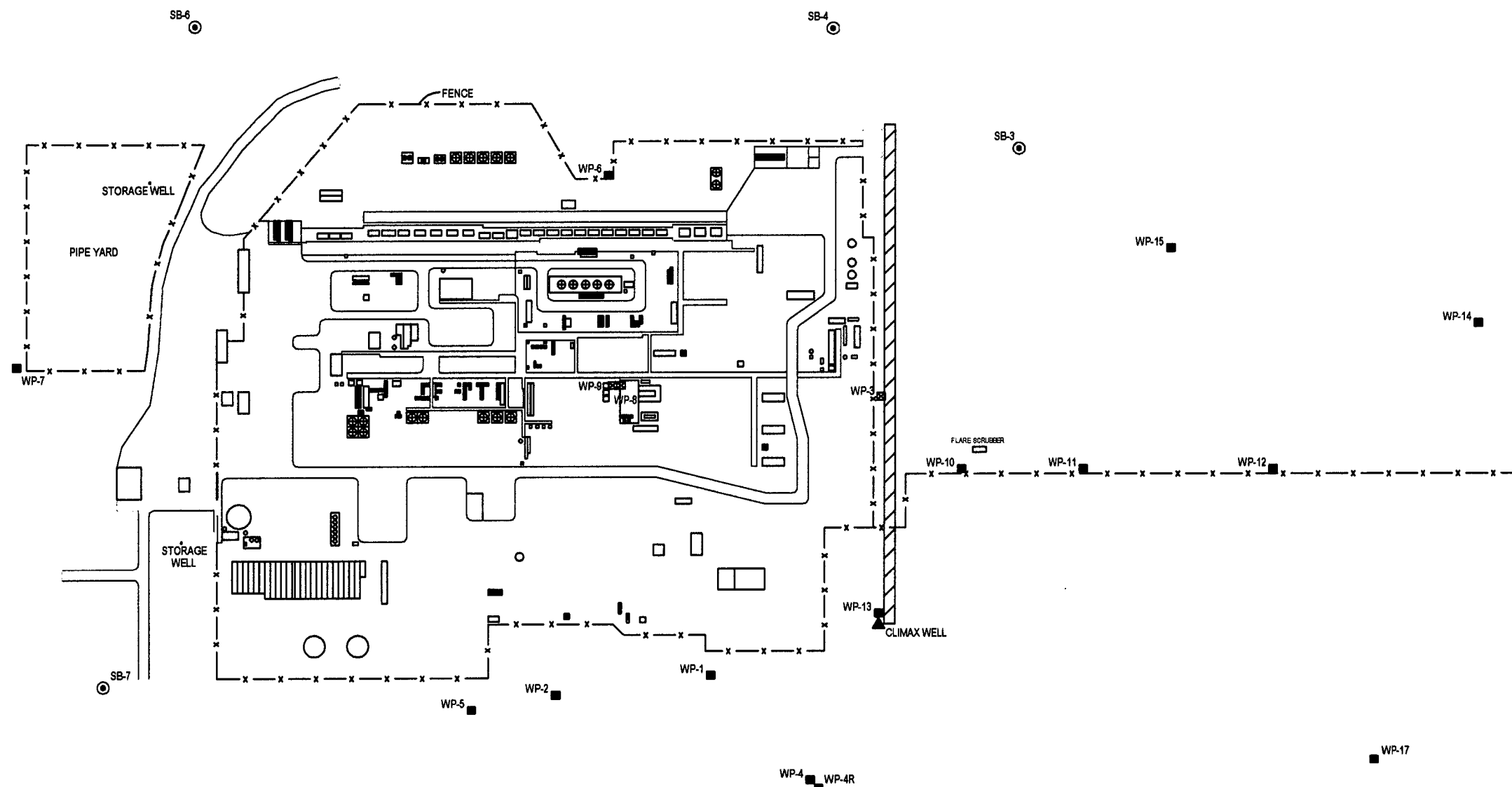
SITE LOCATION AND
TOPOGRAPHIC MAP

DATE
02-27-06

NAME: SJA

FILE: 2-0108

Laarson &
Associates, Inc.
Environmental Consultants



MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
*WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	---
*WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24

LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 - MONITORING WELL LOCATION
- WP-3 - MONITORING WELL LOCATION CONVERTED TO CATHOTIC PROTECTION WELL

GRAPHIC SCALE IN FEET

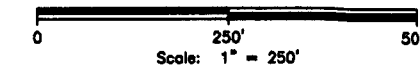


FIGURE #2

LEA COUNTY, NEW MEXICO

TARGA
MONUMENT GAS PLANT

FACILITY DRAWING

DATE
02-27-06
NAME: SJA
FILE: 2-0108

Arson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24

LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 3544.93 - MONITORING WELL LOCATION AND GROUNDWATER ELEVATION, FEET AMSL, 06/14/05
- WP-3 N/D - MONITORING WELL LOCATION CONVERTED TO CATHODIC PROTECTION WELL
- * - ELEVATION CORRECTED FOR FREE PRODUCT THICKNESS ASSUMING 0.75 SPECIFIC GRAVITY
- GROUNDWATER FLOW DIRECTION
- 3550 - CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION, FEET AMSL, 06/14/05

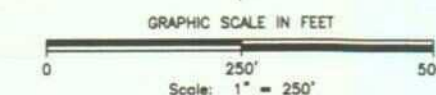
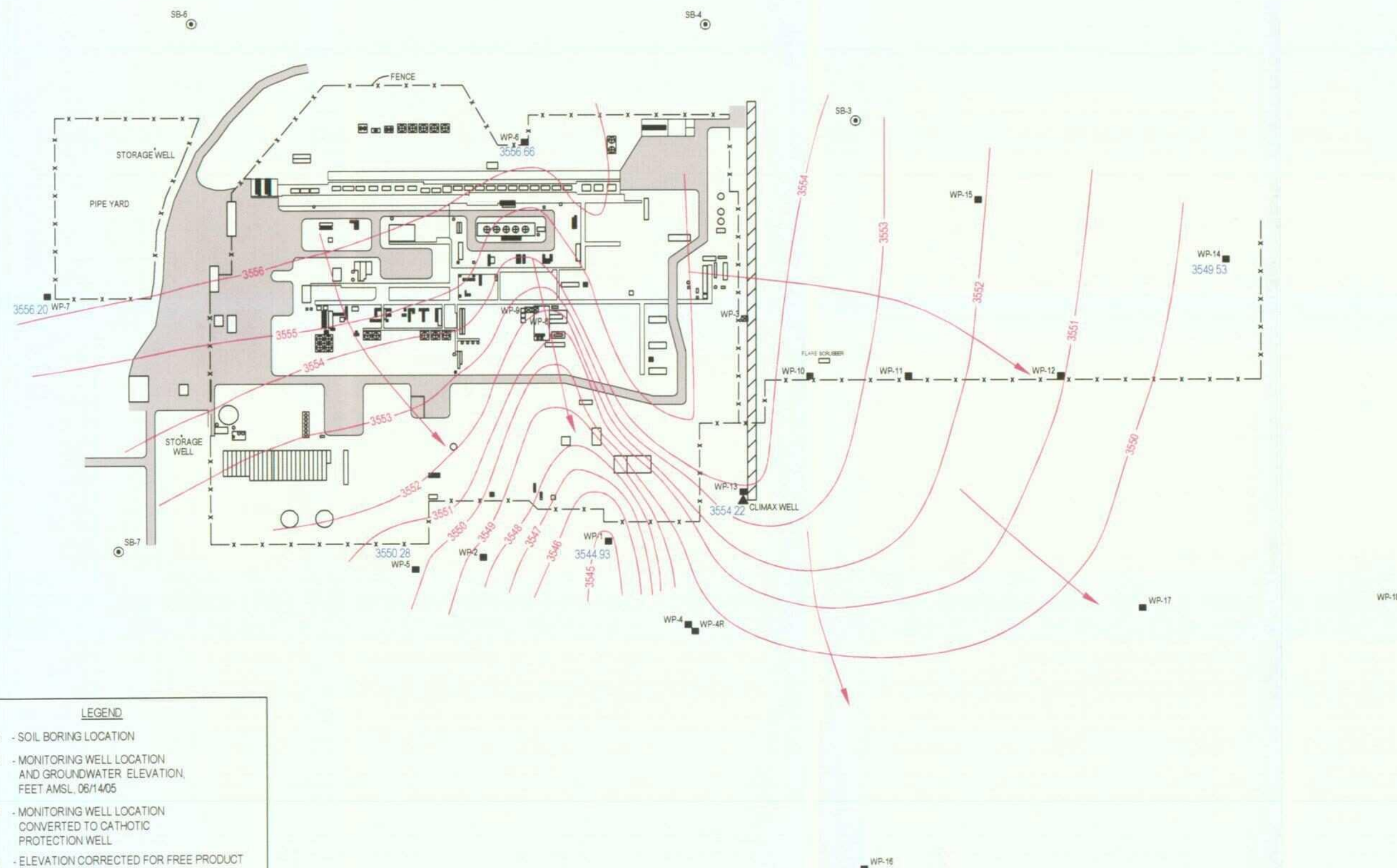


FIGURE #3

LEA COUNTY, NEW MEXICO



MONUMENT GAS PLANT

GROUNDWATER POTENTIOMETRIC SURFACE MAP
JUNE 14, 2005

DATE
01-27-06

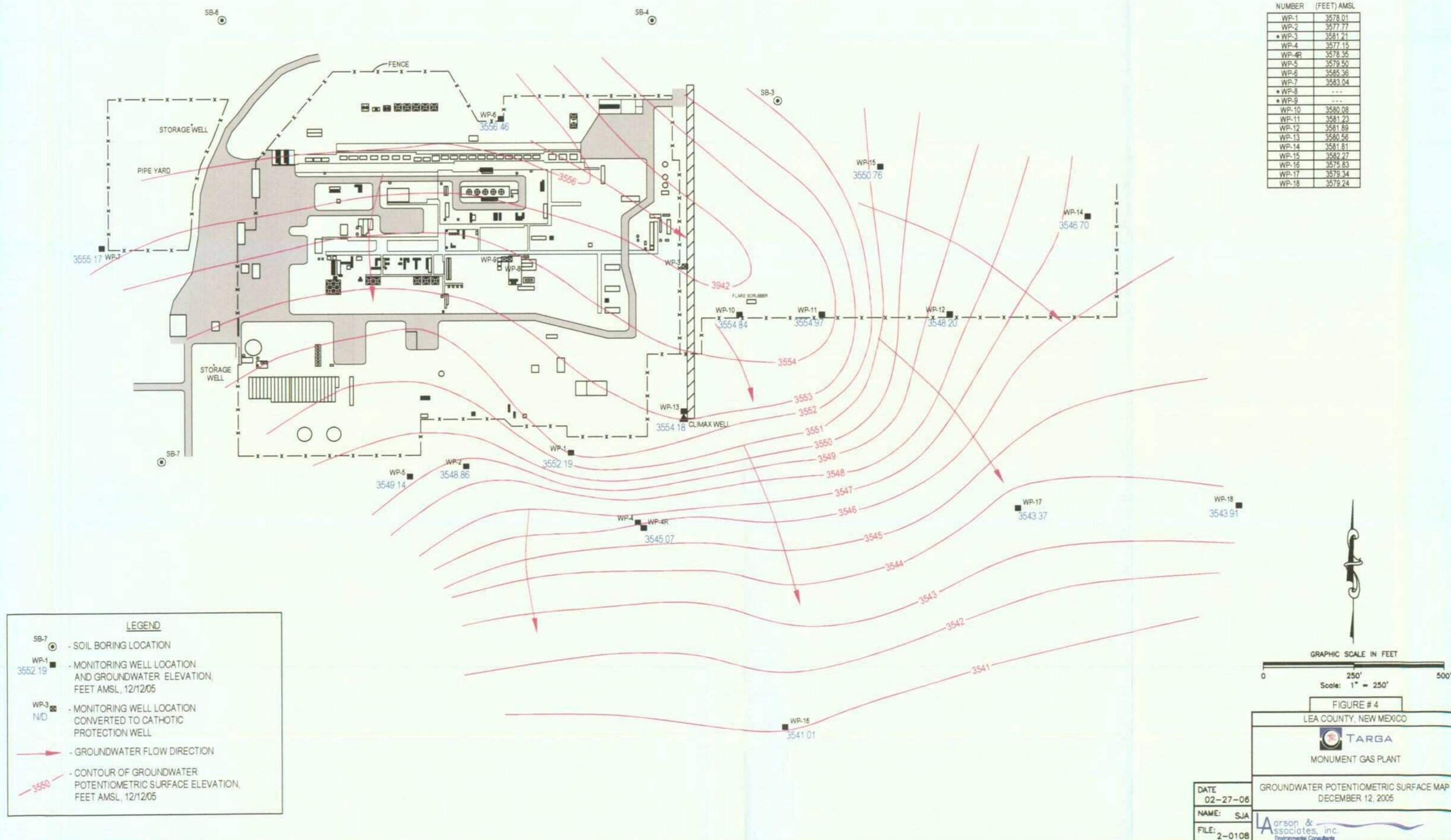
NAME: SJA

FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

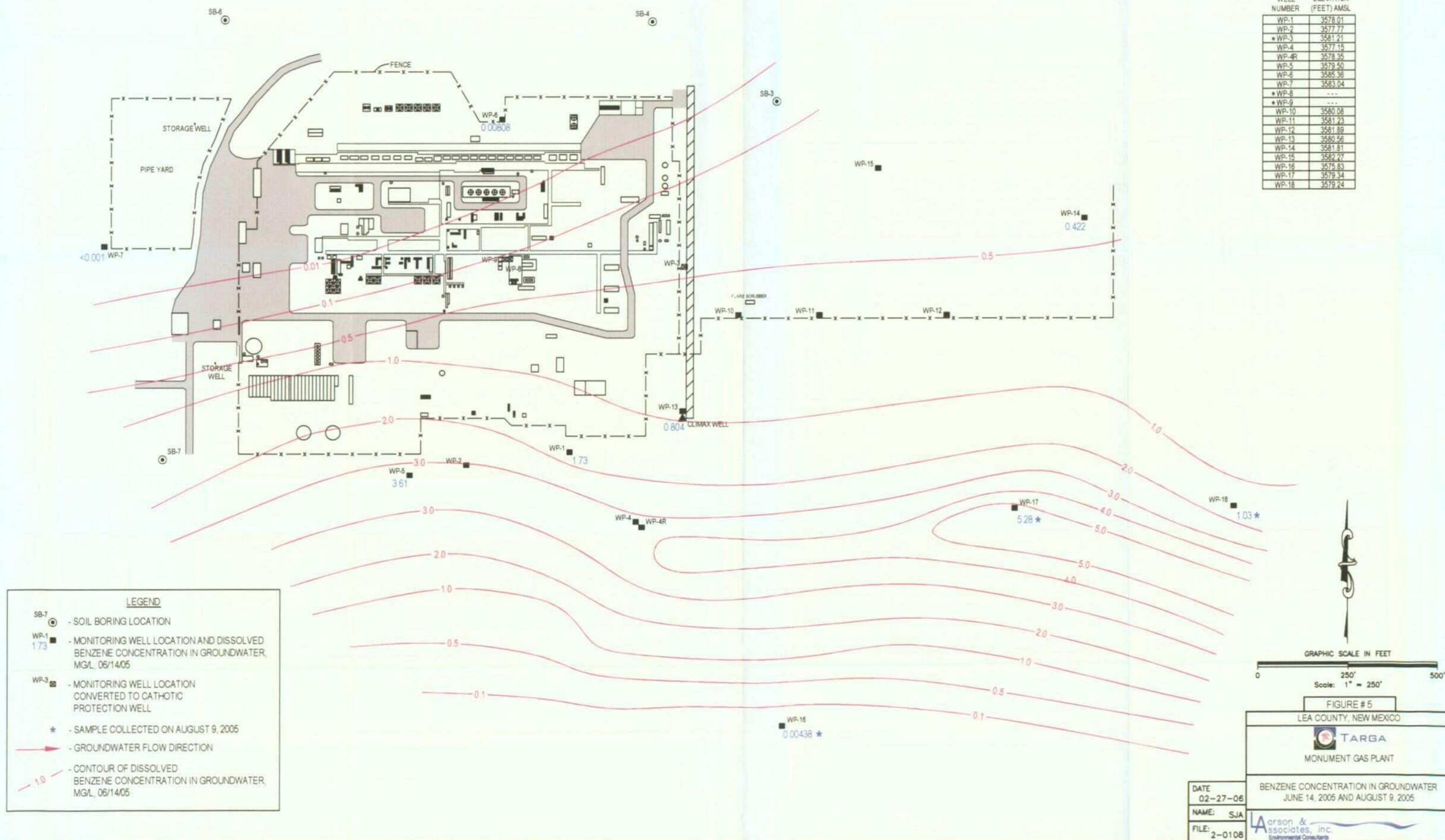
MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3565.36
WP-7	3563.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24



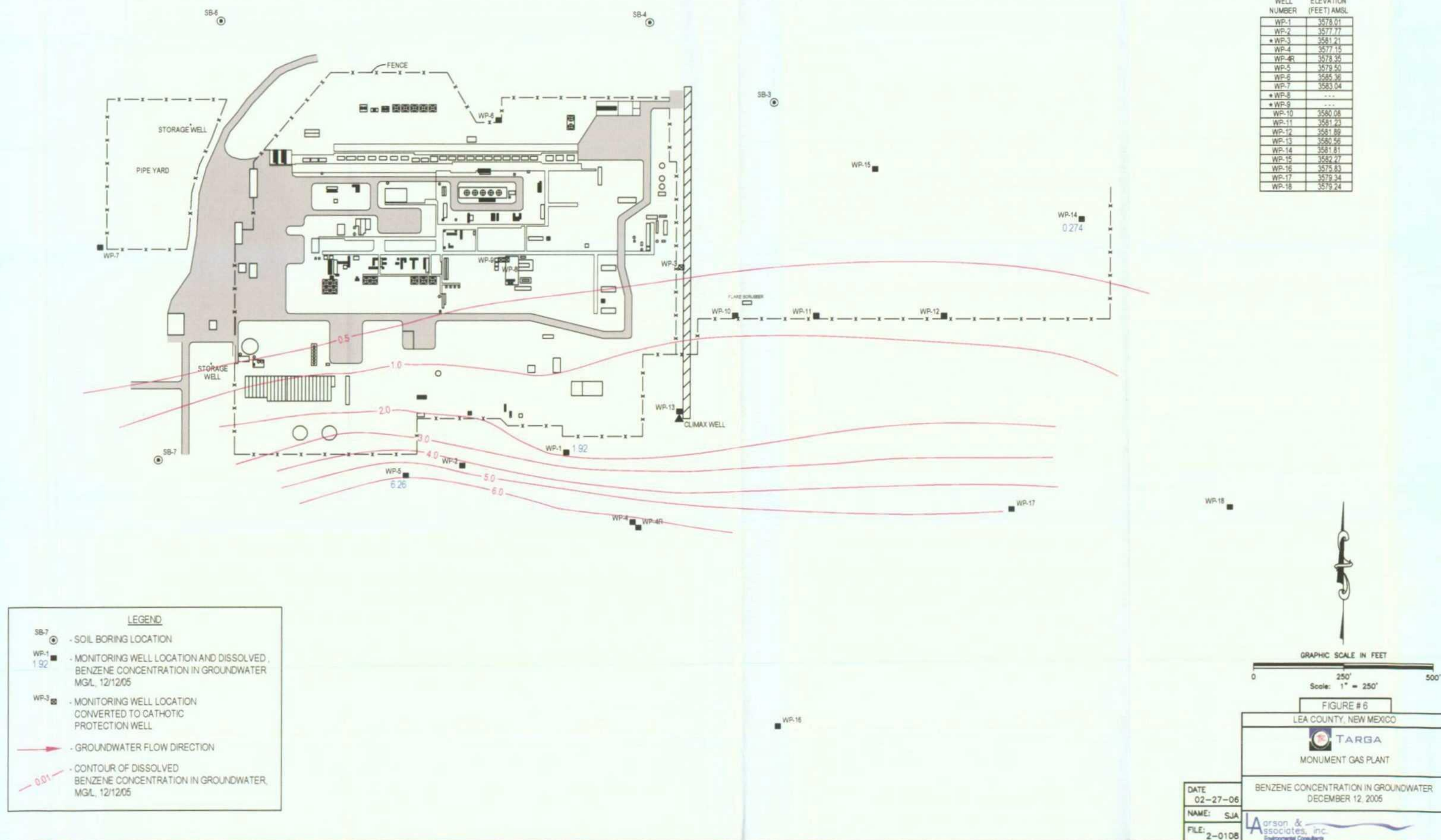
MONITORING WELL DATA

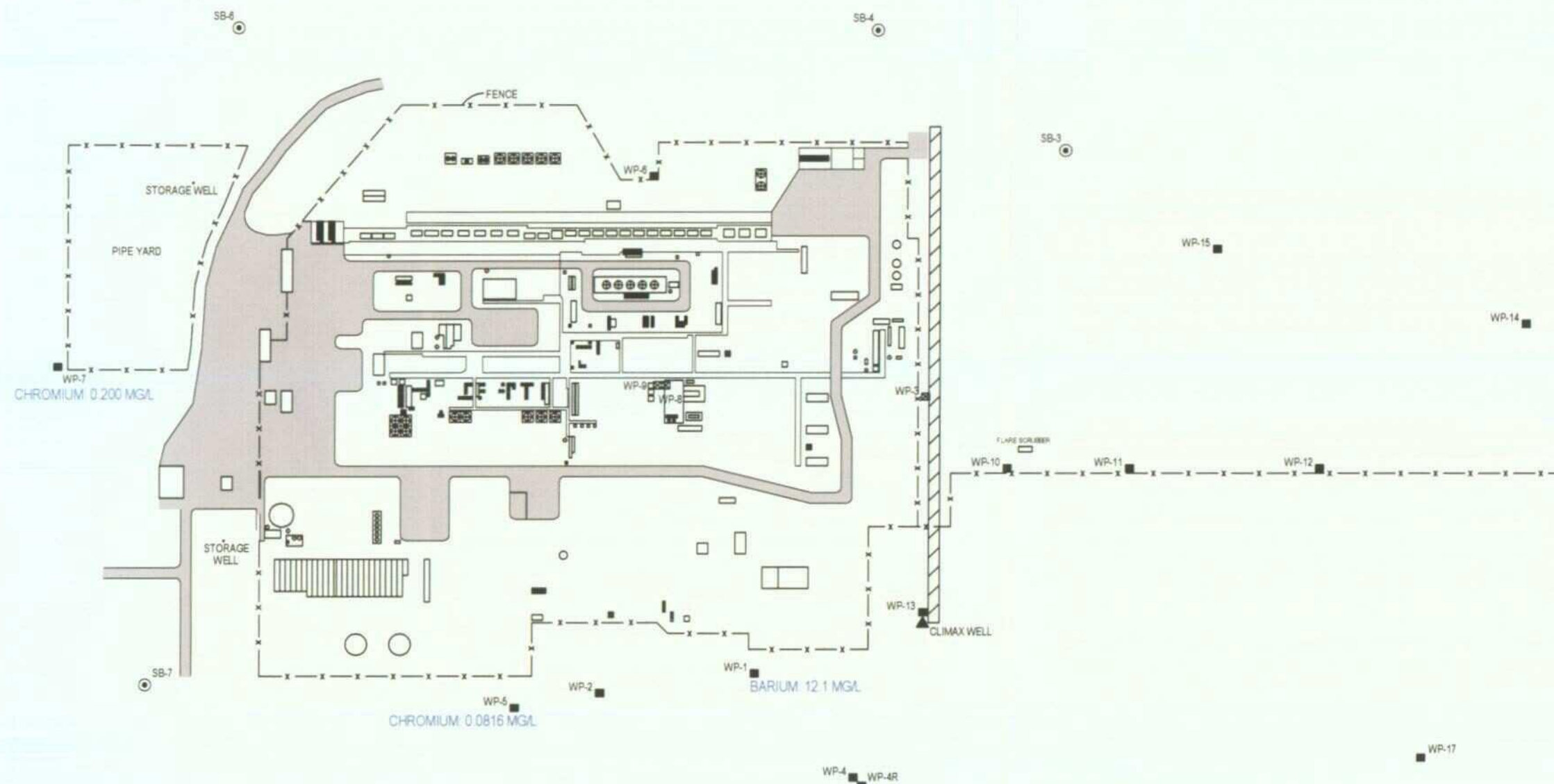
WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24



MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24





MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24

LEGEND	
SB-7	SOIL BORING LOCATION
WP-1	MONITORING WELL LOCATION, AND DISSOLVED METAL CONCENTRATIONS IN GROUNDWATER, MG/L, 06/14/05
WP-3	MONITORING WELL LOCATION CONVERTED TO CATHOTIC PROTECTION WELL

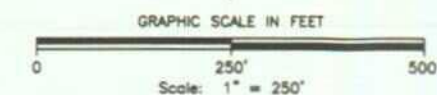


FIGURE #7

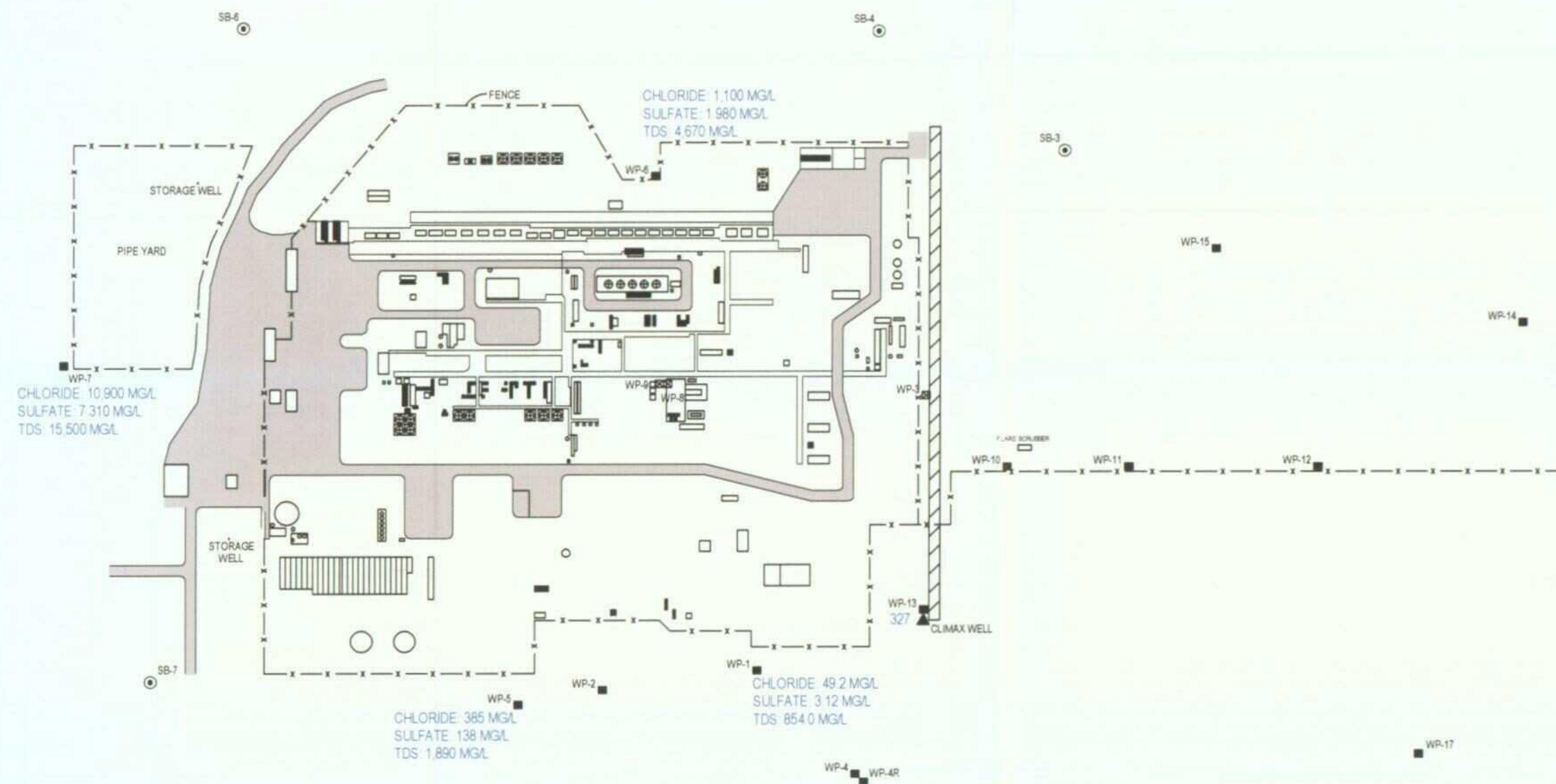
LEA COUNTY, NEW MEXICO



CONCENTRATION OF DISSOLVED METALS IN GROUNDWATER
DECEMBER 12, 2005

DATE
02-27-06
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants



MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24

LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 - MONITORING WELL LOCATION AND CONCENTRATION CHLORIDE, SULFATE AND TDS IN GROUNDWATER, MG/L, 06/14/05
- WP-3 - MONITORING WELL LOCATION CONVERTED TO CATHOTIC PROTECTION WELL

GRAPHIC SCALE IN FEET

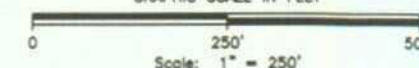


FIGURE #8

LEA COUNTY, NEW MEXICO



MONUMENT GAS PLANT

CONCENTRATION OF CHLORIDE, SULFATE, AND TDS IN GROUNDWATER
JUNE 14, 2005

DATE
02-27-06
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
WP-3	3581.21
WP-4	3577.15
WP-4R	3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
WP-8	---
WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3580.56
WP-14	3581.81
WP-15	3582.27
WP-16	3575.83
WP-17	3579.34
WP-18	3579.24

LEGEND	
SB-7	SOIL BORING LOCATION
WP-1	MONITORING WELL LOCATION AND CHLORIDE, SULFATE AND TDS CONCENTRATION IN GROUNDWATER, MGL, 12/12/05
WP-3	MONITORING WELL LOCATION CONVERTED TO CATHODIC PROTECTION WELL

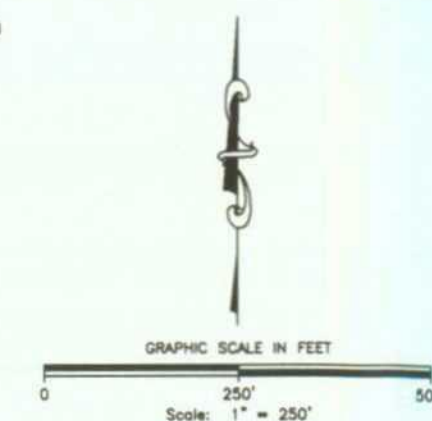
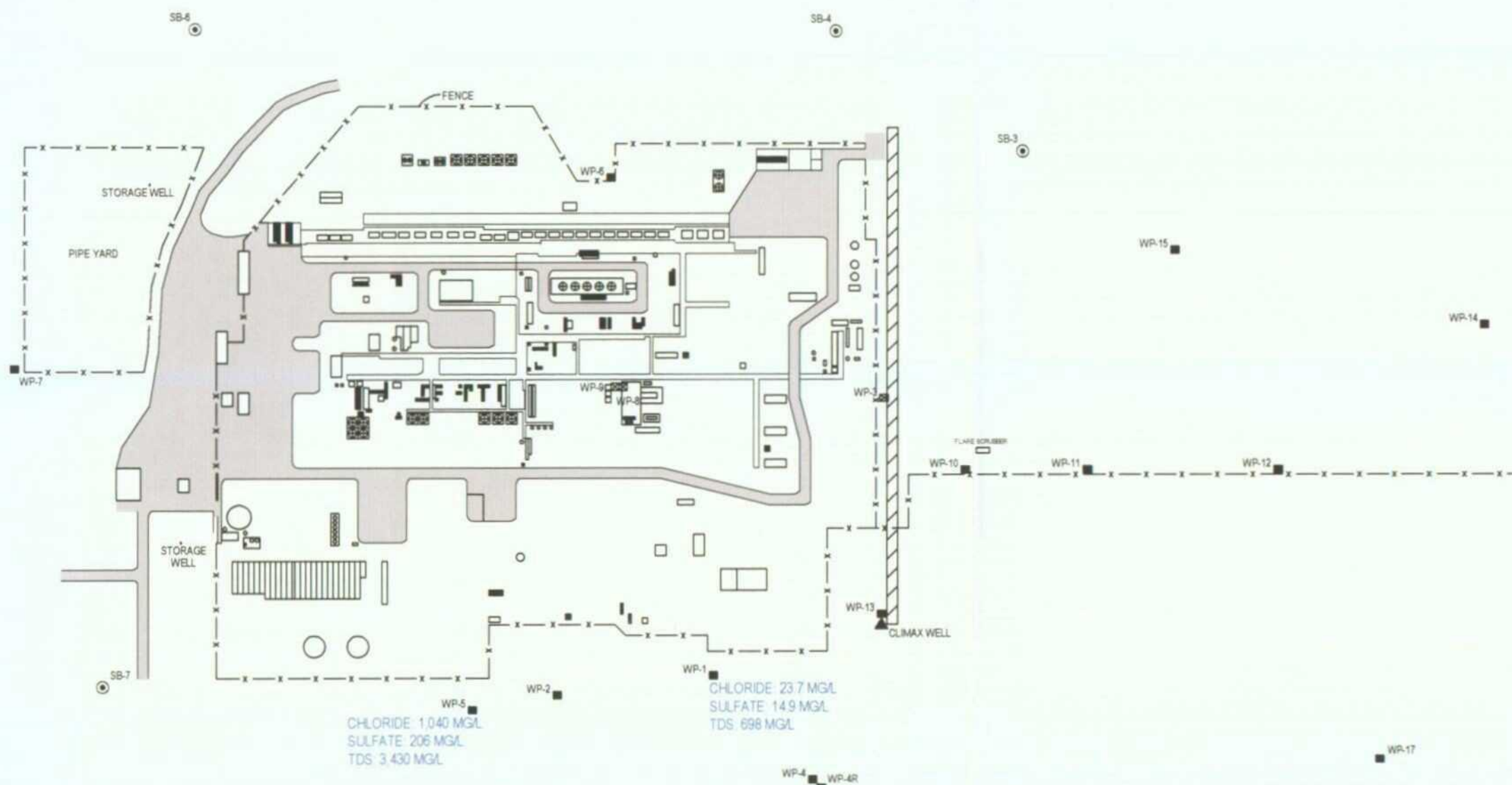


FIGURE # 9
LEA COUNTY, NEW MEXICO



CONCENTRATIONS OF CHLORIDE, SULFATE, AND TDS IN GROUNDWATER, DECEMBER 12, 2005

DATE
02-27-06
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

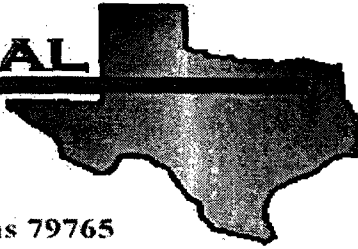
APPENDICES

APPENDIX A

APPENDIX A

Laboratory Reports

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Dynegey Monument GWM

Project Number: 2-0108

Location: None Given

Lab Order Number: 5F15001

Report Date: 06/28/05

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-1	5F15001-01	Water	06/14/05 11:25	06/15/05 07:30
WP-13	5F15001-02	Water	06/14/05 12:10	06/15/05 07:30
WP-14	5F15001-03	Water	06/14/05 12:40	06/15/05 07:30
WP-6	5F15001-04	Water	06/14/05 13:45	06/15/05 07:30
WP-7	5F15001-05	Water	06/14/05 14:15	06/15/05 07:30
WP-5	5F15001-06	Water	06/14/05 14:55	06/15/05 07:30
DUP1	5F15001-07	Water	06/14/05 00:00	06/15/05 07:30
Trip Blank	5F15001-08	Water	06/14/05 00:00	06/15/05 07:30

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (5F15001-01) Water									
Benzene	1.73	0.0100	mg/L	10	EF51702	06/20/05	06/21/05	EPA 8021B	
Toluene	J [0.00321]	0.0100	"	"	"	"	"	"	
Ethylbenzene	J [0.00600]	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00326]	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		152 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	
WP-13 (5F15001-02) Water									
Benzene	0.804	0.0100	mg/L	10	EF51702	06/20/05	06/21/05	EPA 8021B	
Toluene	J [0.00721]	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.0640	0.0100	"	"	"	"	"	"	
Xylene (p/m)	0.0108	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00411]	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		122 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		83.0 %	80-120		"	"	"	"	
WP-14 (5F15001-03) Water									
Benzene	0.422	0.00100	mg/L	1	EF51702	06/20/05	06/21/05	EPA 8021B	
Toluene	0.00367	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0133	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0167	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00655	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		154 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		128 %	80-120		"	"	"	"	S-04
WP-6 (5F15001-04) Water									
Benzene	0.00808	0.00100	mg/L	1	EF51702	06/20/05	06/21/05	EPA 8021B	
Toluene	0.0105	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0155	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0140	0.00100	"	"	"	"	"	"	
Xylene (o)	0.0204	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		180 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		112 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-7 (5F15001-05) Water

Benzene	ND	0.00100	mg/L	1	EF51702	06/20/05	06/20/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	

WP-5 (5F15001-06) Water

Benzene	3.61	0.0200	mg/L	20	EF51702	06/20/05	06/21/05	EPA 8021B	
Toluene	ND	0.0200	"	"	"	"	"	"	
Ethylbenzene	J [0.0109]	0.0200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0200	"	"	"	"	"	"	
Xylene (o)	ND	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-120		"	"	"	"	

DUP1 (5F15001-07) Water

Benzene	1.63	0.0100	mg/L	10	EF51702	06/20/05	06/20/05	EPA 8021B	
Toluene	J [0.00256]	0.0100	"	"	"	"	"	"	
Ethylbenzene	J [0.00527]	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00324]	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		126 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	

Trip Blank (5F15001-08) Water

Benzene	ND	0.00100	mg/L	1	EF51702	06/20/05	06/20/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (5F15001-01) Water									
Chloride	49.2	0.500	mg/L	1	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	854	5.00	"	"	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	3.12	0.500	"	"	EF51509	06/15/05	06/15/05	EPA 300.0	
WP-13 (5F15001-02) Water									
Chloride	327	25.0	mg/L	50	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	2250	5.00	"	1	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	232	25.0	"	50	EF51509	06/15/05	06/15/05	EPA 300.0	
WP-14 (5F15001-03) Water									
Chloride	5470	500	mg/L	1000	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	8910	10.0	"	2	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	2510	500	"	1000	EF51509	06/15/05	06/15/05	EPA 300.0	
WP-6 (5F15001-04) Water									
Chloride	1100	25.0	mg/L	50	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	4670	5.00	"	1	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	1980	25.0	"	50	EF51509	06/15/05	06/15/05	EPA 300.0	
WP-7 (5F15001-05) Water									
Chloride	10900	1250	mg/L	2500	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	15500	20.0	"	4	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	7310	1250	"	2500	EF51509	06/15/05	06/15/05	EPA 300.0	
WP-5 (5F15001-06) Water									
Chloride	385	12.5	mg/L	25	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	1880	5.00	"	1	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	138	12.5	"	25	EF51509	06/15/05	06/15/05	EPA 300.0	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456
Reported:
06/28/05 10:11

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP1 (5F15001-07) Water									
Chloride	50.5	0.500	mg/L	1	EF51509	06/15/05	06/15/05	EPA 300.0	
Total Dissolved Solids	852	5.00	"	"	EF51604	06/15/05	06/16/05	EPA 160.1	
Sulfate	3.26	0.500	"	"	EF51509	06/15/05	06/15/05	EPA 300.0	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (5F15001-01) Water									
Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	0.0422	0.00800	"	"	"	"	"	"	
Barium	12.1	0.0100	"	10	"	"	"	6010B	
Cadmium	0.00520	0.00100	"	1	"	"	"	EPA 6010B	
Chromium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	0.0347	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

WP-13 (5F15001-02) Water

Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	0.00940	0.00800	"	"	"	"	"	"	
Barium	0.487	0.00100	"	"	"	"	"	6010B	
Cadmium	ND	0.00100	"	"	"	"	"	EPA 6010B	
Chromium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	0.0306	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

WP-14 (5F15001-03) Water

Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	0.0335	0.00800	"	"	"	"	"	"	
Barium	0.142	0.00100	"	"	"	"	"	6010B	
Cadmium	ND	0.00100	"	"	"	"	"	EPA 6010B	
Chromium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	J [0.00630]	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	J
Selenium	ND	0.00400	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 6 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-6 (SF15001-04) Water									
Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	ND	0.00800	"	"	"	"	"	"	
Barium	0.132	0.00100	"	"	"	"	"	6010B	
Cadmium	ND	0.00100	"	"	"	"	"	EPA 6010B	
Chromium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	ND	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

WP-7 (SF15001-05) Water

Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	0.0401	0.00800	"	"	"	"	"	"	
Barium	0.0325	0.00100	"	"	"	"	"	6010B	
Cadmium	ND	0.00100	"	"	"	"	"	EPA 6010B	
Chromium	0.200	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	0.0251	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

WP-5 (SF15001-06) Water

Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	ND	0.00800	"	"	"	"	"	"	
Barium	0.188	0.00100	"	"	"	"	"	6010B	
Cadmium	0.00130	0.00100	"	"	"	"	"	EPA 6010B	
Chromium	0.0816	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	0.0421	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 7 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP1 (5F15001-07) Water									
Silver	ND	0.00500	mg/L	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Arsenic	0.0526	0.00800	"	"	"	"	"	"	
Barium	12.3	0.0100	"	10	"	"	"	6010B	
Cadmium	0.00300	0.00100	"	1	"	"	"	EPA 6010B	
Chromium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.00100	"	2	EF51511	06/15/05	06/15/05	EPA 7470A	
Lead	0.0396	0.0110	"	1	EF51512	06/15/05	06/15/05	EPA 6010B	
Selenium	ND	0.00400	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 8 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF51702 - EPA 5030C (GC)

Blank (EF51702-BLK1)

Prepared & Analyzed: 06/20/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	21.1		ug/l	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	17.2		"	20.0		86.0	80-120			

LCS (EF51702-BS1)

Prepared & Analyzed: 06/20/05

Benzene	104		ug/l	100		104	80-120			
Toluene	109		"	100		109	80-120			
Ethylbenzene	109		"	100		109	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	92.5		"	100		92.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.9		"	20.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	21.2		"	20.0		106	80-120			

LCS Dup (EF51702-BSD1)

Prepared & Analyzed: 06/20/05

Benzene	101		ug/l	100		101	80-120	2.93	20	
Toluene	109		"	100		109	80-120	0.00	20	
Ethylbenzene	102		"	100		102	80-120	6.64	20	
Xylene (p/m)	202		"	200		101	80-120	0.00	20	
Xylene (o)	90.4		"	100		90.4	80-120	2.30	20	
Surrogate: a,a,a-Trifluorotoluene	19.3		"	20.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.1		"	20.0		100	80-120			

Calibration Check (EF51702-CCV1)

Prepared & Analyzed: 06/20/05

Benzene	93.9		ug/l	100		93.9	80-120			
Toluene	97.5		"	100		97.5	80-120			
Ethylbenzene	89.6		"	100		89.6	80-120			
Xylene (p/m)	178		"	200		89.0	80-120			
Xylene (o)	85.9		"	100		85.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.0		"	20.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.0		"	20.0		100	80-120			

Environmental Lab of Texas

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Page 9 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF51702 - EPA 5030C (GC)

Matrix Spike (EF51702-MS1)

Source: 5F15001-08

Prepared: 06/20/05 Analyzed: 06/21/05

Benzene	99.5		ug/l	100	ND	99.5	80-120			
Toluene	102		"	100	ND	102	80-120			
Ethylbenzene	96.6		"	100	ND	96.6	80-120			
Xylene (p/m)	189		"	200	ND	94.5	80-120			
Xylene (o)	86.5		"	100	ND	86.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.3		"	20.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	21.1		"	20.0		106	80-120			

Environmental Lab of Texas

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Page 10 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynegey Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF51509 - General Preparation (WetChem)

Blank (EF51509-BLK1)

Prepared & Analyzed: 06/15/05

Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

LCS (EF51509-BS1)

Prepared & Analyzed: 06/15/05

Sulfate	9.97		mg/L	10.0		99.7	80-120			
Chloride	10.9		"	10.0		109	80-120			

Calibration Check (EF51509-CCV1)

Prepared & Analyzed: 06/15/05

Sulfate	10.4		mg/L	10.0		104	80-120			
Chloride	11.4		"	10.0		114	80-120			

Duplicate (EF51509-DUP1)

Source: 5F15001-01

Prepared & Analyzed: 06/15/05

Chloride	50.7	0.500	mg/L		49.2			3.00	20	
Sulfate	3.80	0.500	"		3.12			19.7	20	

Batch EF51604 - Filtration Preparation

Blank (EF51604-BLK1)

Prepared: 06/15/05 Analyzed: 06/16/05

Total Dissolved Solids	ND	5.00	mg/L							
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Duplicate (EF51604-DUP1)

Source: 5F15001-05

Prepared: 06/15/05 Analyzed: 06/16/05

Total Dissolved Solids	15500	20.0	mg/L		15500			0.00	20	
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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF51511 - EPA 7470A

Blank (EF51511-BLK1)

Prepared & Analyzed: 06/15/05

Mercury	ND	0.00100	mg/L
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LCS (EF51511-BS1)

Prepared & Analyzed: 06/15/05

Mercury	0.00190	0.000500	mg/L	0.00200	95.0	85-115
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Calibration Check (EF51511-CCV1)

Prepared & Analyzed: 06/15/05

Mercury	0.000900		mg/L	0.00100	90.0	90-110
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Matrix Spike (EF51511-MS1)

Source: 5F15001-01

Prepared & Analyzed: 06/15/05

Mercury	0.00190	0.000500	mg/L	0.00200	ND	95.0	75-125
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Matrix Spike Dup (EF51511-MSD1)

Source: 5F15001-01

Prepared & Analyzed: 06/15/05

Mercury	0.00196	0.000500	mg/L	0.00200	ND	98.0	75-125	3.11	20
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Batch EF51512 - EPA 3005A

Blank (EF51512-BLK1)

Prepared & Analyzed: 06/15/05

Silver	ND	0.00500	mg/L
Arsenic	ND	0.00800	"
Barium	ND	0.00100	"
Cadmium	ND	0.00100	"
Chromium	ND	0.00500	"
Lead	ND	0.0110	"
Selenium	ND	0.00400	"

LCS (EF51512-BS1)

Prepared & Analyzed: 06/15/05

Cadmium	0.221		mg/L	0.200	110	85-115
Selenium	0.357		"	0.400	89.2	85-115
Chromium	0.230		"	0.200	115	85-115
Barium	0.224		"	0.200	112	85-115
Arsenic	0.834		"	0.800	104	85-115
Silver	0.0932		"	0.100	93.2	85-115
Lead	0.959		"	1.10	87.2	85-115

Environmental Lab of Texas

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Page 12 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF51512 - EPA 3005A

LCS Dup (EF51512-BSD1)

Prepared & Analyzed: 06/15/05

Lead	1.01		mg/L	1.10		91.8	85-115	5.18	20	
Silver	0.0974		"	0.100		97.4	85-115	4.41	20	
Arsenic	0.818		"	0.800		102	85-115	1.94	20	
Barium	0.225		"	0.200		112	85-115	0.445	20	
Cadmium	0.217		"	0.200		108	85-115	1.83	20	
Chromium	0.222		"	0.200		111	85-115	3.54	20	
Selenium	0.393		"	0.400		98.2	85-115	9.60	20	

Calibration Check (EF51512-CCV1)

Prepared & Analyzed: 06/15/05

Chromium	0.977		mg/L	1.00		97.7	90-110			
Silver	0.523		"	0.500		105	90-110			
Arsenic	1.06		"	1.00		106	90-110			
Cadmium	0.927		"	1.00		92.7	90-110			
Lead	0.947		"	1.00		94.7	90-110			
Selenium	1.02		"	1.00		102	90-110			
Barium	0.970		"	1.00		97.0	90-110			

Matrix Spike (EF51512-MS1)

Source: 5F15001-01

Prepared & Analyzed: 06/15/05

Silver	0.201		mg/L	0.100	ND	201	75-125			PS-1
Arsenic	1.29		"	0.800	0.0422	156	75-125			PS-1
Barium	12.7		"	0.200	12.1	300	75-125			PS-1
Cadmium	0.269		"	0.200	0.00520	132	75-125			PS-1
Chromium	0.238		"	0.200	ND	119	75-125			
Lead	1.12		"	1.10	0.0347	98.7	75-125			
Selenium	0.371		"	0.400	ND	92.8	75-125			

Post Spike (EF51512-PS1)

Source: 5F15001-01

Prepared: 06/15/05 Analyzed: 06/28/05

Silver	0.241		mg/L	0.100	ND	241	85-115			PS-1
Arsenic	1.46		"	0.800	0.0422	177	85-115			PS-1
Barium	22.4		"	0.200	12.1	5150	75-125			PS-1
Cadmium	0.330		"	0.200	0.00520	162	85-115			PS-1
Chromium	0.329		"	0.200	ND	164	85-115			PS-1
Selenium	0.483		"	0.400	ND	121	85-115			PS-1
Lead	1.46		"	1.10	0.0347	130	75-125			PS-1

Environmental Lab of Texas

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Page 13 of 14

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dynege Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
06/28/05 10:11

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

PS-1 Matix spike recoveries were outside method and/or historical control limits due to matrix interference. Interference was confirmed by similar results from a post matrix spike.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Raland K Tuttle Date: 6-28-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 14 of 14

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Dynegy

Date/Time: 6/15/05 8:15

Order #: SF15001

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	☒ Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	☒ Yes	No	
Sample Instructions complete on Chain of Custody?	☒ Yes	No	
Chain of Custody signed when relinquished and received?	☒ Yes	No	
Chain of custody agrees with sample label(s)	☒ Yes	No	
Container labels legible and intact?	☒ Yes	No	
Sample Matrix and properties same as on chain of custody?	☒ Yes	No	
Samples in proper container/bottle?	☒ Yes	No	
Samples properly preserved?	☒ Yes	No	
Sample bottles intact?	☒ Yes	No	
Preservations documented on Chain of Custody?	☒ Yes	No	
Containers documented on Chain of Custody?	☒ Yes	No	
Sufficient sample amount for indicated test?	☒ Yes	No	
All samples received within sufficient hold time?	☒ Yes	No	
VOC samples have zero headspace?	☒ Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

CHAIN—OF—CUSTODY RECORD

LA arson & 
ssociates, Inc. Fax: 432-687-0456
Environmental Consultants 432-687-0901

507 N. Marienfeld, Ste. 202 • Midland, TX 79701

REMARKS
(I.E., FILTERED, UNFILTERED,
PRESERVED, UNPRESERVED,
GRAB COMPOSITE)

NUMBER
(LAB USE ONLY)

-01	Unpaved, TRS, Suptate = 1 belt
-02	Mekala = 1 belt
-03	BATED = 2 UCA
-04	4 sample only
-05	etc
-06	AA 6-15-04
-07	
-08	3-4 years UCA for Trip Bkunk

-08	2-4pm VHA for Trip Bank
-----	-------------------------

Containers labeled - no seal

Trip blanks - sealed & labeled

RECEIVED BY: (Signature) *[Signature]*
DATE: 6-13-73
TIME: 7:30

EX BUS AIRBILL #:
AND DELIVERED UPS OTHER:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE TYPE:

SITE MANAGER:

Cindy Crain

PROJECT NAME:

Monument Gwm

PAGE 1 OF 1

SAMPLE IDENTIFICATION

DATE	TIME	WATER	SOIL
------	------	-------	------

OTHER

1/4/05	1125	✓	WP-1
	1210	✓	WP-13
	1240	✓	WP-14
	1345	✓	WP-6
	1415	✓	WP-7
	1455	✓	WP-5

DUP 1

TRIP BLANK

SAMPLED BY: Signature) *[Signature]*
DATE: 6/14/05
TIME: 1500

REINQUISHED BY: (Signature)

RECEIVED BY: (Signature)

DATE: _____
TIME: _____

TURNAROUND TIME NEEDED

Normal

RECEIVED BY: (Signature)

RECEIVING ENDORSEMENT: _____

ADDRESS: _____

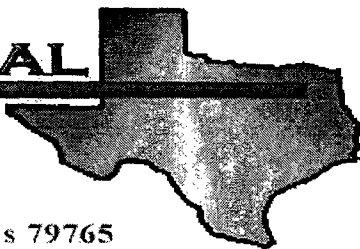
CITY: _____ STATE: _____ ZIP: _____

DATE: _____ TIME: _____

1 A CONTACT PERSON:

SAMPLE CONDITION WHEN RECEIVED: *upc - broken + damaged intent PA 1500*

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Targa Midstream/ Monument GWM

Project Number: 2-0108

Location: None Given

Lab Order Number: 5L13001

Report Date: 12/21/05

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/21/05 08:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-5	5L13001-01	Water	12/12/05 12:27	12/13/05 08:30
WP-14	5L13001-02	Water	12/12/05 13:54	12/13/05 08:30
WP-1	5L13001-03	Water	12/12/05 15:15	12/13/05 08:30
DUP	5L13001-04	Water	12/12/05 00:00	12/13/05 08:30

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456
Reported:
12/21/05 08:46

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-5 (5L13001-01) Water									
Benzene	6.26	0.0500	mg/L	50	EL51206	12/13/05	12/15/05	EPA 8021B	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	J [0.0147]	0.0500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0500	"	"	"	"	"	"	
Xylene (o)	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	80-120		"	"	"	"	
WP-14 (5L13001-02) Water									
Benzene	0.274	0.00500	mg/L	5	EL51206	12/13/05	12/15/05	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
WP-1 (5L13001-03) Water									
Benzene	1.92	0.0500	mg/L	50	EL51206	12/13/05	12/15/05	EPA 8021B	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	J [0.0179]	0.0500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0500	"	"	"	"	"	"	
Xylene (o)	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	80-120		"	"	"	"	
DUP (5L13001-04) Water									
Benzene	0.274	0.00500	mg/L	5	EL51206	12/13/05	12/15/05	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-120		"	"	"	"	

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Page 2 of 7

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/21/05 08:46

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-5 (5L13001-01) Water									
Chloride	1040	25.0	mg/L	50	EL51912	12/15/05	12/19/05	EPA 300.0	
Total Dissolved Solids	3430	5.00	"	1	EL51611	12/14/05	12/15/05	EPA 160.1	
Sulfate	206	25.0	"	50	EL51912	12/15/05	12/19/05	EPA 300.0	
WP-14 (5L13001-02) Water									
Chloride	4250	100	mg/L	200	EL51912	12/15/05	12/19/05	EPA 300.0	
Total Dissolved Solids	11400	5.00	"	1	EL51611	12/14/05	12/15/05	EPA 160.1	
Sulfate	1400	100	"	200	EL51912	12/15/05	12/19/05	EPA 300.0	
WP-1 (5L13001-03) Water									
Chloride	23.7	5.00	mg/L	10	EL51912	12/15/05	12/19/05	EPA 300.0	
Total Dissolved Solids	698	5.00	"	1	EL51611	12/14/05	12/15/05	EPA 160.1	
Sulfate	14.9	5.00	"	10	EL51912	12/15/05	12/19/05	EPA 300.0	
DUP (5L13001-04) Water									
Chloride	4770	100	mg/L	200	EL51912	12/15/05	12/19/05	EPA 300.0	
Total Dissolved Solids	10400	5.00	"	1	EL51611	12/14/05	12/15/05	EPA 160.1	
Sulfate	1590	100	"	200	EL51912	12/15/05	12/19/05	EPA 300.0	

Environmental Lab of Texas

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Page 3 of 7

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/21/05 08:46

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EL51206 - EPA 5030C (GC)

Blank (EL51206-BLK1)

Prepared & Analyzed: 12/12/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	43.9		ug/l	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120			

LCS (EL51206-BS1)

Prepared & Analyzed: 12/12/05

Benzene	0.0569	0.00100	mg/L	0.0500		114	80-120			
Toluene	0.0599	0.00100	"	0.0500		120	80-120			
Ethylbenzene	0.0568	0.00100	"	0.0500		114	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100		107	80-120			
Xylene (o)	0.0547	0.00100	"	0.0500		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.4		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	34.6		"	40.0		86.5	80-120			

Calibration Check (EL51206-CCV1)

Prepared: 12/12/05 Analyzed: 12/13/05

Benzene	47.5		ug/l	50.0		95.0	80-120			
Toluene	54.3		"	50.0		109	80-120			
Ethylbenzene	55.6		"	50.0		111	80-120			
Xylene (p/m)	114		"	100		114	80-120			
Xylene (o)	57.2		"	50.0		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.5		"	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.9		"	40.0		99.8	80-120			

Matrix Spike (EL51206-MS1)

Source: 5L08004-18

Prepared: 12/12/05 Analyzed: 12/15/05

Benzene	0.0467	0.00100	mg/L	0.0500	ND	93.4	80-120			
Toluene	0.0524	0.00100	"	0.0500	ND	105	80-120			
Ethylbenzene	0.0543	0.00100	"	0.0500	ND	109	80-120			
Xylene (p/m)	0.111	0.00100	"	0.100	ND	111	80-120			
Xylene (o)	0.0557	0.00100	"	0.0500	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		ug/l	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	80-120			

Environmental Lab of Texas

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Page 4 of 7

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/21/05 08:46

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL51206 - EPA 5030C (GC)

Matrix Spike Dup (EL51206-MSD1)

Source: 5L08004-18

Prepared: 12/12/05 Analyzed: 12/15/05

Benzene	0.0448	0.00100	mg/L	0.0500	ND	89.6	80-120	4.15	20	
Toluene	0.0497	0.00100	"	0.0500	ND	99.4	80-120	5.48	20	
Ethylbenzene	0.0532	0.00100	"	0.0500	ND	106	80-120	2.79	20	
Xylene (p/m)	0.109	0.00100	"	0.100	ND	109	80-120	1.82	20	
Xylene (o)	0.0550	0.00100	"	0.0500	ND	110	80-120	0.905	20	
Surrogate: a,a,a-Trifluorotoluene	39.2		ug/l	40.0		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	47.1		"	40.0		118	80-120			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/21/05 08:46

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL51611 - General Preparation (WetChem)

Blank (EL51611-BLK1)

Prepared: 12/14/05 Analyzed: 12/15/05

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EL51611-DUP1)

Source: 5L13001-01

Prepared: 12/14/05 Analyzed: 12/15/05

Total Dissolved Solids 3360 5.00 mg/L 3430 2.06 5

Batch EL51912 - General Preparation (WetChem)

Blank (EL51912-BLK1)

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

LCS (EL51912-BS1)

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride 8.52 mg/L 10.0 85.2 80-120

Sulfate 9.43 " 10.0 94.3 80-120

Calibration Check (EL51912-CCV1)

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride 8.53 mg/L 10.0 85.3 80-120

Sulfate 9.48 " 10.0 94.8 80-120

Duplicate (EL51912-DUP1)

Source: 5L13001-01

Prepared: 12/15/05 Analyzed: 12/19/05

Sulfate 211 25.0 mg/L 206 2.40 20

Chloride 1070 25.0 " 1040 2.84 20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa Midstream/ Monument GWM
Project Number: 2-0108
Project Manager: Cindy Crain

Fax: (432) 687-0456
Reported:
12/21/05 08:46

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle

Date: 12-23-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 7 of 7

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Larson

Date/Time: 12/13/05 8:30

Order #: 5L13001

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.5 C
Shipping container/cooler in good condition?	☒ Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	☒ Yes	No	
Sample Instructions complete on Chain of Custody?	☒ Yes	No	
Chain of Custody signed when relinquished and received?	☒ Yes	No	
Chain of custody agrees with sample label(s)	☒ Yes	No	
Container labels legible and intact?	☒ Yes	No	
Sample Matrix and properties same as on chain of custody?	☒ Yes	No	
Samples in proper container/bottle?	☒ Yes	No	
Samples properly preserved?	☒ Yes	No	
Sample bottles intact?	☒ Yes	No	
Preservations documented on Chain of Custody?	☒ Yes	No	
Containers documented on Chain of Custody?	☒ Yes	No	
Sufficient sample amount for indicated test?	☒ Yes	No	
All samples received within sufficient hold time?	☒ Yes	No	
VOC samples have zero headspace?	☒ Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

CLIENT NAME:

Three Wishes

PROJECT NO.:

2-0108

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PAGE	1	OF	1	LAB. 1
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DATE _____
NAME _____
WATER _____
OIL _____
OTHER _____

DATE	TIME	W/M	SC	LO
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12/12	1227	✓
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2/12	1354	✓
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12/12	15/15	✓
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[illegible]

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SAMPLED BY (Signature) _____

PRINTED BY: (Signature)

RELINGQUIISHED BY: (signature)

COMMENTS:

COMMENTS

RECEIVING LABORATORY: _____

ADDRESS: _____
CITY _____

CITY: _____
CONTACT: _____

SAMPLE CONDITION WHEN RECEIVED:

-1.5 not

100

1

GW-25

**2004
ANNUAL GROUNDWATER MONITORING REPORT
MONUMENT GAS PLANT
(GW-025)
LEA COUNTY, NEW MEXICO**

Prepared for:

**Dynegy Midstream Services, L.P.
P.O. Box 67
Monument, New Mexico 88265
(505) 393-2823**

Prepared by:

**Larson and Associates, Inc.
507 North Marienfeld Street
Suite 202
Midland, Texas 79701
(432) 687-0901**

May 15, 2005



Mark J. Larson, P.G., C.P.G., C.G.W.P.

Table of Contents

<u>Section</u>	<u>Page</u>
TABLE OF CONTENTS	i
LIST OF TABLES	ii
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
1.0 INTRODUCTION	1
2.0 CURRENT ACTIVITIES	1
2.1 <u>Depth-to-Groundwater and Hydrocarbon Product Thickness</u>	1
2.2 <u>Groundwater Samples</u>	2
3.0 CONCLUSIONS	4

Tables

Table

- 1. Depth-to-Groundwater Measurements**
- 2. Summary of PSH Measurements from Monitoring Wells**
- 3. Summary of BTEX in Groundwater Samples**
- 4. Summary of Dissolved Metals Analysis of Groundwater Samples**
- 5. Summary of Inorganic Analysis of Groundwater Samples**

List of Figures

Figure

- 1. Site Location and Topographic Map**
- 2. Facility Drawing**
- 3. Groundwater Potentiometric Surface Map, March 18, 2004**
- 4. Groundwater Potentiometric Surface Map, June 30, 2004**
- 5. Groundwater Potentiometric Surface Map, September 8, 2004**
- 6. Groundwater Potentiometric Surface Map, December 27, 2004**
- 7. Hydrocarbon Product Control Chart**
- 8. Benzene Concentration in Groundwater, July 1, 2004 and December 27, 2004**
- 9. Dissolved Barium Concentration in Groundwater, July 1, 2004**
- 10. Chloride Concentration in Groundwater, July 1, 2004 and December 27, 2004**
- 11. TDS Concentration in Groundwater, July 1, 2004 and December 27, 2004**

List of Appendices

Appendix

A. Laboratory Reports

2004

Annual Groundwater Monitoring Report
Monument Gas Plant
Lea County, New Mexico

1.0 INTRODUCTION

Dynegy Midstream Services, L.P. ("DMS") has retained Larson and Associates, Inc. ("LA") to conduct quarterly and semi-annual groundwater monitoring at its Monument Gas Plant ("Facility") located approximately 2.6-miles southeast of Monument, in Lea County, New Mexico. The Facility is located in Unit Letter N (SE/4, SW/4), Section 36, Township 19 South and Range 36 East. Figure 1 presents a location and topographic map. Figure 2 presents a Facility drawing.

2.0 CURRENT ACTIVITIES

2.1 Depth-to-Groundwater and Hydrocarbon Product Thickness

Depth-to-groundwater and PSH was measured in all monitoring wells, except WP-3, WP-8 and WP-9, during 2004 on March 18, June 30, September 8 and December 27. The measurements were recorded using an electronic oil and water interface probe, and the probe was cleaned thoroughly between wells using a solution of distilled water and laboratory-grade detergent, and rinsed with distilled water. Measurements were not recorded from wells WP-3, WP-8 and WP-9, since these wells were modified for corrosion (cathodic) protection. The measurements were recorded at the top of the well casing, which had been previously surveyed for elevation by a New Mexico registered professional land surveyor. Table 1 presents a summary of the depth-to-groundwater and PSH measurements.

Referring to Table 1, seasonal variations in depth-to-groundwater were observed, and ranged from approximately 1.28 feet (WP-6 and WP-7) to 8.83 feet (WP-14). Groundwater was not observed in well WP-2 during the first (1st) second (2nd) and third (3rd) quarterly periods. Groundwater potentiometric surface maps were prepared from measurements collected on March 18, 2004, June 30, 2004, September 8, 2004 and December 27, 2004, and are presented on Figure 3, Figure 4, Figure 5 and Figure 6, respectively.

2004 Annual Groundwater Monitoring Report – Monument Gas Plant

Referring to Figure 3 (March 18, 2004), groundwater ranged from approximately 3,556.32 feet above mean sea level (“MSL”) at well WP-6 (upgradient) to 3,538.91 feet MSL at well WP-14 (downgradient). On June 30, 2004, groundwater ranged from approximately 3,556.35 feet MSL at well WP-6 (upgradient) to 3,539.00 feet MSL at well WP-14 (downgradient). On September 8, 2004, groundwater ranged from approximately 3,556.36 feet MSL at well WP-6 (upgradient) to 3,539.81 feet MSL at well WP-14 (downgradient). On December 27, 2004, groundwater ranged from approximately 3,557.90 feet MSL at well WP-6 (upgradient) to 3,546.07 feet MSL at well WP-15 (downgradient). Groundwater flow was consistently from northwest to southeast at a gradient ranging from approximately 0.009 to 0.01 feet per foot. No significant variations in groundwater flow direction or gradient were observed between the current or previous monitoring periods.

PSH was observed in wells WP-6 (0.00 to 1.17 feet), WP-12 (0.00 to 0.16 feet) and WP-14 (0.00 to 0.08 feet). The PSH, except well WP-6, is consistent with natural gas condensate. The PSH observed in well WP-6 is consistent with crude oil from a source upgradient to the Facility. Laboratory analysis of product samples indicates that the PSH is residual from a historic release. Since 2003, DMS has recovered approximately 100 gallons of PSH from wells WP-4R, WP-12, WP-14 and WP-15 using pneumatic pumps. The PSH is pumped into drums, and processed at the Facility. No PSH was observed in the wells during the fourth (4th) quarter of 2004 and first (1st) quarter of 2005. Table 2 presents a detailed summary of PSH measurements from wells WP-4/4R, WP-6, WP-10, WP-12, WP-14 and WP-15. Figure 7 presents a control chart of the PSH thickness measurements. Referring to Figure 7, PSH thickness in wells WP-4/4R, WP-6, WP-10, WP-12, WP-14 and WP-15 has diminished to non-detectable.

2.2 Groundwater Samples

On July 1, 2004, groundwater samples from wells WP-1, WP-5, WP-7, WP-10, WP-11 and WP-13 were analyzed for benzene, toluene, ethylbenzene, xylene (collectively referred to as BTEX), dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), chloride, sulfate and Total dissolved solids (TDS). On December 27, 2004, groundwater samples from wells

2004 Annual Groundwater Monitoring Report – Monument Gas Plant

WP-1, WP-5 and WP-14 were analyzed for BTEX, chloride, sulfate and TDS. Table 3 presents a summary of the BTEX analysis. Table 4 presents a summary of the dissolved metals analysis. Table 5 presents a summary of the inorganic (chloride, sulfate and TDS) analysis. Appendix A presents the laboratory reports.

Each well was purged to remove three (3) casing-volumes of groundwater using dedicated polyethylene disposal bailers and nylon cord. The wells were generally purged dry and allowed to recover sufficiently prior to sample collection. The purged water was placed in a portable tank and disposed with waste water from the Facility. The samples were carefully poured from the bailers into laboratory-prepared containers, labeled, chilled in an ice chest, and delivered under chain-of-custody ("COC") control to TraceAnalysis, Inc. ("Trace"), located in Lubbock, Texas. The samples were analyzed using NMOCD approved methods, and a duplicate sample was collected and analyzed for quality assurance and quality control ("QA/QC").

Referring to Table 3, benzene exceeded the State of New Mexico, Water Quality Control Commission ("WQCC") human health standard of 0.01 milligrams per liter (mg/L) in samples from wells WP-1 (1.10 mg/L), WP-5 (2.81 mg/L), WP-10 (1.98 mg/L), WP-11 (3.05 mg/L) and WP-13 (0.586 mg/L) during the July 2004 event. Concentrations of benzene exceeded the WQCC standard in samples from wells WP-1 (1.73 mg/L), WP-5 (2.74 mg/L) and WP-14 (0.199 mg/L) during the December 2004 event. The benzene concentrations were consistent with previous sample results. The toluene, ethylbenzene and xylene concentrations were below the WQCC standards during the July 2004 and December 2004 events. Figure 8 presents a Facility drawing showing benzene concentrations on July 1, 2004 and December 27 2004.

Referring to Table 4, barium was the only metal detected in the groundwater samples on July 1, 2004, and ranged from 0.049 mg/L (WP-11) to 1.71 mg/L (WP-11). The barium concentrations in wells WP-1 (1.44 mg/L), WP-5 (1.19 mg/L), WP-10 (1.71 mg/L) and WP-13 (1.19 mg/L) exceeded the WQCC human health standard of 1.0 mg/L, and were consistent with concentrations previously

2004 Annual Groundwater Monitoring Report – Monument Gas Plant

reported in samples from the wells. Figure 9 presents barium concentrations in groundwater samples collected on July 1, 2004 and December 27, 2004.

Referring to Table 5, the background concentration reported for chloride, sulfate and TDS in groundwater from well WP-6 on June 6 –7, 2002, were 1,600 mg/L, 147 mg/L and 4,410 mg/L, respectively. The WQCC has established domestic water quality standards for chloride, sulfate and TDS at 250 mg/L, 600 mg/L and 1000 mg/L, respectively. Concentrations of chloride reported in samples from wells WP-5, WP-7, WP-10, WP-11, WP-13 and WP-14 exceeded the NMWQCC standard. Chloride is generally elevated due to historic operations from a chemical plant upgradient (northwest) of the Facility. Sulfate was detected above the WQCC standard (600 mg/L) in samples from wells WP-7 and WP-14. The sulfate concentrations are consistent with results previously reported to the OCD. The concentration of TDS exceeded the WQCC domestic water quality standard (1,000 mg/L) in samples from all wells, and is likely attributed to upgradient industrial operations. Figure 10 and Figure 11 present chloride and TDS concentrations in groundwater samples, respectively, on July 1, 2004 and December 27, 2004.

3.0 CONCLUSIONS

1. Slight variations in depth-to-groundwater from seasonal fluctuation were observed during 2004, and groundwater flow was generally from northwest to southeast at a gradient from 0.009 to 0.01 feet per foot.
2. PSH was observed in wells WP-6 (0.00 to 1.17 feet), WP-12 (0.00 to 0.16 feet) and WP-14 (0.00 to 0.08 feet), but diminished to non-detectable during the fourth (4th) quarter of 2004 and first (1st) quarter of 2005. Approximately 100 gallons of PSH from wells WP-4R, WP-12, WP-14 and WP-15 using pneumatic pumps.
3. The measurements indicate that PSH has been captured at the Facility boundary at locations WP-4, WP-12 and WP-14.

NEED DATA
GRABBE MW'S

2004 Annual Groundwater Monitoring Report – Monument Gas Plant

4. The data suggests that PSH observed in well WP-6 may be associated with an upgradient source located north of the well, and nearest potential upgradient source may be a producing oil well located about 75 feet north of well WP-6.
5. Benzene exceeded the WQCC standard of 0.01 mg/L in groundwater samples from wells WP-1 (1.10 mg/L), WP-5 (2.81 mg/L), WP-10 (1.98 mg/L), WP-11 (3.05 mg/L) and WP-13 (0.586 mg/L) during the July 2004, and wells WP-1 (1.73 mg/L), WP-5 (2.74 mg/L) and WP-14 (0.199 mg/L) during the December 2004.
6. Toluene, ethylbenzene and xylene were below the WQCC standards during June and December 2004.
7. Barium was the only detected metal, and exceeded the WQCC human health standard of 1.0 mg/L in samples from wells WP-1 (1.44 mg/L), WP-5 (1.19 mg/L), WP-10 (1.71 mg/L) and WP-13 (1.19 mg/L). The barium concentrations were consistent with results previously reported to the OCD.
8. Chloride and TDS concentrations in samples from wells WP-5, WP-7, WP-10, WP-11, WP-13 and WP-14 exceeded the WQCC standards of 250 mg/L and 1,000 mg/L, respectively. The elevated levels are likely associated with historic releases from a chemical plant located northwest (upgradient) of the Facility. The chloride and TDS concentrations are consistent with results previously reported to the NMOCD.
9. Sulfate was detected above the WQCC standard of 600 mg/L in samples from wells WP-7 and WP-14, and is consistent with results previously reported to the NMOCD.

TABLES

TABLES

Table 1
Depth-to-Groundwater Measurements
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 1

Monitoring Well	1st Quarter 2004 (03/18/04)	2nd Quarter 2004 (06/30/04)	3rd Quarter 2004 (09/08/04)	4th Quarter 2004 (12/27/04)
WP-1	30.24	25.65	25.79	21.11
WP-2	Dry	Dry	Dry	27.69
*WP-3	*	*	*	*
WP-4	---	37.28	37.34	31.56
WP-4R	38.14	37.58	37.62	31.32
WP-5	36.17	35.87	36.07	29.52
WP-6	**29.92 (1.17')	**29.85 (1.12')	28.74 (NWD)	27.46
WP-7	32.91	32.05	32.15	26.09
*WP-8	*	*	*	*
*WP-9	*	*	*	*
WP-10	27.56	26.84	26.59	23.40
WP-11	28.76	28.03	27.81	24.56
WP-12	**38.7 (0.06')	**38.56 (0.16')	38.34 (0.11')	35.52
WP-13	28.84	27.91	27.81	24.07
WP-14	42.9	**41.88 (0.08')	41.99 (0.05')	33.16
WP-15	32.51	32.38	32.28	28.91

Notes: All measurements recorded in feet below top of PVC well casing.

1. *: Cathodic protection well
2. **: Phase separated hydrocarbon (PSH) in well
3. ---: Not measured
4. (0.04'): PSH thickness in feet
5. NWD: No water detected

*WATER
LEVEL
HAS RISEN
~ 6-7 feet*

Table 2
Summary of PSH Measurements from Monitoring Wells
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 2

Date	WP-4/4R (Feet)	WP-6 (Feet)	WP-10 (Feet)	WP-12 (Feet)	WP-14 (Feet)	WP-15 (Feet)
04/26/02	0.35	0.06	0.02	0.50	0.14	0.72
06/06/02	0.31	0.10	0.03	0.52	0.18	0.71
12/19/02	0.44	0.70	0.00	0.22	0.44	0.55
04/02/03	0.62	0.04	0.00	0.30	0.09	0.48
06/04/03	--	0.03	0.00	0.23	0.06	0.44
06/19/03	--	0.05	0.00	0.26	0.07	0.30
08/05/03	--	--	--	--	0.30	0.00
08/11/03	--	--	--	--	--	0.00
08/21/03	0.21	--	--	--	--	0.00
08/27/03	0.22	--	--	--	--	0.00
09/03/03	0.00	--	--	--	--	0.00
09/23/03	--	0.06	0.00	0.45	--	0.00
10/03/03	--	--	--	--	0.12	0.00
10/07/03	--	--	--	--	--	0.00
10/13/03	--	--	--	0.45	--	--
10/16/03	--	--	--	0.60	--	0.00
10/21/03	--	--	--	0.00	--	0.00
11/03/03	--	--	--	0.03	--	0.00
11/06/03	--	--	--	0.02	0.16	--
11/13/03	--	--	--	--	0.32	0.00
12/02/03	0.07	0.05	0.00	0.06	0.18	0.00
12/22/03	0.00	--	--	0.39	0.15	0.00
01/05/04	0.00	--	--	0.09	0.02	--
01/08/04	0.00	--	--	--	--	--
02/02/04	0.02	--	--	0.10	--	--
02/06/04	0.03	--	--	0.18	0.08	--
02/17/04	0.00	--	--	0.09	--	0.00
03/09/04	0.00	--	--	0.11	0.03	0.00
03/18/04	0.00	1.70	0.00	0.06	0.00	0.00
03/24/04	0.00	--	--	--	0.02	--
04/05/04	0.00	--	--	--	0.09	--
04/12/04	--	--	--	--	0.11	0.00
04/16/04	--	--	--	0.09	0.13	--
05/07/04	--	--	--	0.09	--	--
05/13/04	0.35	--	--	0.08	0.05	--
06/03/04	0.00	--	--	0.21	0.09	--
06/30/04	0.00	1.12	0.00	0.16	0.08	0.00
07/08/04	0.02	--	--	0.12	0.04	--
07/15/04	0.00	0.03	0.00	0.14	0.13	0.00

Table 2
Summary of PSH Measurements from Monitoring Wells
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 2 of 2

Date	WP-4/4R (Feet)	WP-6 (Feet)	WP-10 (Feet)	WP-12 (Feet)	WP-14 (Feet)	WP-15 (Feet)
07/28/04	--	--	--	0.12	0.06	--
08/02/04	--	--	--	0.09	0.08	--
08/16/04	--	--	--	--	0.07	--
08/23/04	0.04	--	--	--	0.07	0.00
08/30/04	0.02	--	--	0.00	0.07	0.00
09/08/04	0.00	--	0.00	0.11	0.05	0.00
09/13/04	--	--	--	0.07	0.11	--
09/20/04	0.08	--	--	0.05	0.10	--
10/21/04	0.03	--	--	0.05	0.05	--
10/26/04	--	--	--	0.06	0.00	--
11/12/04	0.01	--	--	0.32	0.00	--
12/27/04	0.00	0.00	0.00	0.00	0.00	0.00
03/10/05	0.00	--	--	0.00	0.00	0.00
04/04/05	0.00	0.00	0.00	0.00	0.00	0.00

Notes: All measuremnts are in feet

Table 3
Summary of BTEX in Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 2

Monitoring Well	Quarter/Year	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
NMWQCC Standard						
WP-1	2nd 2002	06/06/02	1.93	<0.010	0.032	<0.020
	4th 2002	12/19/02	2.24	<0.100	0.161	0.151
	2nd 2003	06/19/03	3.46	<0.025	0.146	0.080
	4th 2003	12/03/03	1.60	0.011	0.143	0.029
	2nd 2004	07/01/04	1.10	<0.0500	<0.0500	<0.0500
	4th 2004	12/27/04	1.73	<0.0500	<0.0500	<0.0500
	2nd 2002	06/06/02	0.089	0.002	<0.001	<0.002
	4th 2002	12/19/02	0.339	0.002	<0.001	0.003
WP-5	2nd 2003	06/19/03	2.37	<0.005	<0.005	<0.010
	4th 2003	12/03/03	3.97	<0.010	<0.010	<0.020
	2nd 2004	07/01/04	2.85	<0.0500	<0.0500	<0.0500
	4th 2004	12/27/04	2.74	<0.020	<0.020	<0.020
	2nd 2002	06/07/0-2	0.021	0.004	0.060	0.014
	2nd 2002	06/07/02	<0.001	0.001	<0.001	<0.002
	2nd 2003	06/19/03	<0.001	0.001	<0.001	<0.002
	2nd 2004	07/01/04	<0.001	<0.001	<0.001	<0.001
MW-10	2nd 2004	07/01/04	1.98	<0.100	0.327	<0.100

Table 3
Summary of BTEX in Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 2 of 2

Monitoring Well	Quarter/Year	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
NMWQCC Standard						
			0.01	0.75	0.75	0.62
MW-11	2nd 2004	07/01/04	3.05	<0.500	<0.500	<0.500
WP-13	2nd 2002	06/07/02	0.842	0.022	0.123	0.074
	2nd 2003	06/19/03	1.11	0.043	0.200	<0.121
	2nd 2004	07/01/04	0.586	<0.100	<0.100	<0.100
WP-14	2nd 2002	06/07/02	0.012	0.002	0.009	0.021
	4th 2002	12/19/02	0.025	0.006	0.011	0.034
	4th 2004	12/27/04	0.199	<0.020	<0.020	<0.020
Duplicate (WP-1)	4th 2003	12/03/03	1.68	0.012	0.155	0.023
Duplicate (WP-10)	2nd 2004	07/01/04	1.91	<0.200	0.322	<0.200
Duplicate (WP-5)	4th 2004	12/27/04	2.45	<0.020	<0.020	<0.020

Notes:

1. Mg/L: Milligrams per liter
2. <: Below method detection limit

Table 4
Summary of Dissolved Metals Analysis of Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 1

Monitoring Well	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
NMWQCC Standard		0.1	1.0	0.01	0.05	0.05	0.002	0.05	0.05
WP-1	06/06/02	0.017	1.90	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
	06/19/03	0.018	1.74	<0.001	<0.002	<0.011	<0.0005	<0.004	<0.002
	07/01/04	<0.005	1.44	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-5	06/06/02	<0.008	0.026	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
	06/19/03	<0.008	0.006	<0.001	<0.002	<0.011	<0.0005	<0.004	<0.002
	07/01/04	<0.005	1.19	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-6	06/07/02	<0.008	0.185	0.002	<0.002	<0.011	<0.002	<0.004	<0.002
WP-7	06/07/02	0.013	0.017	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
	06/19/03	<0.008	0.003	<0.001	<0.002	<0.011	<0.0005	<0.004	<0.002
	07/01/04	<0.005	0.581	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-10	07/01/04	<0.005	1.71	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-11	07/01/04	<0.005	0.049	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-13	06/07/02	0.010	1.63	<0.001	<0.002	<0.011	<0.002	<0.004	<0.002
	06/19/03	<0.008	1.07	<0.001	<0.002	<0.011	<0.0005	0.012	<0.002
	07/01/04	<0.005	1.19	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003
WP-14	06/07/02	<0.008	0.020	0.002	<0.002	<0.011	<0.002	<0.004	<0.002
Duplicate									
WP-10	07/01/04	<0.005	1.21	<0.001	<0.005	<0.010	<0.0002	<0.010	<0.003

Notes:
1. Mg/L: Milligrams per liter
2. <: Below method detection limit

Table 5
Summary of Inorganic Analysis of Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 2

Monitoring Well	Quarter/Year	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
NMWQCC Standard					1000
WP-1	2nd 2002	06/06/02	97.5	7.80	1,070
	4th 2002	12/19/02	97.5	22.9	992
	2nd 2003	06/19/03	148	30.1	946
	4th 2003	12/03/03	186	<0.50	983
	2nd 2004	07/01/04	91.8	<5.00	1,010
	4th 2004	12/27/04	<5.00	<5.00	1,028
	2nd 2002	06/06/02	6,380	3,960	16,100
	4th 2002	12/19/02	5,140	2,580	11,700
WP-5	2nd 2003	06/19/03	1,600	972	5,090
	4th 2003	12/03/03	886	401	3,300
	2nd 2004	07/01/04	427	239	2,500
	4th 2004	12/27/04	584	475	2,715
	2nd 2002	06/07/02	1,600	147	4,410
	2nd 2002	06/07/02	5,670	905	16,800
WP-7	2nd 2003	06/19/03	13,800	6550	30,700
	2nd 2004	07/01/04	7,440	3270	28,500
	2nd 2004	07/01/04	832	106	3,550
WP-10	2nd 2004	07/01/04	482	79.2	1,945

Table 5
Summary of Inorganic Analysis of Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant

Lea County, New Mexico

Page 2 of 2

Monitoring Well	Quarter/Year	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
NMW/QCC Standard			250	600	1000
WP-13	2nd 2002	06/07/02	768	8.70	2,980
	2nd 2003	06/19/03	576	31.8	2,000
	2nd 2004	07/01/04	642	75.2	2,640
WP-14	2nd 2002	06/07/02	11,300	3,520	25,400
	4th 2002	12/19/02	12,200	2,940	25,600
	4th 2004	12/27/04	7,740	2,380	14,900
Duplicate (WP-10)	2nd 2004	07/01/04	930	105	5,400
Duplicate (WP-5)	4th 2004	12/27/04	653	477	2,625

Notes:

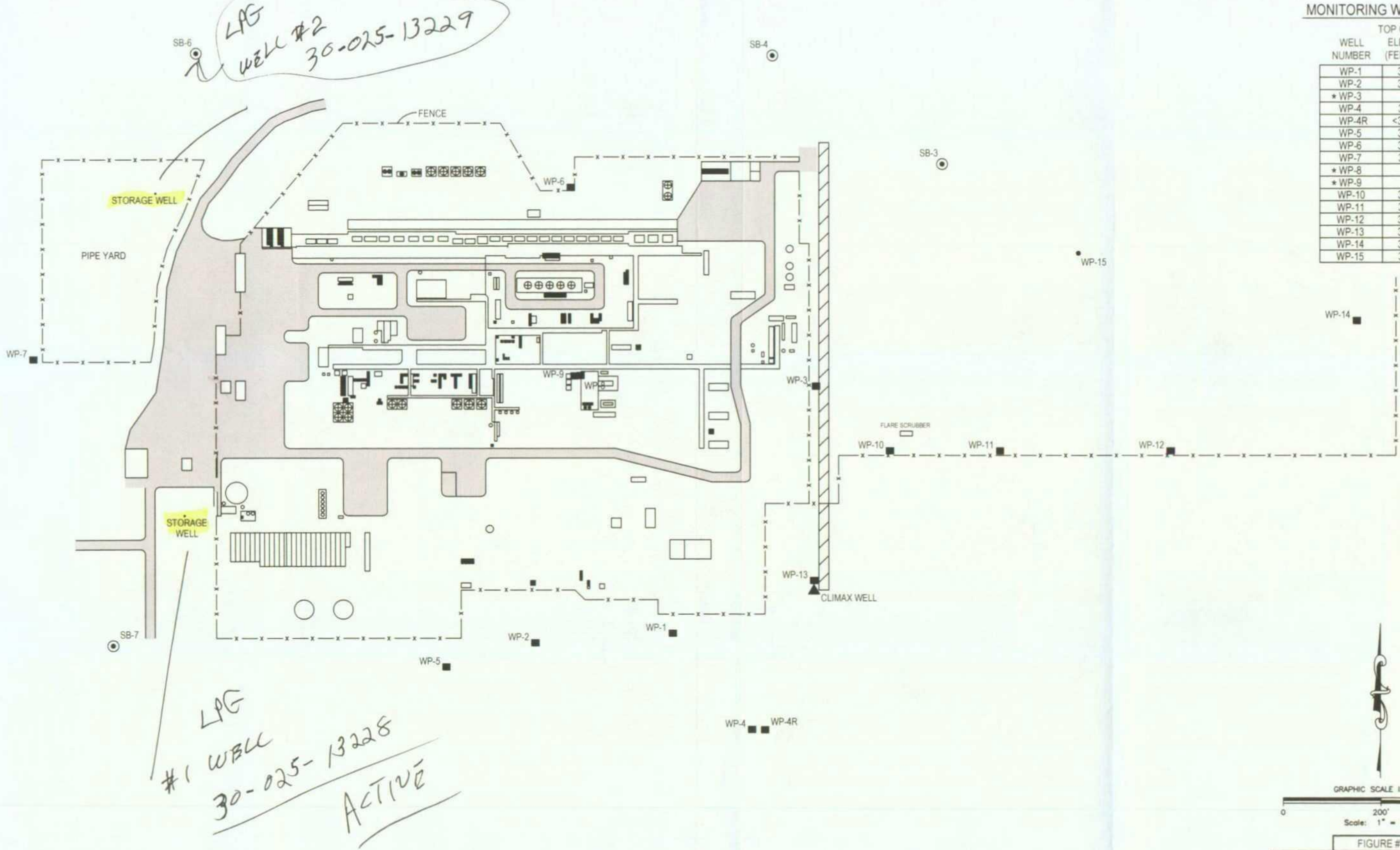
1. mg/L: Milligrams per liter
2. <: Below method detection limit

FIGURES

FIGURES

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



- LEGEND**
- SB-7 - SOIL BORING LOCATION
 - WP-1 - MONITORING WELL LOCATION

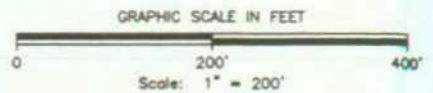


FIGURE #2
LEA COUNTY, NEW MEXICO
DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

DATE: 05/16/05
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27

LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 3547.70 - MONITORING WELL LOCATION AND GROUNDWATER ELEVATION, (FEET AMSL), 3/18/04
- * - PHASE SEPARATED HYDROCARBONS PRESENT
- ** - CATHODIC PROTECTION WELL
- - GROUNDWATER FLOW DIRECTION
- 3539 - CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION, (FEET AMSL), 3/18/04

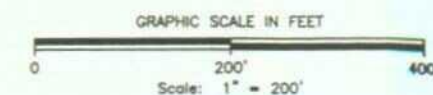
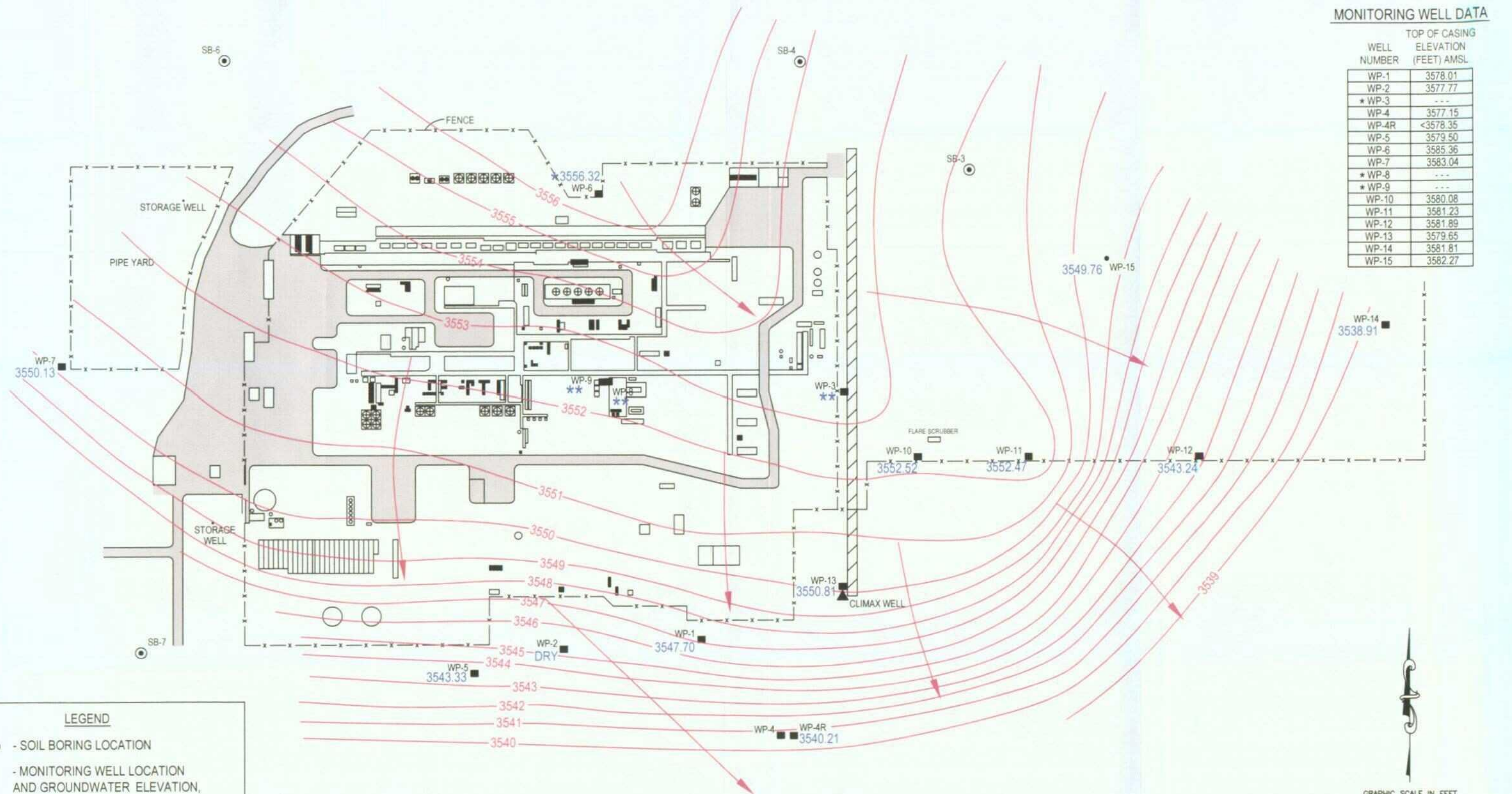


FIGURE #3

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARCH 18, 2004

DATE
05/16/05
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27

- LEGEND**
- SB-7 - SOIL BORING LOCATION
 - WP-1 3552.36 - MONITORING WELL LOCATION AND GROUNDWATER ELEVATION, (FEET AMSL), 6/30/04
 - * - PHASE SEPARATED HYDROCARBONS PRESENT
 - ** - CATHODIC PROTECTION WELL
 - - GROUNDWATER FLOW DIRECTION
 - 3539 - CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION, (FEET AMSL), 6/30/04

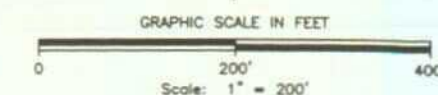
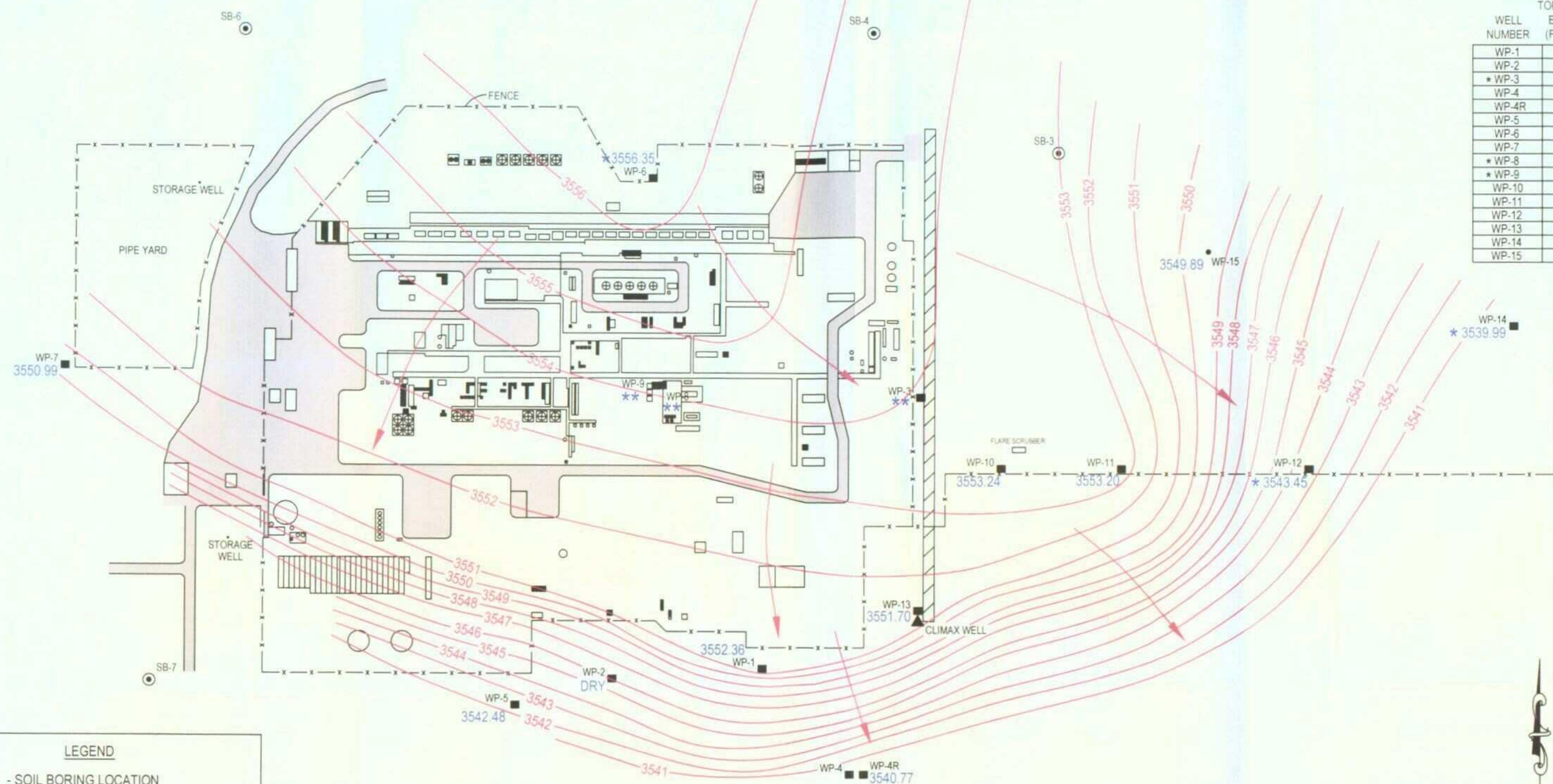


FIGURE #4
LEA COUNTY, NEW MEXICO

DYNERGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

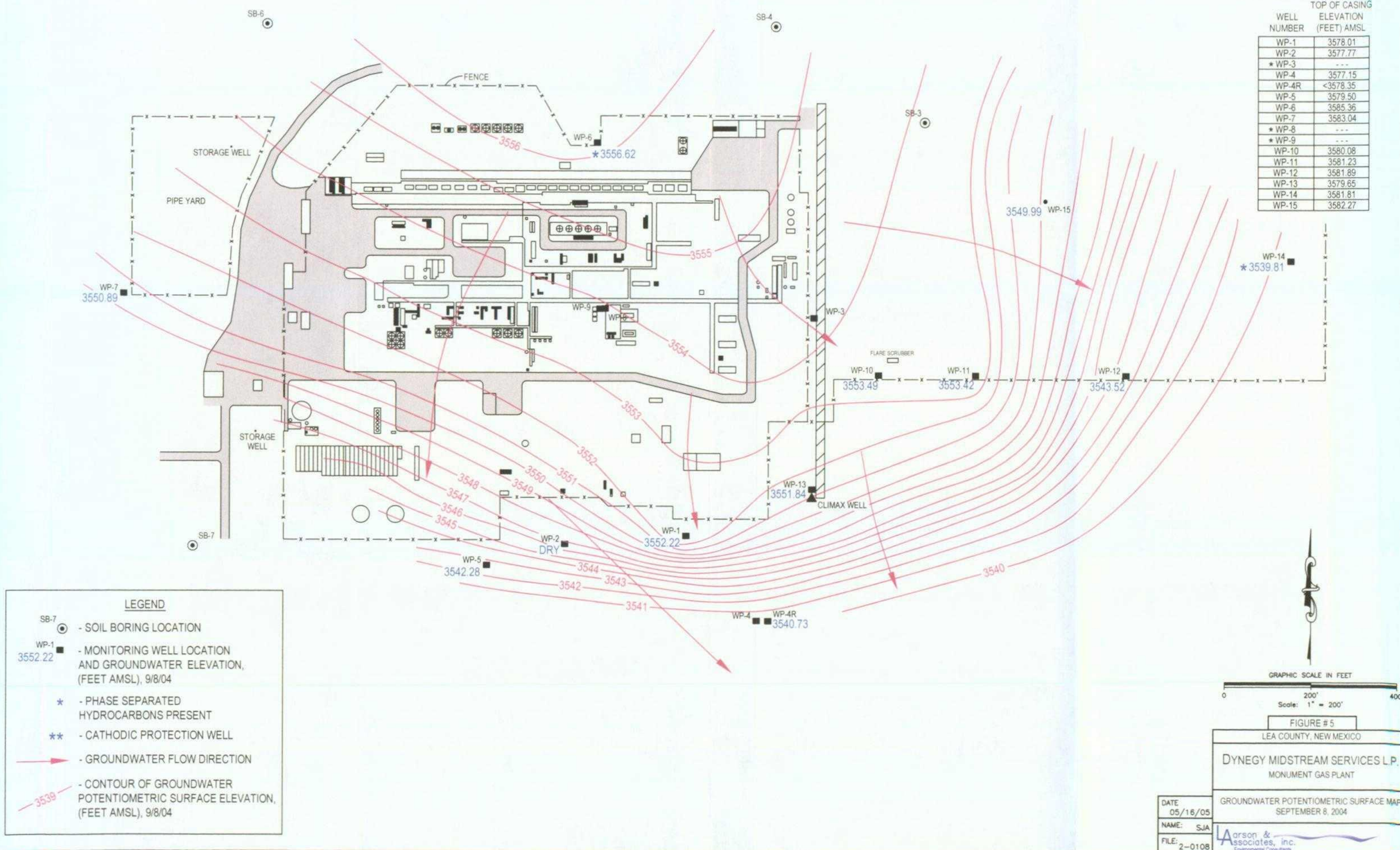
GROUNDWATER POTENTIOMETRIC SURFACE MAP
JUNE 30, 2004

DATE
05/16/05
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

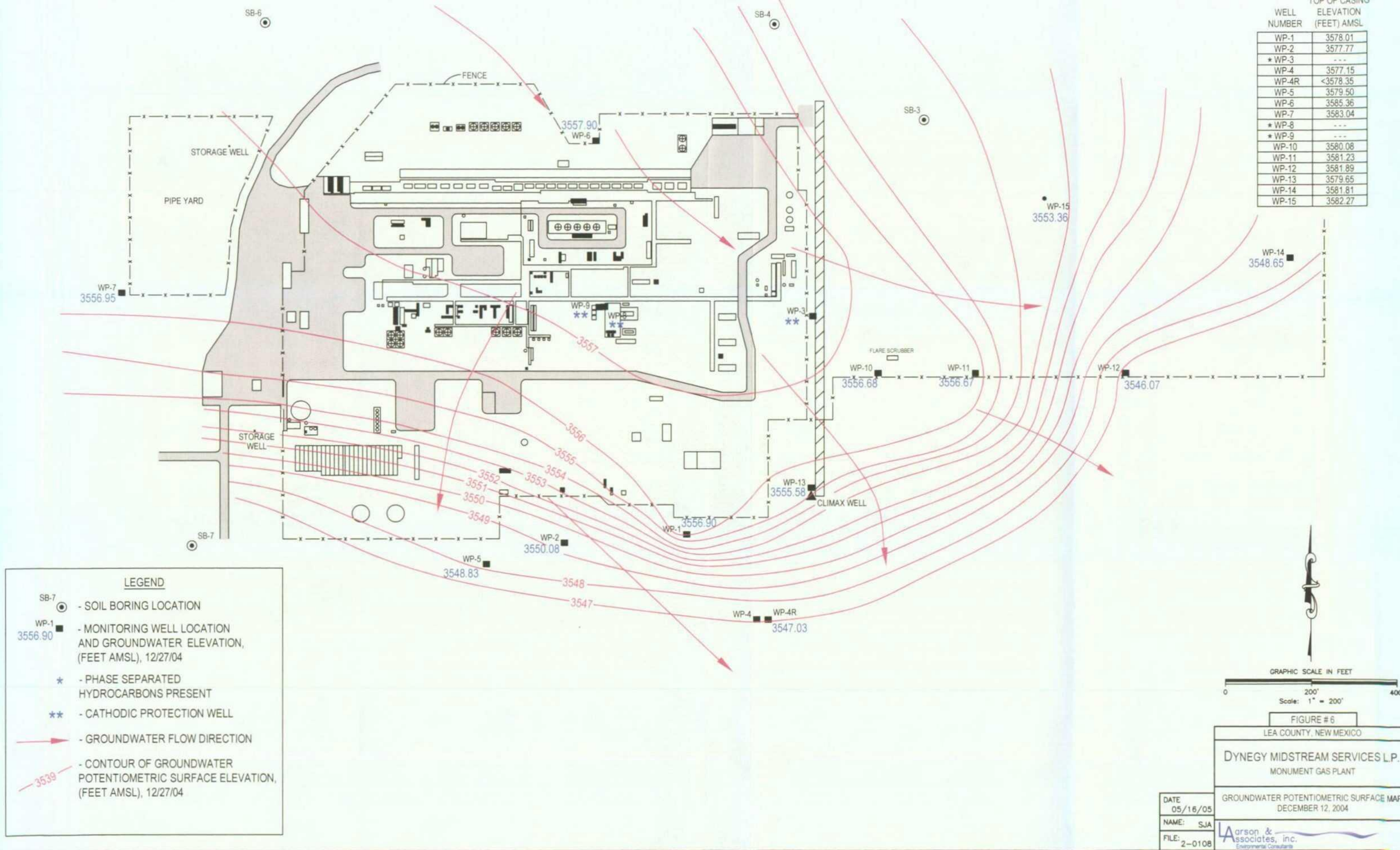
MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 3556.90 - MONITORING WELL LOCATION AND GROUNDWATER ELEVATION, (FEET AMSL), 12/27/04
- * - PHASE SEPARATED HYDROCARBONS PRESENT
- ** - CATHODIC PROTECTION WELL
- GROUNDWATER FLOW DIRECTION
- 3539 - CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION, (FEET AMSL), 12/27/04



FIGURE #6

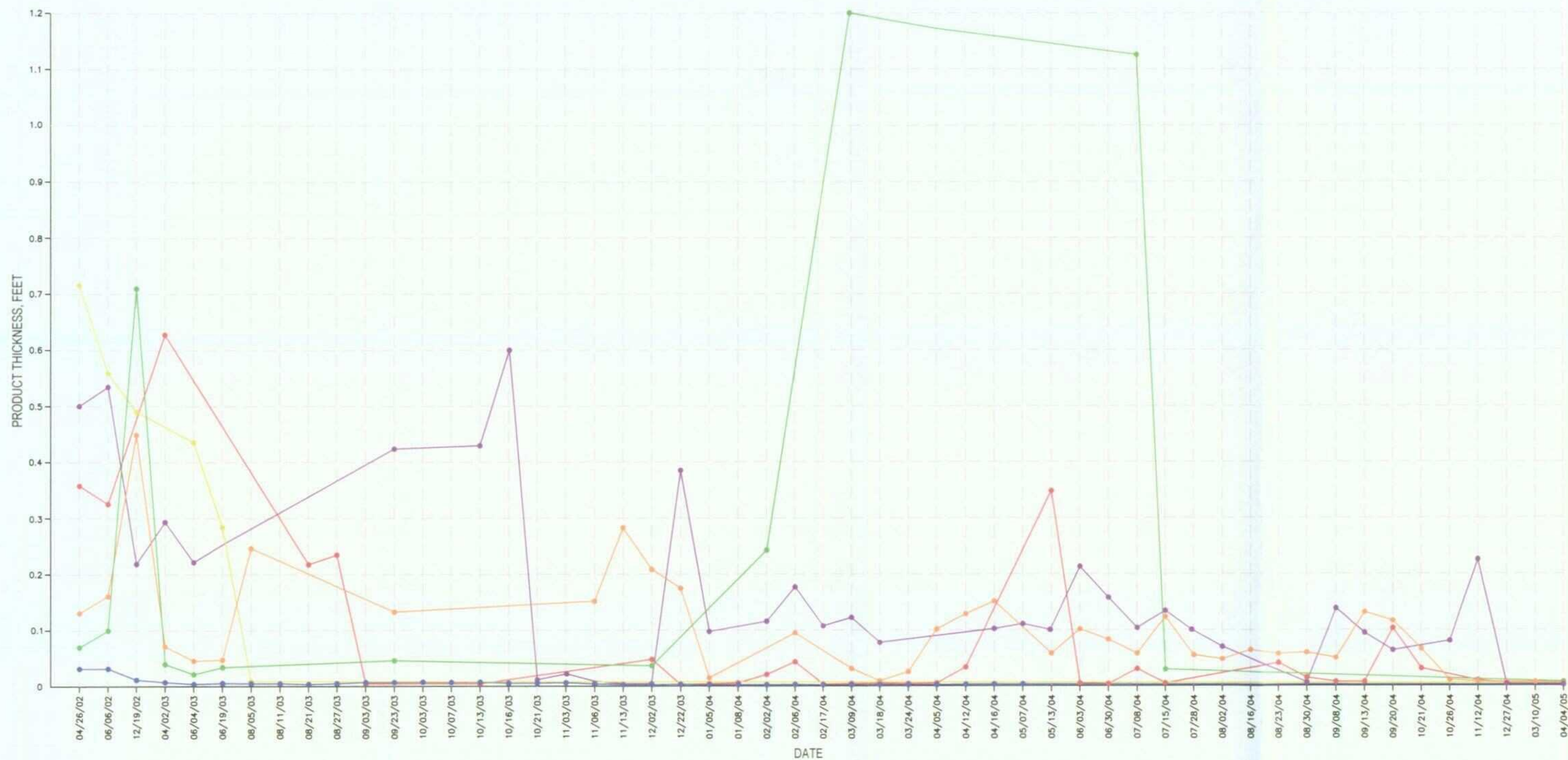
LEA COUNTY, NEW MEXICO

DYNEGE MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

GROUNDWATER POTENTIOMETRIC SURFACE MAP
DECEMBER 12, 2004

DATE
05/16/05
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants



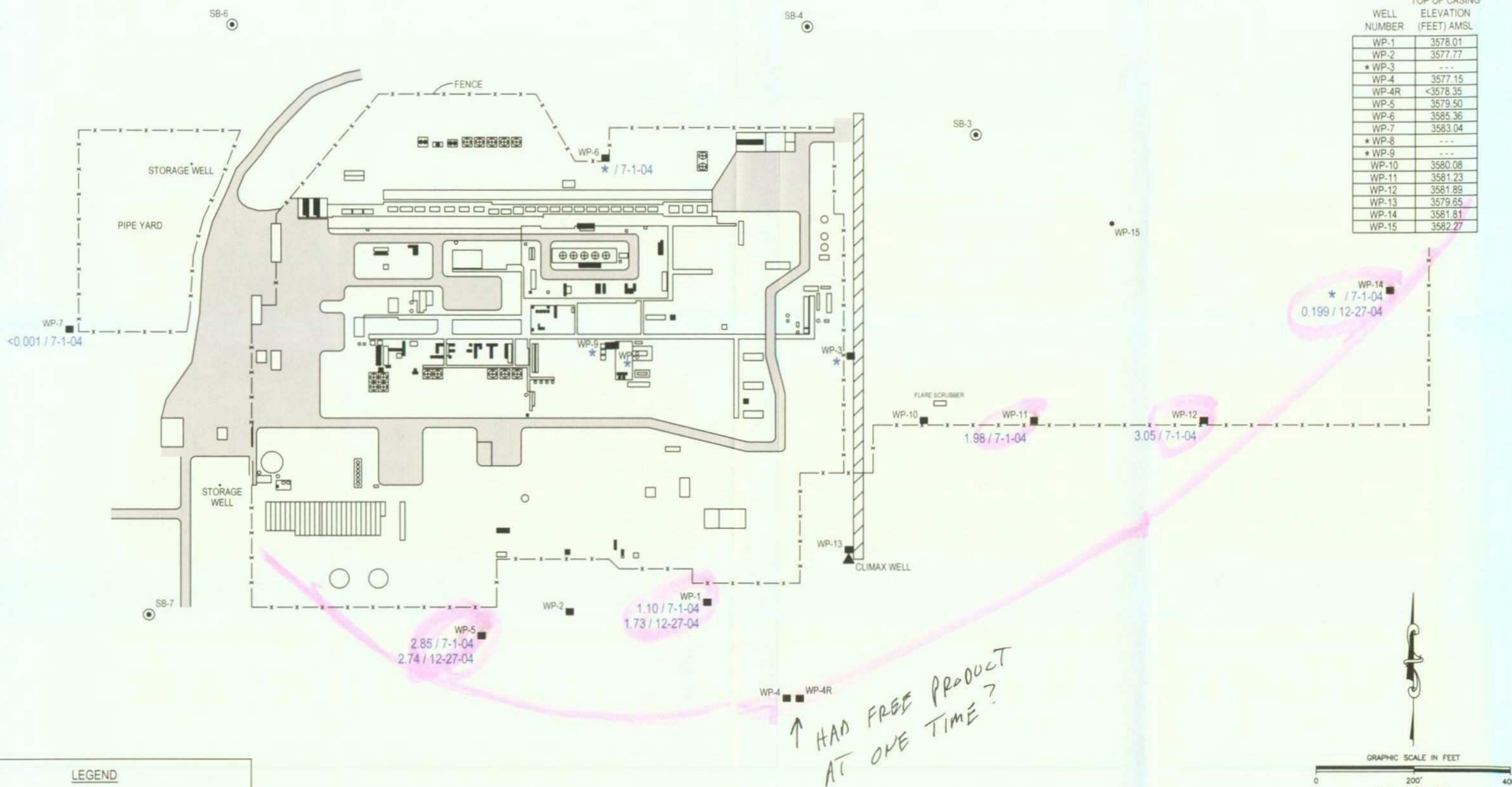
LEGEND	
COLOR	WELL
RED	WP-4/4R
BLUE	WP-10
PURPLE	WP-12
ORANGE	WP-4
YELLOW	WP-15
GREEN	WP-6

DATE
05/16/05
NAME: SJA
FILE: 2-0108

FIGURE #7
LEA COUNTY, NEW MEXICO
DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT
HYDROCARBON PRODUCT CONTROL CHART
Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 1.10 - MONITORING WELL LOCATION AND BENZENE CONCENTRATION IN GROUNDWATER, (MG/L), 7/1/04 AND 12/27/04
- * - PHASE SEPARATED HYDROCARBONS PRESENT

DATE
05/16/05
NAME: SJA
FILE: 2-0108

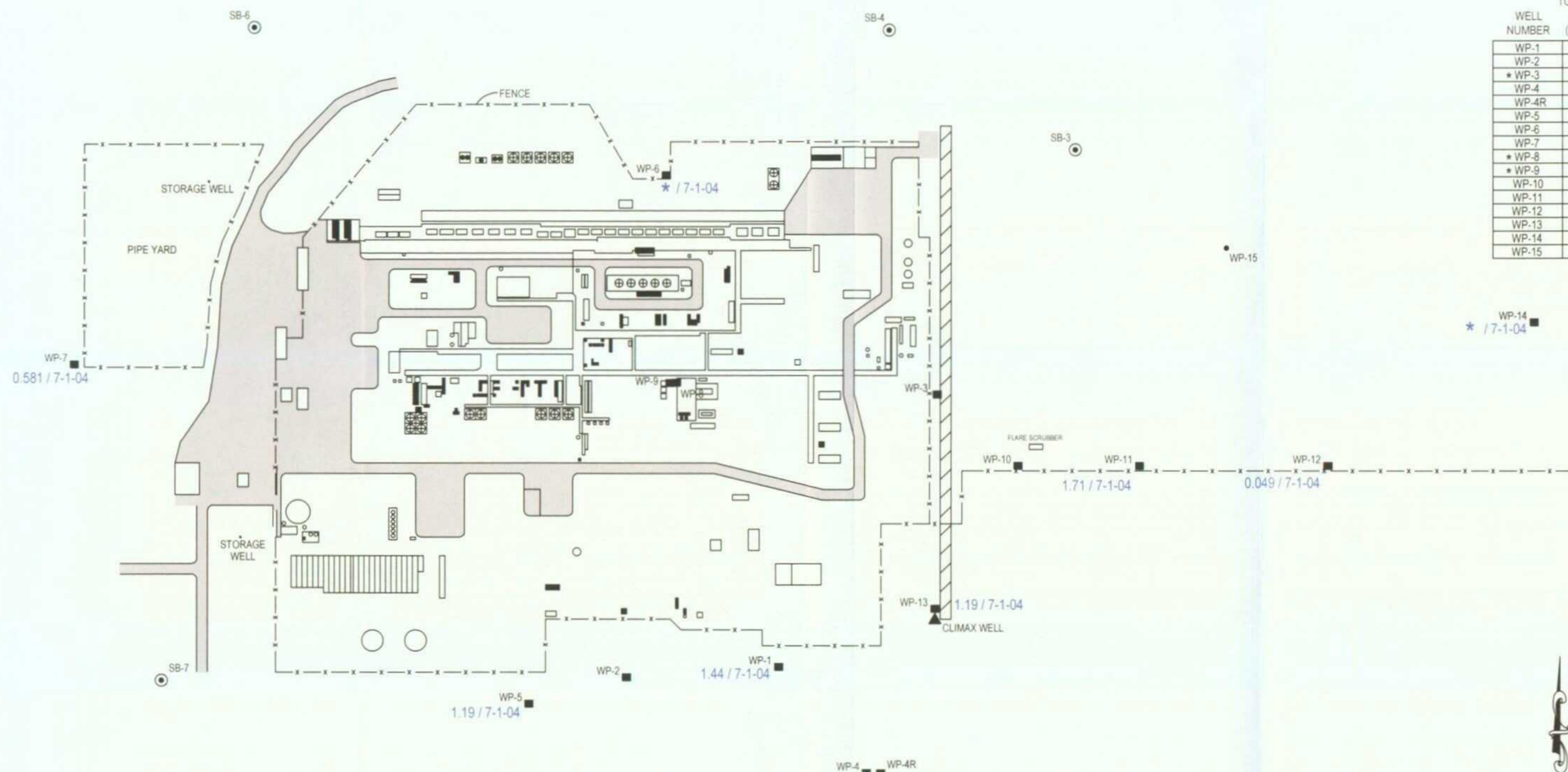
BENZENE CONCENTRATION IN GROUNDWATER
JULY 1, 2004 AND DECEMBER 27, 2004

Larson & Associates, Inc.
Environmental Consultants

FIGURE #8
LEA COUNTY, NEW MEXICO
DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 - MONITORING WELL LOCATION AND DISSOLVED BARIUM CONCENTRATION IN GROUNDWATER, (MG/L), 7/1/04
- 144
- * - PHASE SEPARATED HYDROCARBONS PRESENT

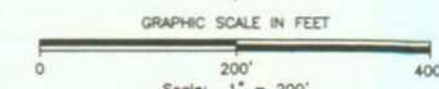


FIGURE #9

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

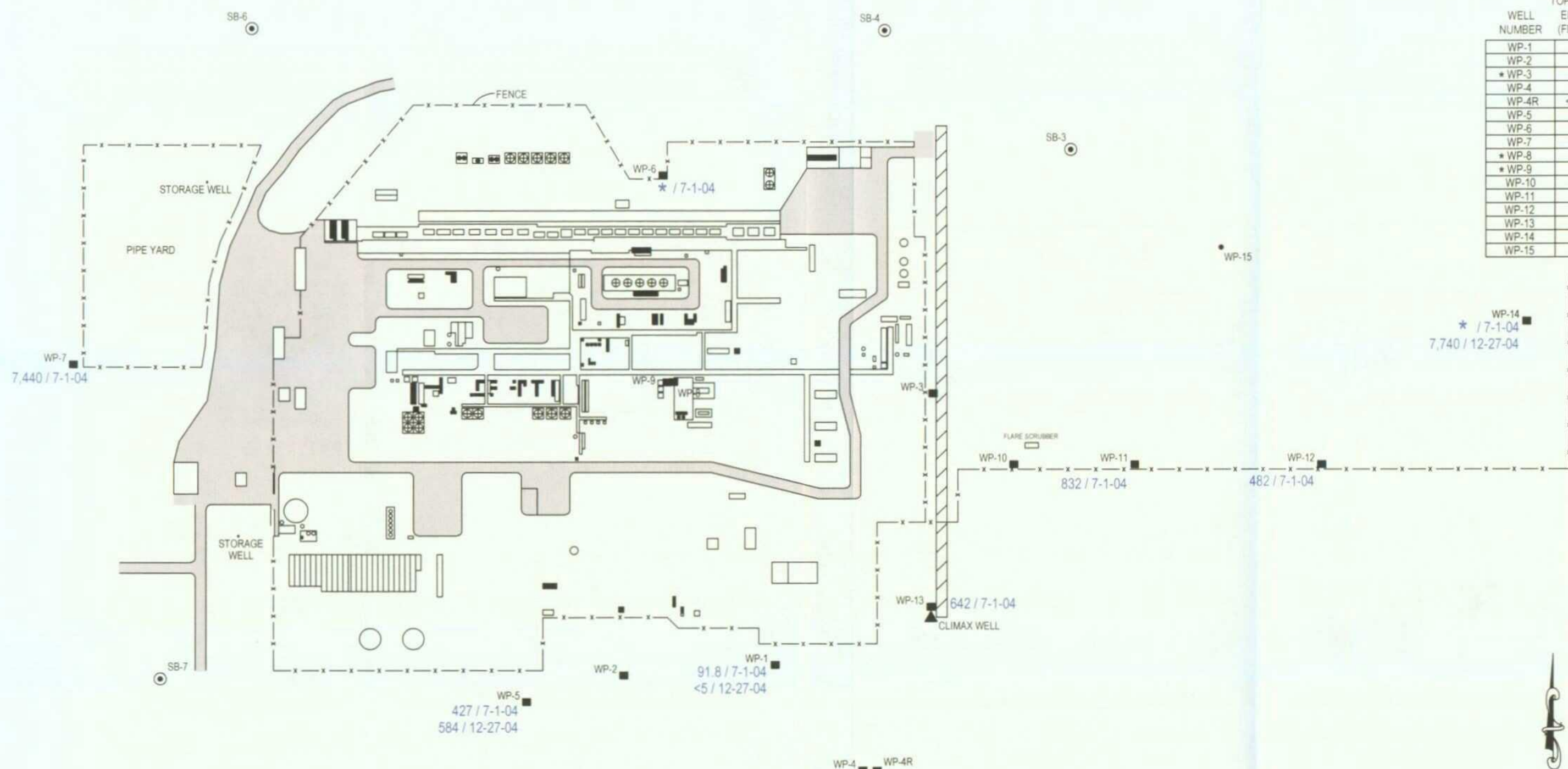
DISSOLVED BARIUM CONCENTRATION
IN GROUNDWATER
JULY 1, 2004

DATE
05/16/05
NAME: SJA
FILE: 2-0108

Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 91.8 - MONITORING WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 7/1/04 AND 12/27/04

GRAPHIC SCALE IN FEET

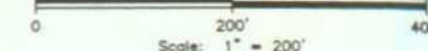


FIGURE #10

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

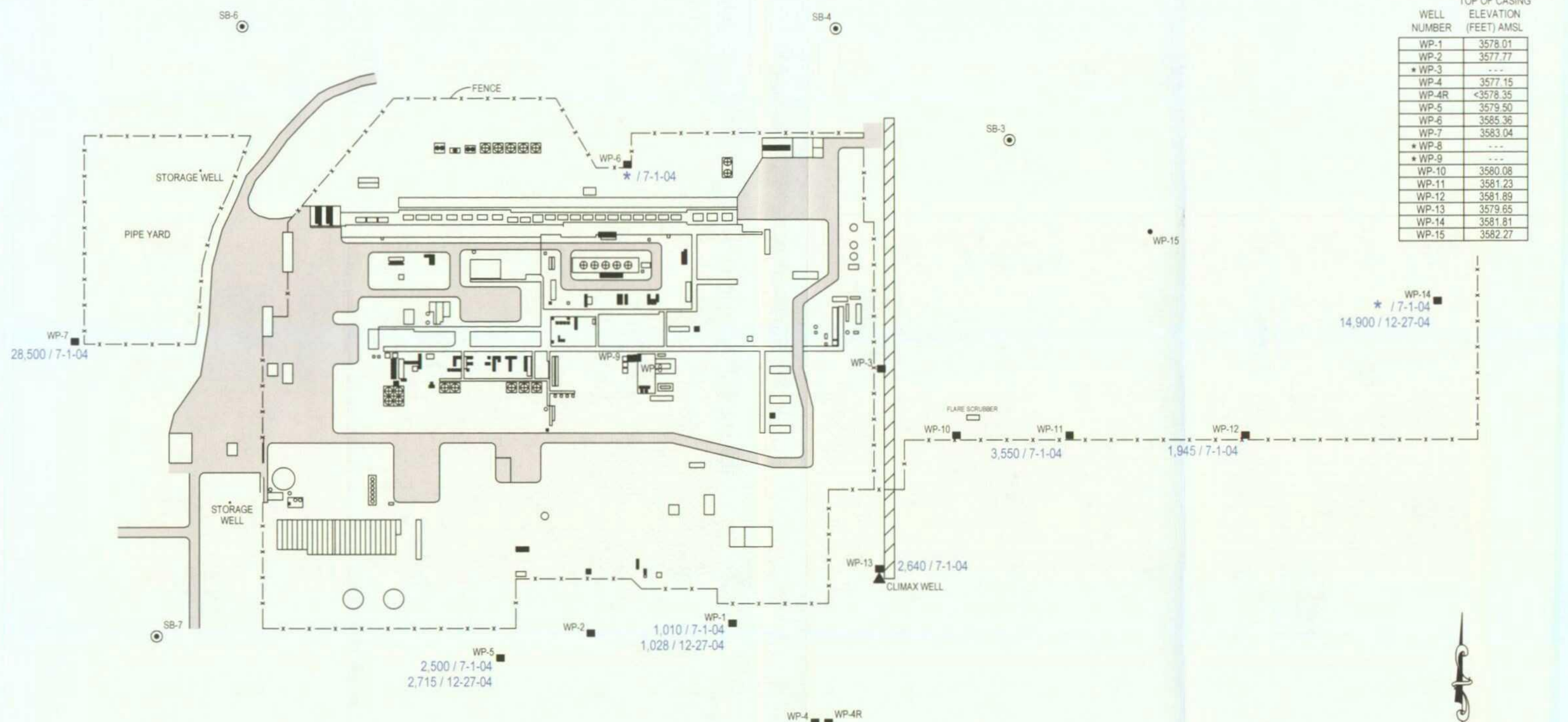
DATE: 05/16/05
NAME: SJA
FILE: 2-0108

CHLORIDE CONCENTRATION IN GROUNDWATER
JULY 1, 2004 AND DECEMBER 27, 2004

Larson & Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP OF CASING ELEVATION (FEET) AMSL
WP-1	3578.01
WP-2	3577.77
* WP-3	---
WP-4	3577.15
WP-4R	<3578.35
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
* WP-8	---
* WP-9	---
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND

- SB-7 - SOIL BORING LOCATION
- WP-1 1,010 - MONITORING WELL LOCATION AND TDS CONCENTRATION IN GROUNDWATER, (MG/L), 7/1/04 AND 12/27/04
- * - PHASE SEPARATED HYDROCARBONS PRESENT

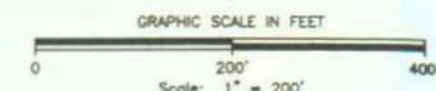


FIGURE # 11

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES L.P.
MONUMENT GAS PLANT

DATE
05/16/05
NAME: SJA
FILE: 2-0108

TDS CONCENTRATION IN GROUNDWATER
JULY 1, 2004 AND DECEMBER 27, 2004

Larson & Associates, Inc.
Environmental Consultants

APPENDIX A

APPENDIX A

Laboratory Reports

Summary Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: July 26, 2004

Work Order: 4070614

Project Name: Monument Gas Plant
Project Number: 2-0108

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
38067	WP-1	water	2004-07-01	09:55	2004-07-03
38068	WP-13	water	2004-07-01	10:36	2004-07-03
38069	WP-10	water	2004-07-01	11:03	2004-07-03
38070	WP-11	water	2004-07-01	11:45	2004-07-03
38071	WP-7	water	2004-07-01	12:25	2004-07-03
38072	WP-5	water	2004-07-01	13:02	2004-07-03
38075	Dup	water	2004-07-01	00:00	2004-07-03

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
38067 - WP-1	1.10	<0.0500	<0.0500	<0.0500
38068 - WP-13	0.586	<0.100	<0.100	<0.100
38069 - WP-10	1.98	<0.100	0.327	<0.100
38070 - WP-11	3.05	<0.500	<0.500	<0.500
38071 - WP-7	<0.00100	<0.00100	<0.00100	<0.00100
38072 - WP-5	2.85	<0.0500	<0.0500	<0.0500
38075 - Dup	1.91	<0.200	0.322	<0.200

Sample: 38067 - WP-1

Param	Flag	Result	Units	RL
Chloride		91.8	mg/L	0.500
Sulfate		< 5.00	mg/L	0.500
Total Dissolved Solids		1010	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		1.44	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38068 - WP-13

Report Date: July 26, 2004
2-0108

Work Order: 4070614
Monument Gas Plant

Page Number: 2 of 3

Param	Flag	Result	Units	RL
Chloride		642	mg/L	0.500
Sulfate		75.2	mg/L	0.500
Total Dissolved Solids		2640	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		1.19	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38069 - WP-10

Param	Flag	Result	Units	RL
Chloride		832	mg/L	0.500
Sulfate		106	mg/L	0.500
Total Dissolved Solids		3550	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		1.71	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38070 - WP-11

Param	Flag	Result	Units	RL
Chloride		482	mg/L	0.500
Sulfate		79.2	mg/L	0.500
Total Dissolved Solids		1945	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		0.0490	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38071 - WP-7

Param	Flag	Result	Units	RL
Chloride		7440	mg/L	0.500
Sulfate		3270	mg/L	0.500
Total Dissolved Solids		28500	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500

continued ...

sample 38071 continued ...

Param	Flag	Result	Units	RL
Total Barium		0.581	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38072 - WP-5

Param	Flag	Result	Units	RL
Chloride		427	mg/L	0.500
Sulfate		239	mg/L	0.500
Total Dissolved Solids		2500	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		1.19	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

Sample: 38075 - Dup

Param	Flag	Result	Units	RL
Chloride		930	mg/L	0.500
Sulfate		105	mg/L	0.500
Total Dissolved Solids		5400	mg/L	10.00
Total Silver		<0.00300	mg/L	0.00300
Total Arsenic		<0.00500	mg/L	0.00500
Total Barium		1.21	mg/L	0.0100
Total Cadmium		<0.00100	mg/L	0.00100
Total Chromium		<0.00500	mg/L	0.00500
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79932 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: July 26, 2004

Work Order: 4070614

Project Name: Monument Gas Plant
Project Number: 2-0108

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
38067	WP-1	water	2004-07-01	09:55	2004-07-03
38068	WP-13	water	2004-07-01	10:36	2004-07-03
38069	WP-10	water	2004-07-01	11:03	2004-07-03
38070	WP-11	water	2004-07-01	11:45	2004-07-03
38071	WP-7	water	2004-07-01	12:25	2004-07-03
38072	WP-5	water	2004-07-01	13:02	2004-07-03
38075	Dup	water	2004-07-01	00:00	2004-07-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 38067 - WP-1

Analysis: BTEX
QC Batch: 10875
Prep Batch: 9623

Analytical Method: S 8021B
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: S 5030B
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.10	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		<0.0500	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1	9.60	mg/L	50	0.200	96	71.2 - 115
4-Bromofluorobenzene (4-BFB)	2	7.28	mg/L	50	0.200	73	76.5 - 116

Sample: 38067 - WP-1

Analysis: Chloride (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		91.8	mg/L	5	0.500

Sample: 38067 - WP-1

Analysis: SO4 (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		< 5.00	mg/L	5	0.500

Sample: 38067 - WP-1

Analysis: TDS
QC Batch: 10974
Prep Batch: 9700

Analytical Method: SM 2540C
Date Analyzed: 2004-07-09
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: MW
Prepared By: MW

¹Changed spike amount from 0.1 to 0.2 due to prep; 2x normal surrogate amount was used.

²Changed spike amount from 0.1 to 0.2 due to prep; 2x normal surrogate amount was used/Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1010	mg/L	1	10.00

Sample: 38067 - WP-1

Analysis: Total 8 Metals	Analytical Method: S 7470A	Prep Method: N/A
QC Batch: 10946	Date Analyzed: 2004-07-09	Analyzed By: BC
Prep Batch: 9682	Date Prepared: 2004-07-09	Prepared By: BC
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 10967	Date Analyzed: 2004-07-11	Analyzed By: RR
Prep Batch: 9633	Date Prepared: 2004-07-07	Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		1.44	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38068 - WP-13

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 10875	Date Analyzed: 2004-07-06	Analyzed By: MS
Prep Batch: 9623	Date Prepared: 2004-07-06	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.586	mg/L	100	0.00100
Toluene		<0.100	mg/L	100	0.00100
Ethylbenzene		<0.100	mg/L	100	0.00100
Xylene		<0.100	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.27	mg/L	100	0.100	93	71.2 - 115
4-Bromofluorobenzene (4-BFB)	³	5.98	mg/L	100	0.100	60	76.5 - 116

Sample: 38068 - WP-13

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10914	Date Analyzed: 2004-07-06	Analyzed By: JT
Prep Batch: 9648	Date Prepared: 2004-07-06	Prepared By: JT

³Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		642	mg/L	50	0.500

Sample: 38068 - WP-13

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10914	Date Analyzed:	2004-07-06	Analyzed By:	JT
Prep Batch:	9648	Date Prepared:	2004-07-06	Prepared By:	JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		75.2	mg/L	50	0.500

Sample: 38068 - WP-13

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10974	Date Analyzed:	2004-07-09	Analyzed By:	MW
Prep Batch:	9700	Date Prepared:	2004-07-06	Prepared By:	MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2640	mg/L	1	10.00

Sample: 38068 - WP-13

Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	10946	Date Analyzed:	2004-07-09	Analyzed By:	BC
Prep Batch:	9682	Date Prepared:	2004-07-09	Prepared By:	BC
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	10967	Date Analyzed:	2004-07-11	Analyzed By:	RR
Prep Batch:	9633	Date Prepared:	2004-07-07	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		1.19	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38069 - WP-10

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	10875	Date Analyzed:	2004-07-06	Analyzed By:	MS
Prep Batch:	9623	Date Prepared:	2004-07-06	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.98	mg/L	100	0.00100
Toluene		<0.100	mg/L	100	0.00100
Ethylbenzene		0.327	mg/L	100	0.00100
Xylene		<0.100	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁴	18.2	mg/L	100	0.200	91	71.2 - 115
4-Bromofluorobenzene (4-BFB)	⁵	14.0	mg/L	100	0.200	70	76.5 - 116

Sample: 38069 - WP-10

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10914	Date Analyzed: 2004-07-06	Analyzed By: JT
Prep Batch: 9648	Date Prepared: 2004-07-06	Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		832	mg/L	100	0.500

Sample: 38069 - WP-10

Analysis: SO4 (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10914	Date Analyzed: 2004-07-06	Analyzed By: JT
Prep Batch: 9648	Date Prepared: 2004-07-06	Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		106	mg/L	100	0.500

Sample: 38069 - WP-10

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10974	Date Analyzed: 2004-07-09	Analyzed By: MW
Prep Batch: 9700	Date Prepared: 2004-07-06	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		3550	mg/L	1	10.00

Sample: 38069 - WP-10

Analysis: Total 8 Metals	Analytical Method: S 7470A	Prep Method: N/A
QC Batch: 10946	Date Analyzed: 2004-07-09	Analyzed By: BC
Prep Batch: 9682	Date Prepared: 2004-07-09	Prepared By: BC

⁴ Changed spike amount from 0.1 to 0.2 due to prep. 2x normal amount of surrogate was used.

⁵ Changed spike amount from 0.1 to 0.2 due to prep. 2x normal amount of surrogate was used/Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

Analysis: Total 8 Metals
QC Batch: 10967
Prep Batch: 9633

Analytical Method: S 6010B
Date Analyzed: 2004-07-11
Date Prepared: 2004-07-07

Prep Method: S 3010A
Analyzed By: RR
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		1.71	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38070 - WP-11

Analysis: BTEX
QC Batch: 10875
Prep Batch: 9623

Analytical Method: S 8021B
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: S 5030B
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.05	mg/L	500	0.00100
Toluene		<0.500	mg/L	500	0.00100
Ethylbenzene		<0.500	mg/L	500	0.00100
Xylene		<0.500	mg/L	500	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		47.1	mg/L	500	0.100	94	71.2 - 115
4-Bromofluorobenzene (4-BFB)	⁶	30.1	mg/L	500	0.100	60	76.5 - 116

Sample: 38070 - WP-11

Analysis: Chloride (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		482	mg/L	50	0.500

Sample: 38070 - WP-11

Analysis: SO4 (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

⁶Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		79.2	mg/L	50	0.500

Sample: 38070 - WP-11

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10974	Date Analyzed: 2004-07-09	Analyzed By: MW
Prep Batch: 9700	Date Prepared: 2004-07-06	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1945	mg/L	1	10.00

Sample: 38070 - WP-11

Analysis: Total 8 Metals	Analytical Method: S 7470A	Prep Method: N/A
QC Batch: 10946	Date Analyzed: 2004-07-09	Analyzed By: BC
Prep Batch: 9682	Date Prepared: 2004-07-09	Prepared By: BC
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 10967	Date Analyzed: 2004-07-11	Analyzed By: RR
Prep Batch: 9633	Date Prepared: 2004-07-07	Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		0.0490	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38071 - WP-7

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 10875	Date Analyzed: 2004-07-06	Analyzed By: MS
Prep Batch: 9623	Date Prepared: 2004-07-06	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0881	mg/L	1	0.100	88	71.2 - 115

continued...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)	7	0.0550	mg/L	1	0.100	55	76.5 - 116

Sample: 38071 - WP-7

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10914	Date Analyzed: 2004-07-06	Analyzed By: JT
Prep Batch: 9648	Date Prepared: 2004-07-06	Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7440	mg/L	1000	0.500

Sample: 38071 - WP-7

Analysis: SO4 (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10914	Date Analyzed: 2004-07-06	Analyzed By: JT
Prep Batch: 9648	Date Prepared: 2004-07-06	Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		3270	mg/L	1000	0.500

Sample: 38071 - WP-7

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10974	Date Analyzed: 2004-07-09	Analyzed By: MW
Prep Batch: 9700	Date Prepared: 2004-07-06	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		28500	mg/L	5	10.00

Sample: 38071 - WP-7

Analysis: Total 8 Metals	Analytical Method: S 7470A	Prep Method: N/A
QC Batch: 10946	Date Analyzed: 2004-07-09	Analyzed By: BC
Prep Batch: 9682	Date Prepared: 2004-07-09	Prepared By: BC
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 10967	Date Analyzed: 2004-07-11	Analyzed By: RR
Prep Batch: 9633	Date Prepared: 2004-07-07	Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300

continued ...

⁷Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

sample 38071 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		0.581	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38072 - WP-5

Analysis: BTEX
QC Batch: 10979
Prep Batch: 9704

Analytical Method: S 8021B
Date Analyzed: 2004-07-09
Date Prepared: 2004-07-09

Prep Method: S 5030B
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	8	2.85	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		<0.0500	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.03	mg/L	50	0.100	101	78.4 - 118
4-Bromofluorobenzene (4-BFB)		3.87	mg/L	50	0.100	77	53.1 - 149

Sample: 38072 - WP-5

Analysis: Chloride (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		427	mg/L	50	0.500

Sample: 38072 - WP-5

Analysis: SO4 (IC)
QC Batch: 10914
Prep Batch: 9648

Analytical Method: E 300.0
Date Analyzed: 2004-07-06
Date Prepared: 2004-07-06

Prep Method: N/A
Analyzed By: JT
Prepared By: JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		239	mg/L	50	0.500

⁸Sample was reanalyzed due to the benzene amount being over the curve.

Sample: 38072 - WP-5

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10974	Date Analyzed: 2004-07-09	Analyzed By: MW
Prep Batch: 9700	Date Prepared: 2004-07-06	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2500	mg/L	2	10.00

Sample: 38072 - WP-5

Analysis: Total 8 Metals	Analytical Method: S 7470A	Prep Method: N/A
QC Batch: 10946	Date Analyzed: 2004-07-09	Analyzed By: BC
Prep Batch: 9682	Date Prepared: 2004-07-09	Prepared By: BC
Analysis: Total 8 Metals	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 10967	Date Analyzed: 2004-07-11	Analyzed By: RR
Prep Batch: 9633	Date Prepared: 2004-07-07	Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		1.19	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 38075 - Dup

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 10875	Date Analyzed: 2004-07-06	Analyzed By: MS
Prep Batch: 9623	Date Prepared: 2004-07-06	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.91	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		0.322	mg/L	200	0.00100
Xylene		<0.200	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁹	38.5	mg/L	200	0.200	96	71.2 - 115
4-Bromofluorobenzene (4-BFB)	¹⁰	28.6	mg/L	200	0.200	72	76.5 - 116

⁹Changed spike amount from 0.1 to 0.2 due to prep. 2x normal amount of surrogate was used.

¹⁰Changed spike amount from 0.1 to 0.2 due to prep. 2x normal amount of surrogate was used/Low BFB surrogate recovery due to matrix interference. TFT surrogate recovery shows the method to be in control.

Report Date: July 26, 2004
2-0108

Work Order: 4070614
Monument Gas Plant

Page Number: 11 of 20

Sample: 38075 - Dup

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10916	Date Analyzed:	2004-07-06	Analyzed By:	JT
Prep Batch:	9650	Date Prepared:	2004-07-06	Prepared By:	JT

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		930	mg/L	1	0.500

Sample: 38075 - Dup

Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10916	Date Analyzed:	2004-07-06	Analyzed By:	JT
Prep Batch:	9650	Date Prepared:	2004-07-06	Prepared By:	JT

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		105	mg/L	1	0.500

Sample: 38075 - Dup

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10974	Date Analyzed:	2004-07-09	Analyzed By:	MW
Prep Batch:	9700	Date Prepared:	2004-07-06	Prepared By:	MW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		5400	mg/L	100	10.00

Sample: 38075 - Dup

Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	10946	Date Analyzed:	2004-07-09	Analyzed By:	BC
Prep Batch:	9682	Date Prepared:	2004-07-09	Prepared By:	BC
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	10967	Date Analyzed:	2004-07-11	Analyzed By:	RR
Prep Batch:	9633	Date Prepared:	2004-07-07	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00300	mg/L	1	0.00300
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		1.21	mg/L	1	0.0100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.0100	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100

Method Blank (1) QC Batch: 10875

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0940	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)	¹¹	0.0607	mg/L	1	0.100	61	70 - 130

Method Blank (1) QC Batch: 10914

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 10914

Parameter	Flag	Result	Units	RL
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 10916

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 10916

Parameter	Flag	Result	Units	RL
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 10946

Parameter	Flag	Result	Units	RL
Total Mercury		<0.000200	mg/L	0.0002

¹¹ Low BFB surrogate recovery due to prep. TFT surrogate recovery shows the method to be in control.

Method Blank (1) QC Batch: 10967

Parameter	Flag	Result	Units	RL
Total Silver		<0.00300	mg/L	0.003
Total Arsenic		<0.00500	mg/L	0.005
Total Barium		<0.0100	mg/L	0.01
Total Cadmium		<0.00100	mg/L	0.001
Total Chromium		<0.00500	mg/L	0.005
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0100	mg/L	0.01

Method Blank (1) QC Batch: 10974

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 10979

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0979	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0767	mg/L	1	0.100	77	70 - 130

Duplicate (1) QC Batch: 10974

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	996.0	1010	mg/L	1	1	8.7

Laboratory Control Spike (LCS-1) QC Batch: 10875

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0993	0.0988	mg/L	1	0.100	<0.000255	99	0	70 - 130	20
Toluene	0.0999	0.0988	mg/L	1	0.100	<0.000153	100	1	70 - 130	20
Ethylbenzene	0.0998	0.0991	mg/L	1	0.100	<0.000226	100	1	70 - 130	20
Xylene	0.301	0.299	mg/L	1	0.300	<0.000531	100	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0918	0.0935	mg/L	1	0.100	92	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0857	0.0863	mg/L	1	0.100	86	86	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 10946

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.00106	0.00112	mg/L	1	0.00100	<0.0000329	106	6	82 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 10967

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.124	0.132	mg/L	1	0.125	<0.00274	99	6	85 - 115	20
Total Arsenic	0.527	0.492	mg/L	1	0.500	<0.00489	105	7	85 - 115	20
Total Barium	1.01	1.03	mg/L	1	1.00	<0.000450	101	2	85 - 114	20
Total Cadmium	0.240	0.244	mg/L	1	0.250	<0.000268	96	2	86 - 115	20
Total Chromium	0.104	0.102	mg/L	1	0.100	<0.00357	104	2	85 - 115	20
Total Lead	0.561	0.558	mg/L	1	0.500	<0.00698	112	0	86.1 - 112	20
Total Selenium	0.467	0.513	mg/L	1	0.500	<0.00556	93	9	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 10979

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0875	0.0881	mg/L	1	0.100	<0.000136	88	1	70 - 130	20
Toluene	0.0888	0.0897	mg/L	1	0.100	<0.000247	89	1	70 - 130	20
Ethylbenzene	0.0946	0.0956	mg/L	1	0.100	<0.000550	95	1	70 - 130	20
Xylene	0.316	0.320	mg/L	1	0.300	<0.00156	105	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.103	mg/L	1	0.100	102	103	70 - 130
4-Bromofluorobenzene (4-BFB)	0.109	0.108	mg/L	1	0.100	109	108	70 - 130

Matrix Spike (MS-1) QC Batch: 10914

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	147	147	mg/L	5	12.5	91.8	88	0	74.3 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 10914

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	59.4	58.9	mg/L	5	12.5	<2.05	95	1	77.8 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 10916

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	85.0	85.7	mg/L	5	12.5	27.7	92	1	74.3 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 10916

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	102	102	mg/L	5	12.5	45.6	90	0	77.8 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 10946

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.00112	0.00113	mg/L	1	0.00100	<0.0000329	112	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) QC Batch: 10946

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.00109	0.00111	mg/L	1	0.00100	<0.0000329	109	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 10967

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.137	0.131	mg/L	1	0.125	<0.00274	110	4	75 - 125	20
Total Arsenic	0.583	0.486	mg/L	1	0.500	<0.00489	117	18	75 - 125	20
Total Barium	1.07	1.05	mg/L	1	1.00	<0.000450	107	2	75 - 125	20
Total Cadmium	0.240	0.235	mg/L	1	0.250	<0.000268	96	2	75 - 125	20
Total Chromium	0.103	0.102	mg/L	1	0.100	<0.00357	103	1	75 - 125	20
Total Lead	0.552	0.552	mg/L	1	0.500	<0.00698	110	0	75 - 125	20
Total Selenium	0.465	0.508	mg/L	1	0.500	<0.00556	93	9	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1) QC Batch: 10875

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0985	98	85 - 115	2004-07-06
Toluene		mg/L	0.100	0.0988	99	85 - 115	2004-07-06
Ethylbenzene		mg/L	0.100	0.0987	99	85 - 115	2004-07-06
Xylene		mg/L	0.300	0.298	99	85 - 115	2004-07-06

Standard (CCV-2) QC Batch: 10875

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0957	96	85 - 115	2004-07-06
Toluene		mg/L	0.100	0.0954	95	85 - 115	2004-07-06
Ethylbenzene		mg/L	0.100	0.0953	95	85 - 115	2004-07-06
Xylene		mg/L	0.300	0.288	96	85 - 115	2004-07-06

Standard (CCV-1) QC Batch: 10914

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2004-07-06

Standard (CCV-1) QC Batch: 10914

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.8	102	90 - 110	2004-07-06

Standard (CCV-2) QC Batch: 10914

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2004-07-06

Standard (CCV-2) QC Batch: 10914

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.4	91	90 - 110	2004-07-06

Standard (CCV-1) QC Batch: 10916

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2004-07-06

Standard (CCV-1) QC Batch: 10916

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.3	90	90 - 110	2004-07-06

Standard (CCV-2) QC Batch: 10916

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2004-07-06

Standard (CCV-2) QC Batch: 10916

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.3	90	90 - 110	2004-07-06

Standard (ICV-1) QC Batch: 10946

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.00106	106	80 - 120	2004-07-09

Standard (CCV-1) QC Batch: 10946

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000930	93	80 - 120	2004-07-09

Standard (CCV-2) QC Batch: 10946

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000930	93	80 - 120	2004-07-09

Standard (ICV-1) QC Batch: 10967

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.124	99	90 - 110	2004-07-11
Total Arsenic		mg/L	1.00	1.01	101	90 - 110	2004-07-11
Total Barium		mg/L	1.00	0.987	99	90 - 110	2004-07-11
Total Cadmium		mg/L	1.00	0.996	100	90 - 110	2004-07-11
Total Chromium		mg/L	1.00	0.998	100	90 - 110	2004-07-11
Total Lead		mg/L	1.00	1.02	102	90 - 110	2004-07-11
Total Selenium		mg/L	1.00	1.03	103	90 - 110	2004-07-11

Standard (CCV-1) QC Batch: 10967

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.122	98	90 - 110	2004-07-11
Total Arsenic		mg/L	1.00	0.991	99	90 - 110	2004-07-11
Total Barium		mg/L	1.00	0.999	100	90 - 110	2004-07-11
Total Cadmium		mg/L	1.00	0.983	98	90 - 110	2004-07-11
Total Chromium		mg/L	1.00	0.988	99	90 - 110	2004-07-11
Total Lead		mg/L	1.00	0.973	97	90 - 110	2004-07-11
Total Selenium		mg/L	1.00	1.00	100	90 - 110	2004-07-11

Standard (ICV-1) QC Batch: 10974

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	995.0	100	90 - 110	2004-07-09

Standard (CCV-1) QC Batch: 10974

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1000	100	90 - 110	2004-07-09

Standard (ICV-1) QC Batch: 10979

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0893	89	85 - 115	2004-07-09
Toluene		mg/L	0.100	0.0901	90	85 - 115	2004-07-09
Ethylbenzene		mg/L	0.100	0.0969	97	85 - 115	2004-07-09
Xylene		mg/L	0.300	0.324	108	85 - 115	2004-07-09

Standard (CCV-1) QC Batch: 10979

Report Date: July 26, 2004
2-0108

Work Order: 4070614
Monument Gas Plant

Page Number: 19 of 20

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene	¹²	mg/L	0.100	0.0837	84	85 - 115	2004-07-09
Toluene		mg/L	0.100	0.0855	86	85 - 115	2004-07-09
Ethylbenzene		mg/L	0.100	0.0903	90	85 - 115	2004-07-09
Xylene		mg/L	0.300	0.304	101	85 - 115	2004-07-09

¹²Benzene outside normal limits in ICV/CCV. Average of ICV/CCV components within acceptable range.

CLIENT NAME:		SITE MANAGER:		PROJECT NO.:		PROJECT NAME:		LAB. PO #		PAGE: 1 OF 1	
PROJECT NO.:		PROJECT NAME:		LAB. PO #		PAGE: 1 OF 1		LAB. PO #		PAGE: 1 OF 1	
DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARA-METERS/METHOD NUMBER	CHAIN—OF—CUSTODY RECORD			
7/1	0955	✓			WP-1 38067	4	1	LARSON & ASSOCIATES, INC. Fox: 432-687-0456 Environmental Consultants 432-687-0901 507 N. Marienfeld, Ste. 202 • Midland, TX 79701			
1036		✓			WP-13 608	1	1	LAB. I.D. NUMBER (LAB USE ONLY)			
1143		✓			WP-10 109	1	1	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)			
1143		✓			WP-11 70	1	1	Materials filtered, preserved			
1225		✓			WP-7 71	1	1				
1302		✓			WP-5 72	1	1				
SAMPLED BY: (Signature)		DATE: 7/1/01		TIME: 1315		RECEIVED BY: (Signature)		DATE: 07/02/01		TIME: 1515	
RELINQUISHED BY: (Signature)		DATE: 7/1/01		TIME: 1730		RECEIVED BY: (Signature)		DATE: 07/02/01		TIME: 1515	
COMMENTS:		TURNAROUND TIME NEEDED		TURNAROUND TIME		FEDX		AIRBILL #:		OTHER:	
RECEIVING LABORATORY: Green Analytical		RECEIVED BY: (Signature)		DATE: 7-3-01		TIME: 11:00		HAND DELIVERED		UPS	
ADDRESS: 2001 10th St		CITY: Austin		STATE: TX		ZIP: 78701		WHITE - RECEIVING LAB		YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)	
CONTACT: 2001 10th St		PHONE: 512-441-1111		DATE: 7-3-01		TIME: 11:00		PINK - PROJECT MANAGER		GOLD - QA/QC COORDINATOR	
SAMPLE CONDITION WHEN RECEIVED:		LA CONTACT PERSON: Linda		SAMPLE TYPE: BUS		1661305371					

[illegible]

Report Date: January 3, 2005
2-0108

Work Order: 4122915
Monument Gas Plant

Page Number: 1 of 2

Summary Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: January 3, 2005

Work Order: 4122915

Project Name: Monument Gas Plant
Project Number: 2-0108

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
51676	WP-1	water	2004-12-27	00:00	2004-12-29
51677	WP-5	water	2004-12-27	00:00	2004-12-29
51678	WP-14	water	2004-12-27	00:00	2004-12-29
51679	Dup #1	water	2004-12-27	00:00	2004-12-29

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
51676 - WP-1	1.73	<0.0500	<0.0500	<0.0500
51677 - WP-5	2.74	<0.0200	<0.0200	<0.0200
51678 - WP-14	0.199	<0.0200	<0.0200	<0.0200
51679 - Dup #1	2.45	<0.0200	<0.0200	<0.0200

Sample: 51676 - WP-1

Param	Flag	Result	Units	RL
Chloride		<5.00	mg/L	0.500
Sulfate		<5.00	mg/L	0.500
Total Dissolved Solids		1028	mg/L	10.00

Sample: 51677 - WP-5

Param	Flag	Result	Units	RL
Chloride		584	mg/L	0.500
Sulfate		475	mg/L	0.500
Total Dissolved Solids		2715	mg/L	10.00

Sample: 51678 - WP-14

Param	Flag	Result	Units	RL
Chloride		7740	mg/L	0.500
Sulfate		2380	mg/L	0.500

continued ...

Report Date: January 3, 2005
2-0108

Work Order: 4122915
Monument Gas Plant

Page Number: 2 of 2

sample 51678 continued ...

Param	Flag	Result	Units	RL
Total Dissolved Solids		14900	mg/L	10.00

Sample: 51679 - Dup #1

Param	Flag	Result	Units	RL
Chloride		653	mg/L	0.500
Sulfate		477	mg/L	0.500
Total Dissolved Solids		2625	mg/L	10.00

TRACE ANALYSIS, INC.

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Lubbock, Texas 79424
El Paso, Texas 79932

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E-Mail: lab@traceanalysis.com

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: January 3, 2005

Work Order: 4122915

Project Name: Monument Gas Plant
Project Number: 2-0108

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
51676	WP-1	water	2004-12-27	00:00	2004-12-29
51677	WP-5	water	2004-12-27	00:00	2004-12-29
51678	WP-14	water	2004-12-27	00:00	2004-12-29
51679	Dup #1	water	2004-12-27	00:00	2004-12-29

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 51676 - WP-1

Analysis: BTEX
QC Batch: 15012
Prep Batch: 13246

Analytical Method: S 8021B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.73	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		<0.0500	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.22	mg/L	50	0.100	84	48.4 - 119
4-Bromofluorobenzene (4-BFB)		3.80	mg/L	50	0.100	76	17.1 - 138

Sample: 51676 - WP-1

Analysis: Chloride (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<5.00	mg/L	10	0.500

Sample: 51676 - WP-1

Analysis: SO4 (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<5.00	mg/L	10	0.500

Sample: 51676 - WP-1

Analysis: TDS
QC Batch: 15066
Prep Batch: 13271

Analytical Method: SM 2540C
Date Analyzed: 2004-12-31
Date Prepared: 2004-12-30

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1028	mg/L	2	10.00

Sample: 51677 - WP-5

Analysis: BTEX
QC Batch: 15012
Prep Batch: 13246

Analytical Method: S 8021B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		2.74	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		<0.0200	mg/L	20	0.00100
Xylene		<0.0200	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/L	20	0.100	104	48.4 - 119
4-Bromofluorobenzene (4-BFB)		1.41	mg/L	20	0.100	70	17.1 - 138

Sample: 51677 - WP-5

Analysis: Chloride (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		584	mg/L	100	0.500

Sample: 51677 - WP-5

Analysis: SO4 (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		475	mg/L	10	0.500

Sample: 51677 - WP-5

Analysis: TDS
QC Batch: 15066
Prep Batch: 13271

Analytical Method: SM 2540C
Date Analyzed: 2004-12-31
Date Prepared: 2004-12-30

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2715	mg/L	5	10.00

Sample: 51678 - WP-14

Analysis: BTEX
QC Batch: 15012
Prep Batch: 13246

Analytical Method: S 8021B
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.199	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		<0.0200	mg/L	20	0.00100
Xylene		<0.0200	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.33	mg/L	20	0.100	116	48.4 - 119
4-Bromofluorobenzene (4-BFB)		1.72	mg/L	20	0.100	86	17.1 - 138

Sample: 51678 - WP-14

Analysis: Chloride (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7740	mg/L	1000	0.500

Sample: 51678 - WP-14

Analysis: SO4 (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		2380	mg/L	100	0.500

Sample: 51678 - WP-14

Analysis: TDS
QC Batch: 15066
Prep Batch: 13271

Analytical Method: SM 2540C
Date Analyzed: 2004-12-31
Date Prepared: 2004-12-30

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		14900	mg/L	100	10.00

Sample: 51679 - Dup #1

Analysis: BTEX
QC Batch: 15047

Analytical Method: S 8021B
Date Analyzed: 2004-12-30

Prep Method: S 5030B
Analyzed By: MT

Prep Batch: 13267

Date Prepared: 2004-12-30

Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	1	2.45	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		<0.0200	mg/L	20	0.00100
Xylene		<0.0200	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.92	mg/L	20	0.100	96	73.8 - 121
4-Bromofluorobenzene (4-BFB)		1.42	mg/L	20	0.100	71	52.4 - 119

Sample: 51679 - Dup #1

Analysis: Chloride (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		653	mg/L	100	0.500

Sample: 51679 - Dup #1

Analysis: SO4 (IC)
QC Batch: 15019
Prep Batch: 13251

Analytical Method: E 300.0
Date Analyzed: 2004-12-29
Date Prepared: 2004-12-29

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		477	mg/L	10	0.500

Sample: 51679 - Dup #1

Analysis: TDS
QC Batch: 15066
Prep Batch: 13271

Analytical Method: SM 2540C
Date Analyzed: 2004-12-31
Date Prepared: 2004-12-30

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2625	mg/L	5	10.00

Method Blank (1) QC Batch: 15012

¹Sample was reanalyzed due to the benzene amount being over the curve.

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0690	mg/L	1	0.100	69	17.1 - 138

Method Blank (1) QC Batch: 15019

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 15019

Parameter	Flag	Result	Units	RL
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 15047

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0945	mg/L	1	0.100	94	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0704	mg/L	1	0.100	70	52.4 - 113

Method Blank (1) QC Batch: 15066

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Duplicate (1) QC Batch: 15066

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	2690	2625	mg/L	5	2	20

Laboratory Control Spike (LCS-1) QC Batch: 15012

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.101	0.107	mg/L	1	0.100	<0.000650	101	6	81.9 - 114	20
Toluene	0.100	0.104	mg/L	1	0.100	<0.00101	100	4	82.8 - 112	20
Ethylbenzene	0.101	0.102	mg/L	1	0.100	<0.000840	101	1	82.2 - 111	20
Xylene	0.313	0.317	mg/L	1	0.300	<0.000737	104	1	83.5 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0921	0.112	mg/L	1	0.100	92	112	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.0949	0.105	mg/L	1	0.100	95	105	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 15019

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.9	12.0	mg/L	1	12.5	<0.337	95	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 15019

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	12.4	12.3	mg/L	1	12.5	<0.409	99	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 15047

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0946	0.0917	mg/L	1	0.100	<0.000136	95	3	72.8 - 113	20
Toluene	0.0942	0.0905	mg/L	1	0.100	<0.000247	94	4	75.2 - 112	20
Ethylbenzene	0.0989	0.0947	mg/L	1	0.100	<0.000550	99	4	81 - 112	20
Xylene	0.319	0.306	mg/L	1	0.300	<0.00156	106	4	82.9 - 119	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0950	0.0955	mg/L	1	0.100	95	96	72.9 - 121
4-Bromofluorobenzene (4-BFB)	0.112	0.112	mg/L	1	0.100	112	112	77.8 - 119

Matrix Spike (MS-1) QC Batch: 15019 Spiked Sample: 51679

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	635	638	mg/L	10	12.5	513	98	0	84.7 - 100.6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 15019 Spiked Sample: 51679

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	594	599	mg/L	10	12.5	477	94	1	80.1 - 111.2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1) QC Batch: 15012

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2004-12-29
Toluene		mg/L	0.100	0.0983	98	85 - 115	2004-12-29
Ethylbenzene		mg/L	0.100	0.0946	95	85 - 115	2004-12-29
Xylene		mg/L	0.300	0.296	99	85 - 115	2004-12-29

Standard (CCV-2) QC Batch: 15012

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2004-12-29
Toluene		mg/L	0.100	0.112	112	85 - 115	2004-12-29
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2004-12-29
Xylene		mg/L	0.300	0.331	110	85 - 115	2004-12-29

Standard (ICV-1) QC Batch: 15019

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2004-12-29

Standard (ICV-1) QC Batch: 15019

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.4	99	90 - 110	2004-12-29

Standard (CCV-1) QC Batch: 15019

[illegible]

[illegible]

**ANNUAL GROUNDWATER MONITORING REPORT
MONUMENT GAS PLANT
LEA COUNTY, NEW MEXICO**

RECEIVED

Prepared for:

**Dynegy Midstream Services, L.P.
P.O. Box 67
Monument, New Mexico 88265
(505) 393-2823**

MAR 20 2003

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

Prepared by:

**Larson and Associates, Inc.
507 North Marienfeld Street
Suite 202
Midland, Texas 79701
(915) 687-0901**

March 11, 2002



Mark J. Larson, CPG, CGWP

Table of Contents

<u>Section</u>	<u>Page</u>
TABLE OF CONTENTS	i
LIST OF TABLES	ii
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
1.0 INTRODUCTION	1
2.0 2002 GROUNDWATER MONITORING	1
2.1 <u>Depth-to-Groundwater</u>	1
2.2 <u>PSH Thickness</u>	2
2.3 <u>Groundwater Samples</u>	3
3.0 CONCLUSIONS	4

Tables

Table

- 1. Depth-to-Groundwater Measurements**
- 2. Summary of BTEX in Groundwater Samples**
- 3. Summary of Metals Analysis of Groundwater Samples**
- 4. Summary of Inorganic Analysis of Groundwater Samples**

List of Figures

Figure

- 1. Site Location and Topographic Map**
- 2. Site Drawing**
- 3. Groundwater Potentiometric Surface Map, June 6, 2002**
- 4. Groundwater Potentiometric Surface Map, December 19, 2002**
- 5. Apparent PSH Thickness Map, June 6, 2002**
- 6. Apparent PSH Thickness Map, December 19, 2002**
- 7. Isopleth Map of Benzene Concentration in Groundwater, June 6 – 7, 2002**
- 8. Isopleth Map of Chloride Concentration in Groundwater, June 6 – 7, 2002**

List of Appendices

Appendix

- A. Environmental lab of Texas, Ltd. Report**

Annual Groundwater Monitoring Report
Dynegy Midstream Services, L.P., Monument Gas Plant
(GW-025)
Lea County, New Mexico

1.0 INTRODUCTION

Dynegy Midstream Services, L.P. (Dynegy) has retained Larson and Associates, Inc. (LA) to conduct quarterly and semi-annual groundwater monitoring at its Monument Gas Plant (Site) located approximately 2.6 miles southeast of Monument, New Mexico. The Site is situated in Unit Letter N (SE/4, SW/4), Section 36, Township 19 South, Range 36 East, Lea County, New Mexico. Figure 1 presents a location and topographic map. Figure 2 presents a Site drawing.

On March 5, 1998, the New Mexico Oil Conservation Division (NMOCD) established groundwater monitoring at the Site that included the following:

- Measuring depth-to-groundwater and phase-separated hydrocarbon (PSH) thickness in thirteen (13) monitoring wells on a quarterly (4 times per year) schedule;
- Collecting groundwater samples from six (6) monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13 and WP-14) during the first semi-annual sampling event (June 2002) for benzene, toluene, ethylbenzene, xylene (collectively referred to as BTEX), chloride, total dissolved solids (TDS), sulfate, and dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) analysis;
- Collecting groundwater samples from three (3) down gradient monitoring wells (WP-1, WP-5 and WP-14) during the second semi-annual sampling event (December 2002) for BTEX, chloride, TDS, and sulfate analysis; and
- Preparing an annual report for submittal to the NMOCD.

2.0 2002 GROUNDWATER MONITORING

2.1 Depth-to-Groundwater

Depth-to-groundwater was measured in all monitoring wells, except WP-3, WP-8 and WP-9, on April 26, 2002, June 6, 2002, September 30, 2002 and December 19, 2002. Measurements were recorded using an electronic water level meter and interface probe that distinguishes between water and oil. The probe was cleaned thoroughly between wells using a solution of distilled water and

Dynegy Midstream Services, L.P., Monument Gas Plant

laboratory-grade detergent, and rinsed with distilled water. No measurements were recorded from wells WP-3, WP-8 and WP-9, since the wells area currently used for corrosion (cathodic) protection.

The depth-to-groundwater was recorded at the top of the well casing which has been previously surveyed for elevation by a New Mexico registered professional land surveyor. Table 1 presents a summary of the depth-to-groundwater measurements.

Referring to Table 1, no significant variations in depth-to-groundwater was observed, except a decrease in water level from well WP-2. Groundwater was not detected in well WP-2 on September 30, 2002 and December 19, 2002, indicating that the aquifer level had decreased below the well screen. Measurements from the second quarter (June 6, 2002) and fourth quarter (December 19, 2002) were corrected for PSH, and used to prepare groundwater potentiometric surface maps. Figure 3 and Figure 4 present groundwater potentiometric surface maps for June 6, 2002 and December 19, 2002, respectively.

Referring to Figure 3, the elevation of the groundwater surface on June 6, 2002, ranged from approximately 3,556.61 feet above mean sea level (AMSL) at well WP-6 (upgradient) to 3,539.41 feet AMSL t well WP-14 (downgradient). Groundwater flow was from north-northwest to south – southeast at a gradient from about 0.011 to 0.012 feet per foot. Referring to Figure 4, the elevation of the groundwater surface on December 19, 2002, ranged from about 3,556.50 feet AMSL at well WP-6 (upgradient) to 3,539.72 feet AMSL at well WP-14 (downgradient). Groundwater flow was north - northwest to south - southeast at a gradient from 0.010 to 0.013 feet per foot. No significant variations in groundwater flow or gradient were observed between current or previous events.

2.2 PSH Thickness

PSH was measured in the wells using an electronic interface probe, and was detected in wells WP-4 (0.31 to 0.44 feet), WP-6 (0.04 to 0.30 feet), WP-10 (0.02 and 0.03 feet), WP-12 (0.22 to 0.52 feet), WP-14 (0.10 to 0.18 feet) and WP-15 (0.55 to 0.72 feet). PSH was evident in well WP-10 during the first (April 26, 2002) and second (June 6, 2002) quarterly monitoring events. The PSH

Dynegy Midstream Services, L.P., Monument Gas Plant

measurements have indicated that migration off the Site boundary may have occurred at locations WP-4, WP-12 and WP-14. The data also suggests that the PSH observed in well WP-6 might be associated with an upgradient source located north of the well. The nearest potential upgradient source may be a producing oil well located about 75 feet north of the well. Figure 5 and Figure 6 presents maps of apparent PSH thickness and distribution for June 6, 2002 and December 19, 2002, respectively.

2.3 Groundwater Samples

On June 6 – 7, 2002, groundwater samples were collected from wells WP-1, WP-5, WP-6, WP-7, WP-13 and WP-14 for BTEX, dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), chloride, sulfate and TDS analysis. On December 19, 2002, groundwater samples were collected from wells WP-1, WP-5 and WP-14 for BTEX, chloride, sulfate and TDS analysis. Table 2 presents a summary of the BTEX analysis. Table 3 presents a summary of the dissolved metals analysis. Table 4 presents a summary of the chloride, sulfate and TDS analysis. Appendix A presents the laboratory report.

Referring to Table 2, benzene exceeded the New Mexico Water Quality Control Commission (NMWQCC) human health standard of 0.01 milligrams per liter (mg/L) in groundwater samples from wells WP-1, WP-5, WP-6, WP-13, and WP-14 during the June 2002 event. The benzene concentrations ranged from 0.012 mg/L (WP-14) to 1.93 mg/L (WP-1). Concentrations of benzene exceeded the NMWQCC standard in wells WP-1, WP-5 and WP-14 during the December 2002 event, and ranged from 0.025 mg/L (WP-14) to 2.24 mg/L (WP-1). The benzene concentrations in groundwater from wells WP-1 and WP-5 indicate an increasing concentration trend over time, based on historical data. The concentrations of toluene, ethylbenzene and xylene reported in the groundwater samples were below the NMWQCC standards during the June and December 2002 semi-annual events. Figure 7 presents an isopleth map showing the distribution of benzene in groundwater on June 6 – 7, 2002.

Dynegy Midstream Services, L.P., Monument Gas Plant

Referring to Table 3, arsenic, barium and cadmium were the only metals detected in the groundwater samples on June 6 – 7, 2002. Barium was the only metal that exceeded a NMWQCC human health standard (1.0 mg/L), and was reported in samples from WP-1 (1.9 mg/L) and WP-13 (1.63 mg/L). The barium concentrations in groundwater from wells WP-1 and WP-13 are lower than data that was previously reported to the NMOCD.

Referring to Table 4, the background concentration reported for chloride, sulfate and TDS in groundwater from well WP-6 on June 6 – 7, 2002, were 1,600 mg/L, 147 mg/L and 4,410 mg/L, respectively. The NMWQCC has established domestic water quality standards for chloride, sulfate and TDS at 250 mg/L, 600 mg/L and 1000 mg/L, respectively. The concentrations of chloride reported in samples from wells WP-5, WP-7, WP-13 and WP-14 exceeded the NMWQCC standard. The chloride level in the sample from well WP-13 was below the background concentration. The sulfate concentrations reported in samples from wells WP-5, WP-7 and WP-14 exceeded the NMWQCC standard, and background. The chloride and sulfate concentrations in groundwater from wells WP-5 and WP-7 have decreased from historical levels previously reported to the NMOCD. Figure 8 presents an isopleth map showing the distribution of chloride in groundwater on June 6 – 7, 2002.

Concentrations of TDS exceeded the NMWQCC domestic water quality standard and background samples from wells WP-5, WP-7, WP-13 and WP-14. The TDS concentration in water from well WP-14 suggests that the TDS concentration has risen over time, when compared to the historical data.

3.0 CONCLUSIONS

1. No significant variations in depth-to-groundwater was observed, and groundwater flow was generally north - northwest to south - southeast at a gradient from 0.010 to 0.013 feet per foot.

Dynegy Midstream Services, L.P., Monument Gas Plant

2. PSH was observed in wells WP-4 (0.31 to 0.44 feet), WP-6 (0.04 to 0.30 feet), WP-10 (0.02 and 0.03 feet), WP-12 (0.22 to 0.52 feet), WP-14 (0.10 to 0.18 feet) and WP-15 (0.55 to 0.72 feet).
3. The measurements indicated that PSH has migrated off the Site boundary at locations WP-4, WP-12 and WP-14.
4. The data suggests that PSH observed in well WP-6 may be associated with an upgradient source located north of the well, and nearest potential upgradient source may be a producing oil well located about 75 feet north of well WP-6.
5. Benzene exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 0.01 milligrams per liter (mg/L) in groundwater samples from wells WP-1, WP-5, WP-6, WP-13, and WP-14 during the June 200 event. Benzene exceeded the NMWQCC standard in wells WP-1, WP-5 and WP-14 during the December 2002 event. The benzene concentrations in groundwater from wells WP-1 and WP-5 indicate an increasing concentration trend over time, based on historical data.
6. Concentrations of toluene, ethylbenzene and zylene in groundwater samples were below the NMWQCC standards during the June and December 2002 semi-annual events.
7. Barium was the only metal that exceeded a NMWQCC human health standard (1.0 mg/L), and was reported in samples from WP-1 (1.9 mg/L) and WP-13 (1.63 mg/L). The barium concentrations in groundwater from wells WP-1 and WP-13 are lower than data that was previously reported to the NMOCD.
8. The concentrations of chloride reported in samples from wells WP-5, WP-7, WP-13 and WP-14 exceeded the NMWQCC standard. The chloride level in the sample from well WP-13

Dynegy Midstream Services, L.P., Monument Gas Plant

was below the background concentration. The chloride concentrations in wells WP-5 and WP-7 have decreased from historical levels previously reported to the NMOCD.

9. The sulfate concentrations reported in samples from wells WP-5, WP-7 and WP-14 exceeded the NMWQCC standard, and background. The sulfate concentrations in wells WP-5 and WP-7 have decreased from historical levels previously reported to the NMOCD.
- 10 Concentrations of TDS exceeded the NMWQCC domestic water quality standard and background in samples from wells WP-5, WP-7, WP-13 and WP-14. The TDS concentration in water from well WP-14 suggests that the TDS concentration has risen over time, when compared to the historical data.

TABLES

TABLES

Table 1
Depth-to-Groundwater Measurements
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 1

Monitoring Well	1st Quarter 2002 (26-April-02)	2nd Quarter 2002 (06-June-02)	3rd Quarter 2002 (30-Sept-02)	4th Quarter 2002 (19-Dec-02)
WP-1	27.42	27.55	24.15	24.64
WP-2	31.09	31.14	>31.80	>31.80
*WP-3	--	--	--	--
WP-4	**35.75 (0.35')	*35.77 (0.31')	**36.07 (0.44')	**36.28 (0.44')
WP-5	31.61	31.56	33.03	33.75
WP-6	**28.77 (0.06')	**28.75 (0.10')	**28.74 (0.04')	**28.86 (0.30')
WP-7	29.45	30.11	31.38	31.80
*WP-8	--	--	--	--
*WP-9	--	--	--	--
WP-10	**27.13 (0.02')	**27.04 (0.03')	26.00	25.71
WP-11	28.31	28.24	27.21	26.90
WP-12	**38.36 (0.50')	**38.36 (0.52')	**38.14 (0.47')	**37.81 (0.22')
WP-13	28.19	28.24	25.90	26.58
WP-14	**42.41 (0.14')	**42.40 (0.18')	**42.22 (0.10')	**42.09 (0.13')
WP-15	**32.31 (0.72')	**32.32 (0.71')	**32.06 (0.67')	**31.85 (0.55')

Notes: All measurements recorded in feet below top of PVC well casing.

1. *: Converted to cathodic protection well
2. **: Corrected for phase separated hydrocarbon
3. (0.04)': Hydrocarbon product thickness in feet
3. >: Depth-to-groundwater exceeds depth of well

Table 2
Summary of BTEX in Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico

Page 1 of 1

Monitoring Well	Quarter/Year	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
WP-1	2nd 2002	06-June-02	1.93	<0.010	0.032	<0.020
	4th 2002	19-Dec-02	2.24	<0.100	0.161	0.151
WP-5	2nd 2002	06-June-02	0.089	0.002	<0.001	<0.002
	4th 2002	19-Dec-02	0.339	0.002	<0.001	0.003
WP-6	2nd 2002	07-June-02	0.021	0.004	0.060	0.014
WP-7	2nd 2002	07-June-02	<0.001	0.001	<0.001	<0.002
WP-13	2nd 2002	07-June-02	0.842	0.022	0.123	0.074
WP-14	2nd 2002	07-June-02	0.012	0.002	0.009	0.021
	4th 2002	19-Dec-02	0.025	0.006	0.011	0.034

Notes:

1. Mg/L:

Milligrams per liter

Table 3

**Summary of Dissolved Metals Analysis of Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant
Lea County, New Mexico**

Page 1 of 1

Monitoring Well	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
WP-1	06-June-02	0.017	1.90	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
WP-5	06-June-02	<0.008	0.026	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
WP-6	07-June-02	<0.008	0.185	0.002	<0.002	<0.011	<0.002	<0.004	<0.002
WP-7	07-June-02	0.013	0.017	0.001	<0.002	<0.011	<0.002	<0.004	<0.002
WP-13	07-June-02	0.010	1.63	<0.001	<0.002	<0.011	<0.002	<0.004	<0.002
WP-14	07-June-02	<0.008	0.020	0.002	<0.002	<0.011	<0.002	<0.004	<0.002

Notes:

1. Mg/L: Milligrams per liter
2. <: Below method detection limit

Table 4

**Summary of Inorganic Analysis of Groundwater Samples
Dynegy Midstream Services, L.P., Monument Gas Plant**

Lea County, New Mexico

Page 1 of 1

Monitoring Well	Quarter/Year	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
WP-1	2nd 2002	06-June-02	97.5	7.80	1,070
	4th 2002	19-Dec-02	97.5	22.9	992
WP-5	2nd 2002	06-June-02	6,380	3,960	16,100
	4th 2002	19-Dec-02	5,140	2,580	11,700
WP-6	2nd 2002	07-June-02	1,600	147	4,410
WP-7	2nd 2002	07-June-02	5,670	905	16,800
WP-13	2nd 2002	07-June-02	768	8.70	2,980
WP-14	2nd 2002	07-June-02	11,300	3,520	25,400
	4th 2002	19-Dec-02	12,200	2,940	25,600

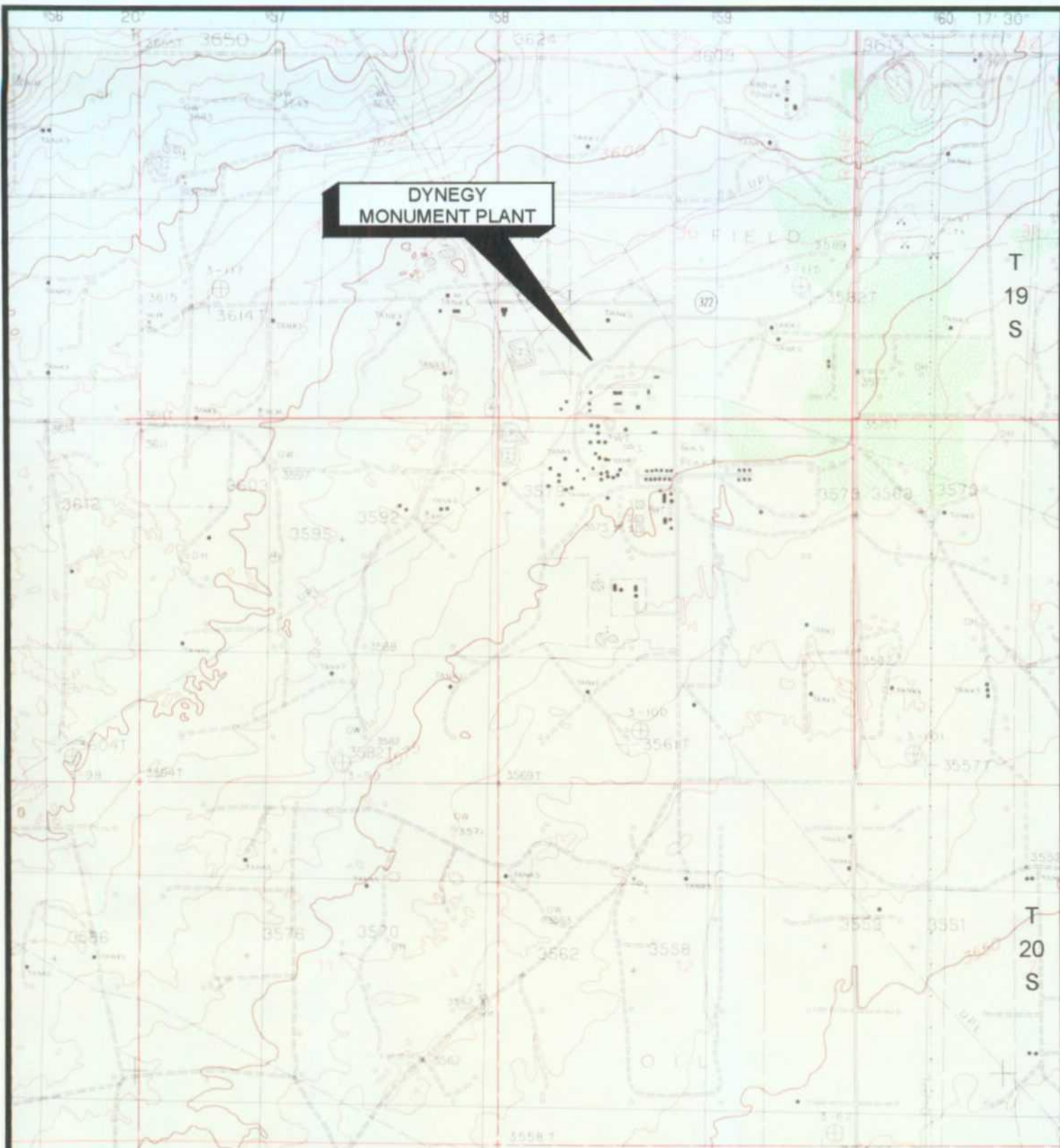
Notes:

1. mg/L: Milligrams per liter
2. <: Below method detection limit

FIGURES

1

FIGURES



R-35-E

R-36-E

FIGURE #1

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICE L.P.

MONUMENT PLANT

SE/4, SW/4, SEC. 36, T19E,R36S

TOPOGRAPHIC MAP

TAKEN FROM U.S.G.S.
MONUMENT SOUTH, NEW MEXICO 1985
7.5' QUADRANGLES



SCALE: 1"=2000'

DATE: 4/30/01

NAME:

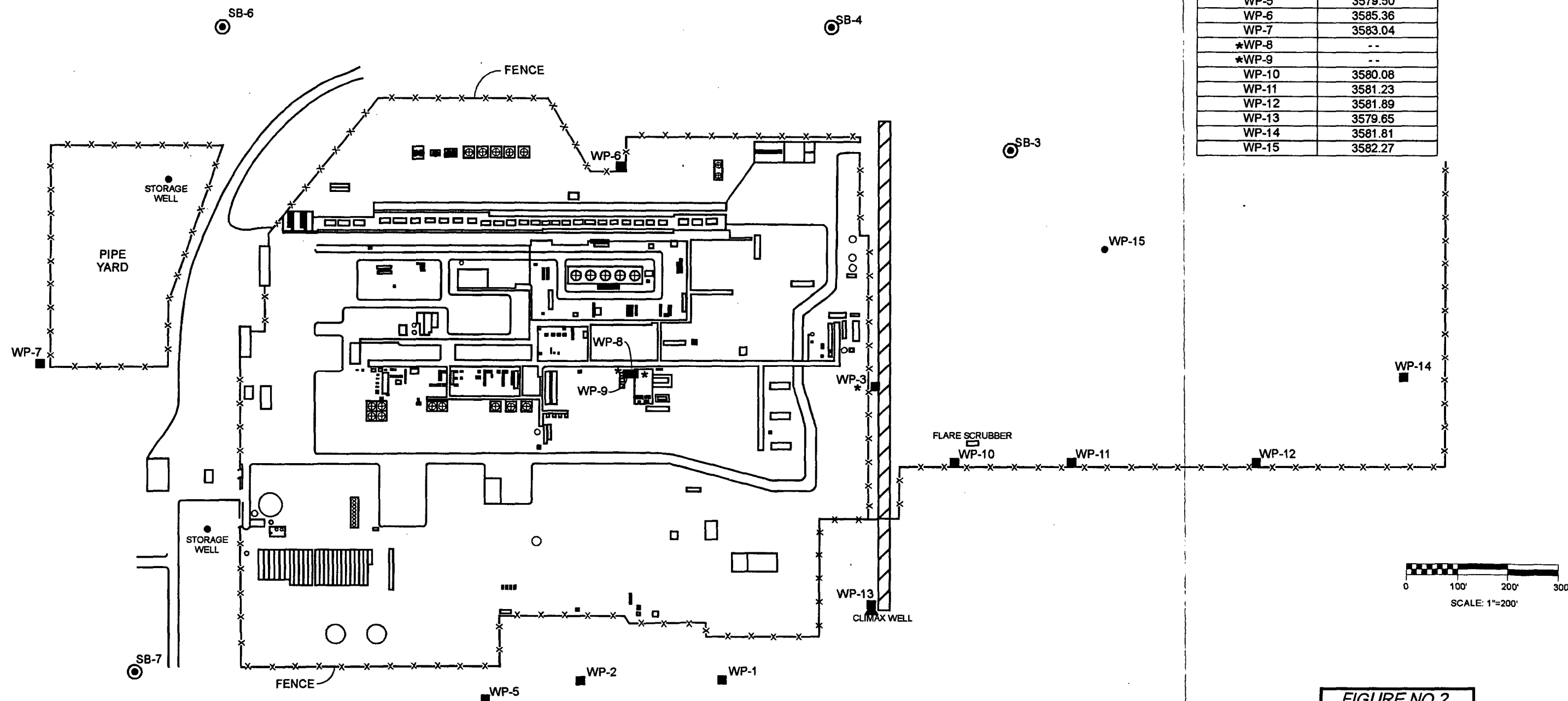
101:

01-0106

Larson &
Associates, Inc.
Environmental Consultants

MONITORING WELL DATA

WELL NUMBER	TOP-OF-CASING ELEV. FEET AMSL
WP-1	3578.01
WP-2	3577.77
*WP-3	--
WP-4	3577.15
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



LEGEND	
SB-4	SOIL BORING LOCATION
WP-1	MONITORING WELL LOCATION
▲	CLIMAX CHEMICAL MONITORING WELL



* NOTE: WELL CONVERTED TO CATHODIC PROTECTION

FIGURE NO.2

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES, L.P.
MONUMENT GAS PLANT

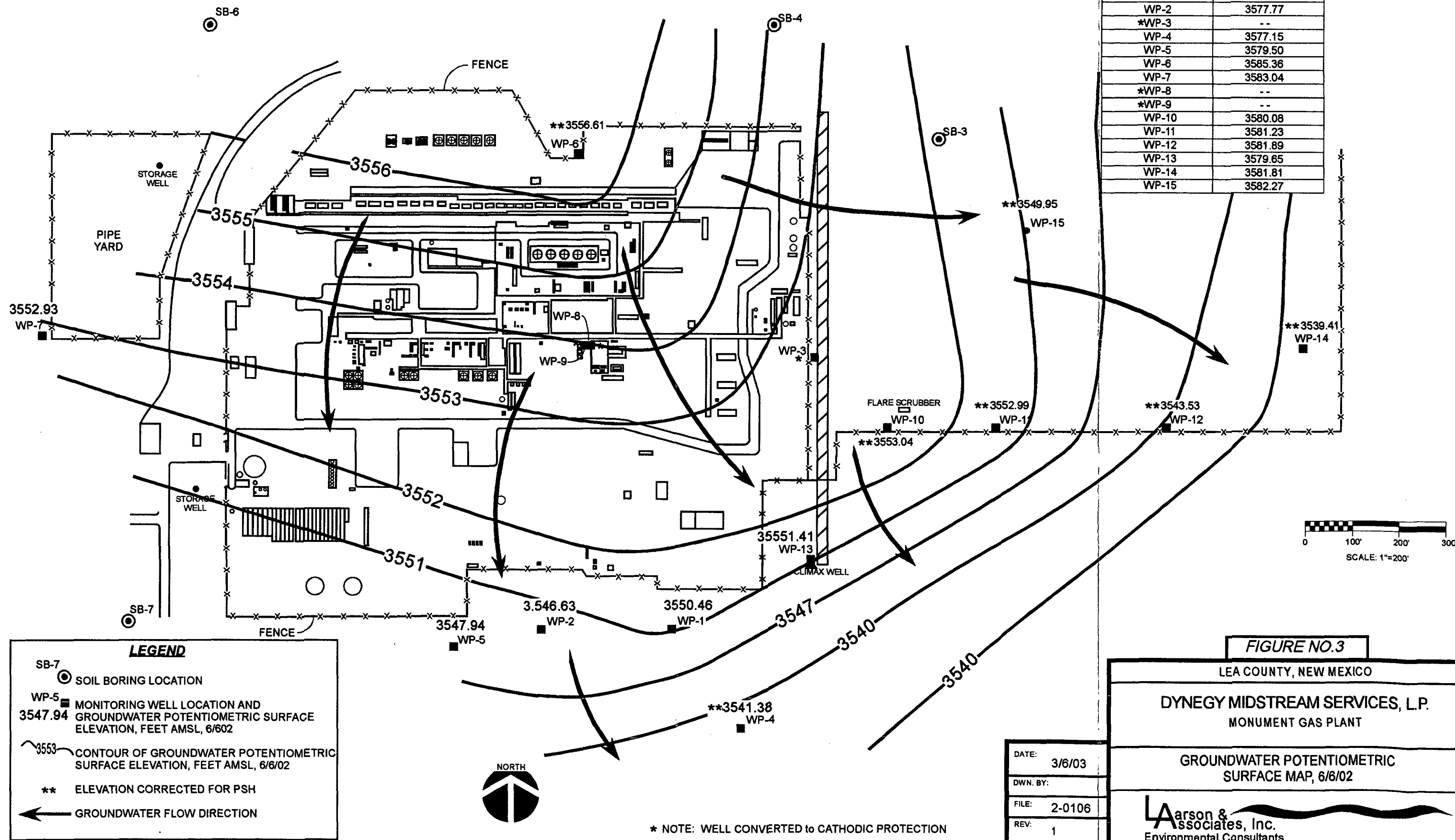
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DWN. BY:	
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REV:	1

Larson & Associates, Inc.
Environmental Consultants

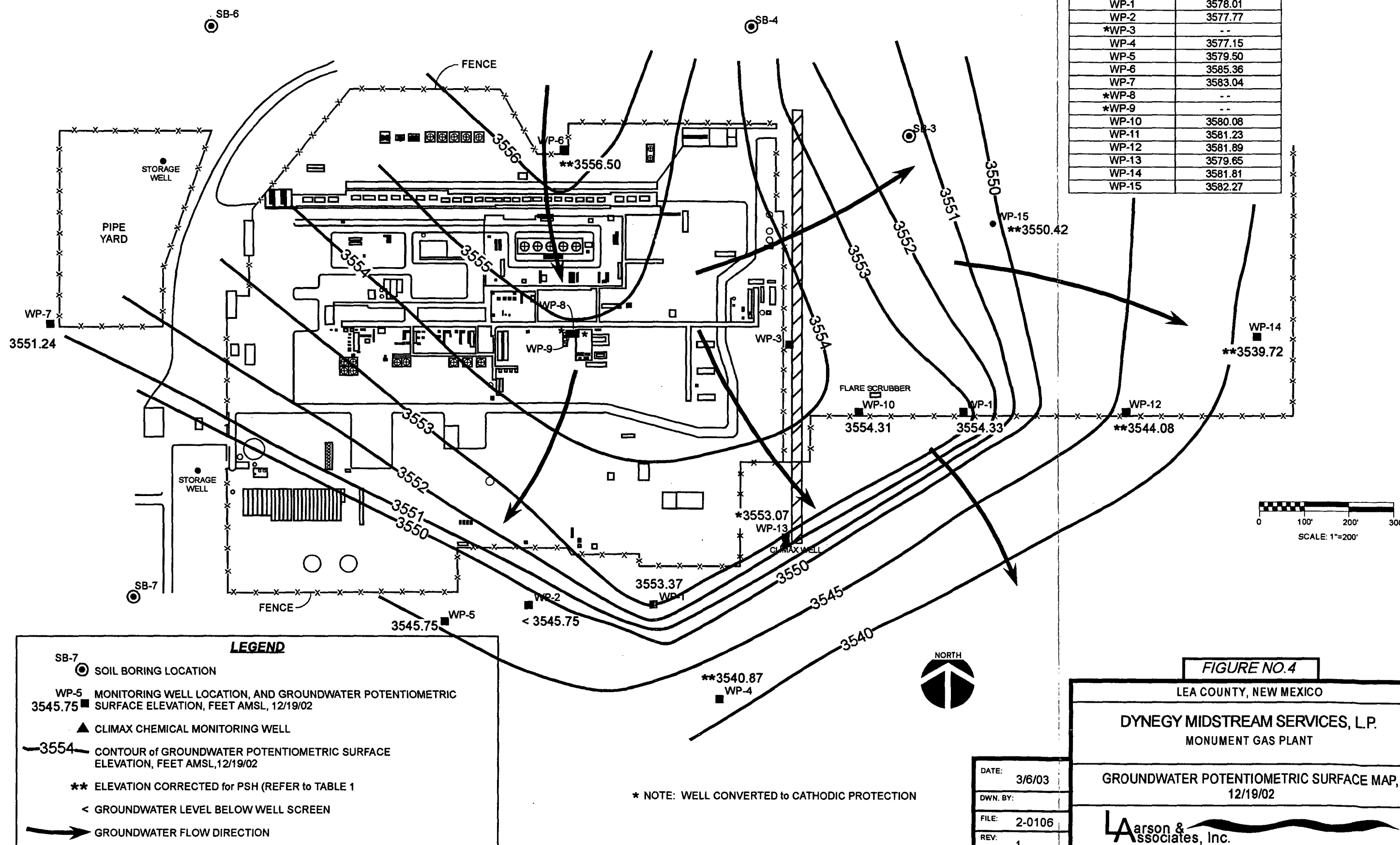
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*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



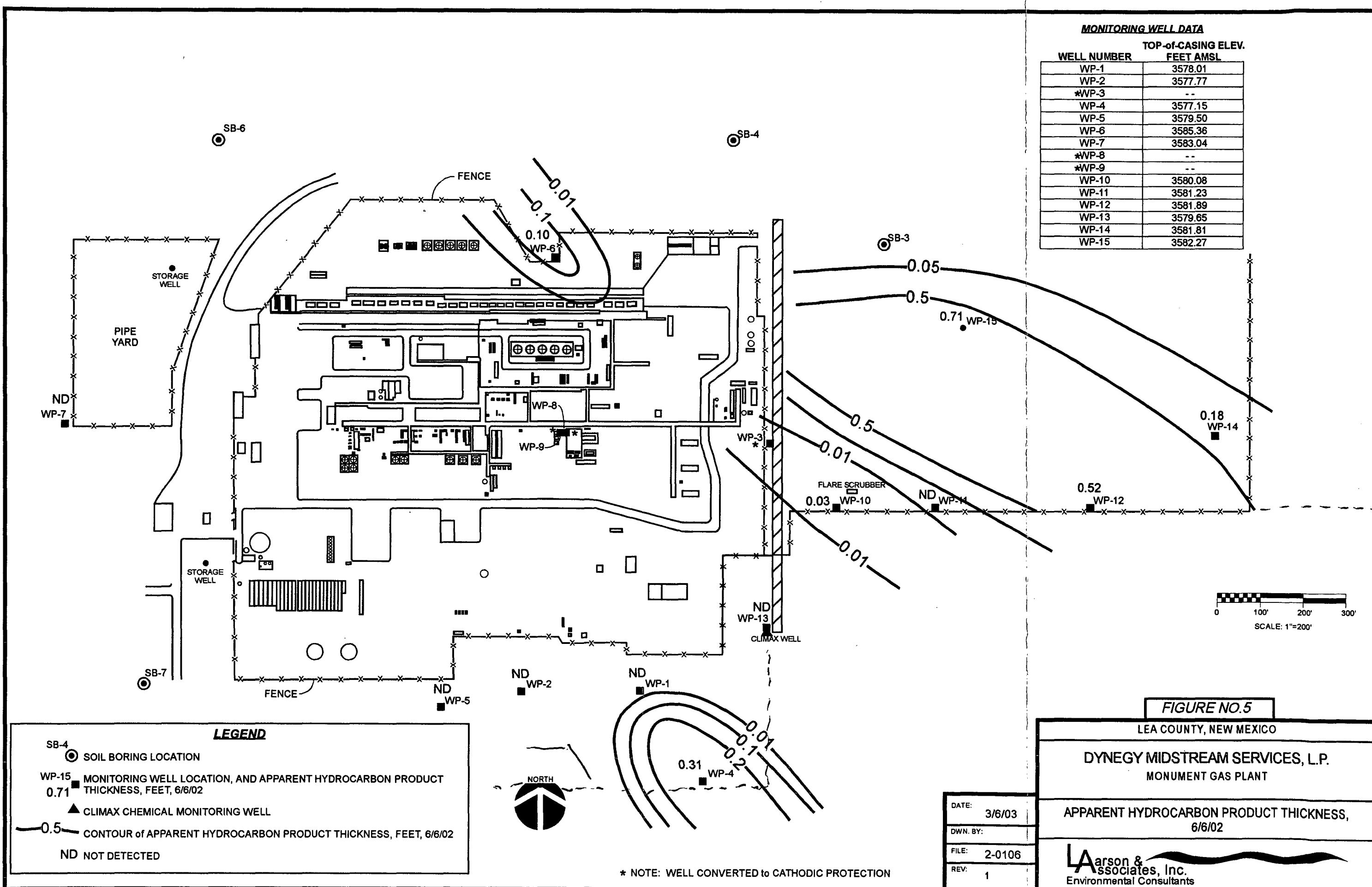
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WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



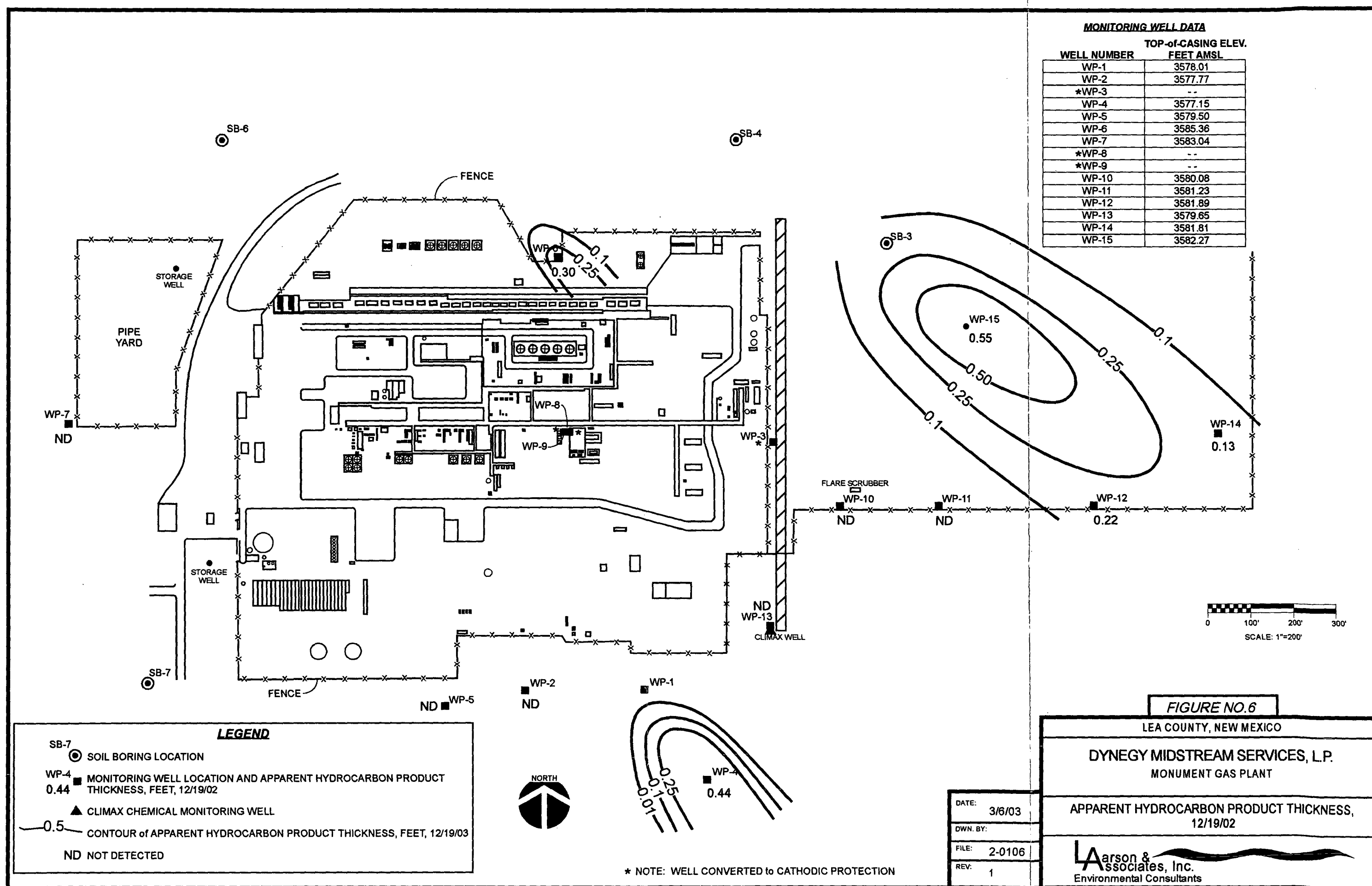
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WP-2	3577.77
*WP-3	--
WP-4	3577.15
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



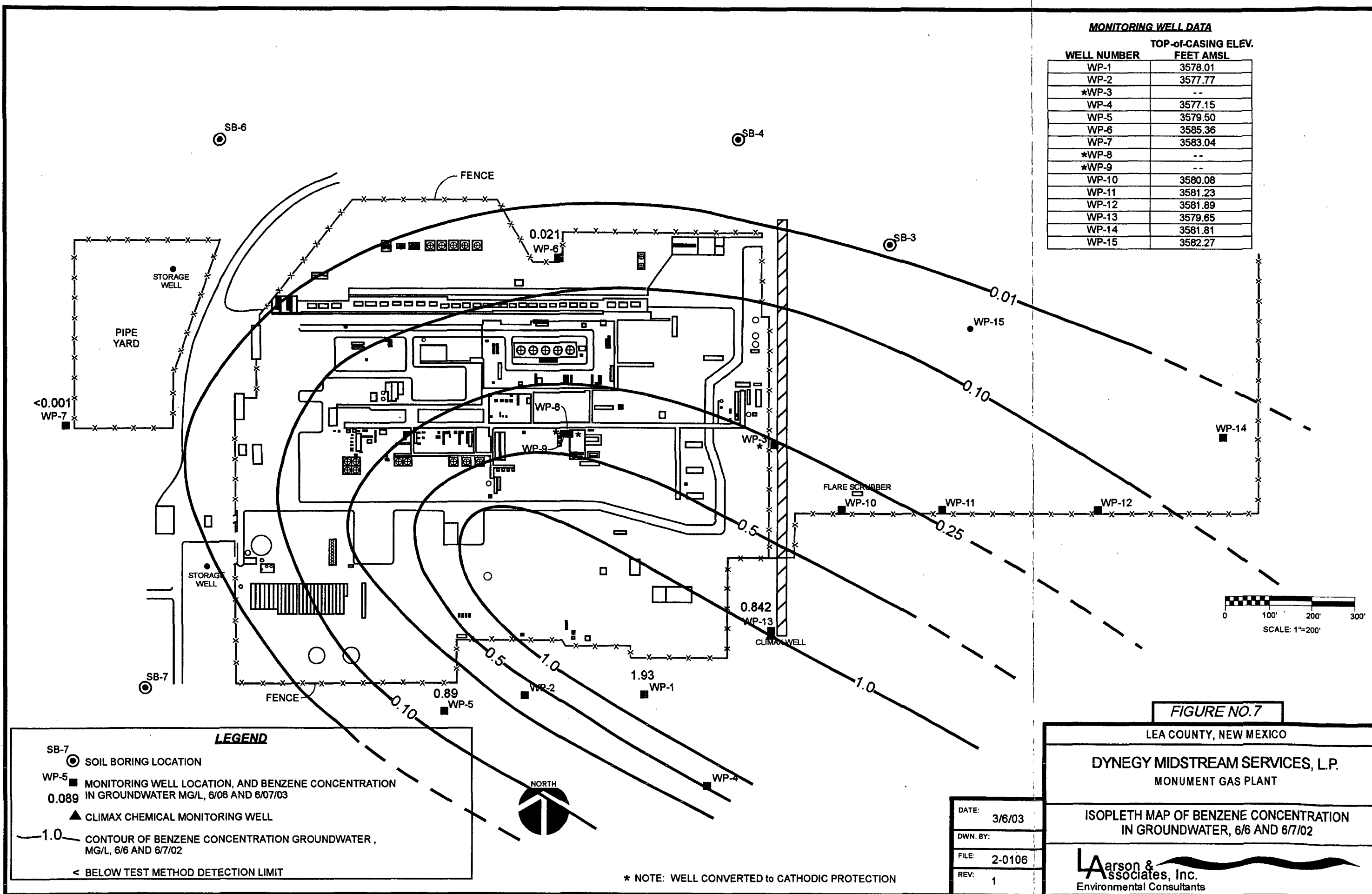
MONITORING WELL DATA

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WP-2	3577.77
*WP-3	--
WP-4	3577.15
WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



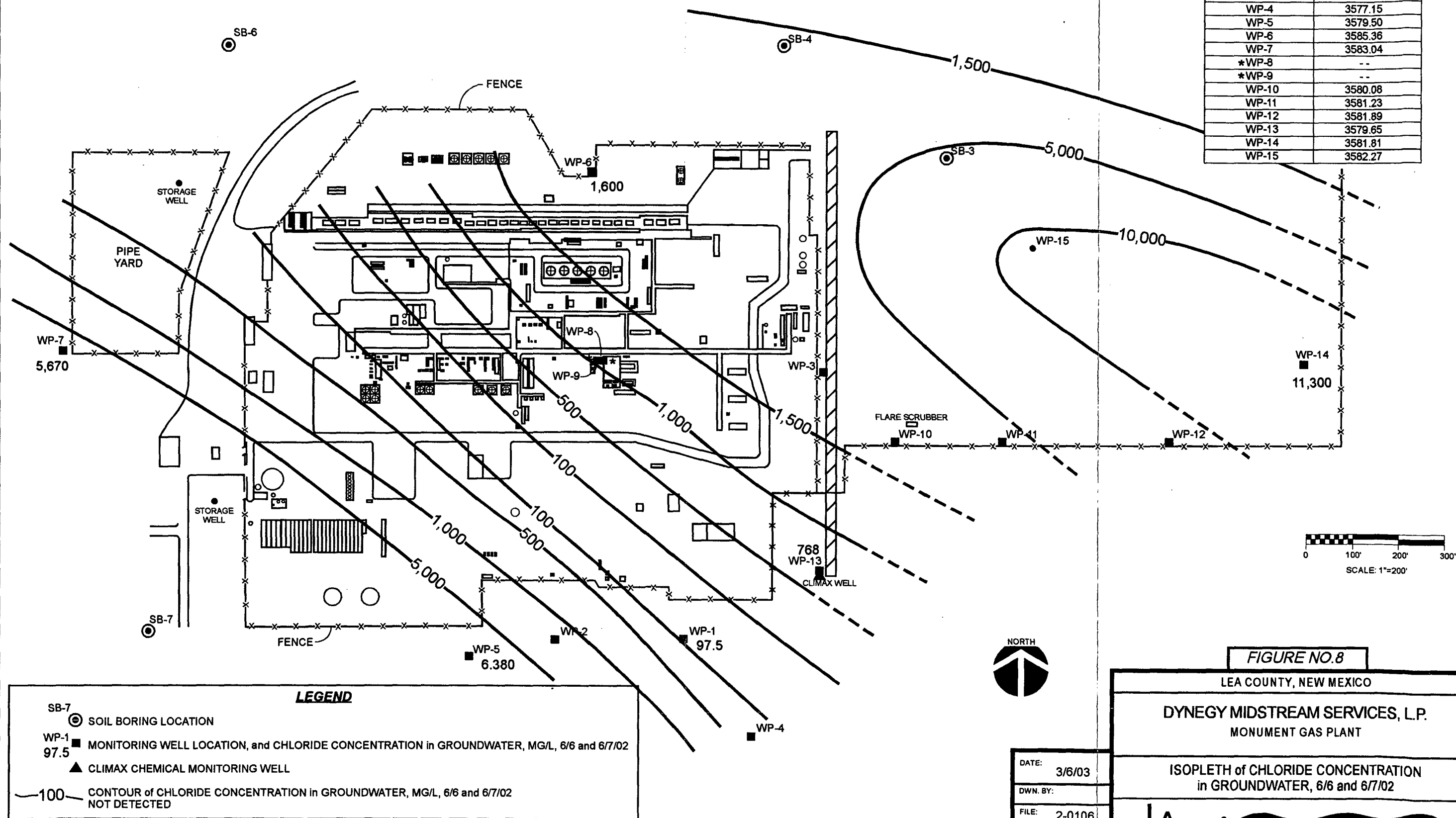
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WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



MONITORING WELL DATA

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WP-5	3579.50
WP-6	3585.36
WP-7	3583.04
*WP-8	--
*WP-9	--
WP-10	3580.08
WP-11	3581.23
WP-12	3581.89
WP-13	3579.65
WP-14	3581.81
WP-15	3582.27



APPENDIX A

Environmental Lab of Texas, Ltd. Reports

APPENDIX A

ANALYTICAL REPORT

Prepared for:

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Dynege/ Monument Plant
Order#: G0203587
Report Date: 03/05/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0203587-01	WP-1	WATER	6/6/02 13:18	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					
0203587-02	WP-5	WATER	6/6/02 14:00	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					
0203587-03	WP-6	WATER	6/7/02 9:45	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					
0203587-04	WP-7	WATER	6/7/02 9:00	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	Total Dissolved Solids (TDS)					
0203587-05	WP-13	WATER	6/7/02 11:05	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No	Temp:	3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					
0203587-06	WP-14	WATER	6/7/02 10:21	6/7/02 14:50	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No	Temp:	3.5 C		
	8021B/5030 BTEX					
	METALS RCRA 7 Dissolved					
	Chloride					
	Mercury, Dissolved					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-01
Sample ID: WP-1

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	10	CK	8021B

Parameter	Result mg/L	RL
Benzene	1.93	0.010
Ethylbenzene	0.032	0.010
Toluene	< 0.010	0.010
p/m-Xylene	< 0.010	0.010
o-Xylene	< 0.010	0.010

Lab ID: 0203587-02
Sample ID: WP-5

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.089	0.001
Ethylbenzene	<0.001	0.001
Toluene	0.002	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-03
Sample ID: WP-6

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.021	0.001
Ethylbenzene	0.060	0.001
Toluene	0.004	0.001
p/m-Xylene	0.007	0.001
o-Xylene	0.007	0.001

Lab ID: 0203587-04
Sample ID: WP-7

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-05
Sample ID: WP-13

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	10	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.842	0.010
Ethylbenzene	0.123	0.010
Toluene	0.022	0.010
p/m-Xylene	0.061	0.010
o-Xylene	0.013	0.010

Lab ID: 0203587-06
Sample ID: WP-14

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.012	0.001
Ethylbenzene	0.009	0.001
Toluene	0.002	0.001
p/m-Xylene	0.017	0.001
o-Xylene	0.004	0.001

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

3-05-03
Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-01

Sample ID: WP-1

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	0.017	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	1.90	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	0.001	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

Lab ID: 0203587-02

Sample ID: WP-5

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	<0.008	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	0.026	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	0.001	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

Lab ID: 0203587-03

Sample ID: WP-6

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	<0.008	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	0.185	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	0.002	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-03
Sample ID: WP-6

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

Lab ID: 0203587-04
Sample ID: WP-7

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	0.013	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	0.017	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	0.001	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

Lab ID: 0203587-05
Sample ID: WP-13

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	0.010	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	1.63	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	<0.001	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

N/A = Not Applicable RL = Reporting Limit

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-06

Sample ID: WP-14

METALS RCRA 7 Dissolved

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	<0.008	mg/L	1	0.008	3005/6010B	06/13/2002	6/14/02	SM
Barium	0.020	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Cadmium	0.002	mg/L	1	0.001	3005/6010B	06/13/2002	6/14/02	SM
Chromium	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM
Lead	<0.011	mg/L	1	0.011	3005/6010B	06/13/2002	6/14/02	SM
Selenium	<0.004	mg/L	1	0.004	3005/6010B	06/13/2002	6/14/02	SM
Silver	<0.002	mg/L	1	0.002	3005/6010B	06/13/2002	6/14/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Mercury, Dissolved	<0.002	mg/L	1	0.002	7470	06/13/2002	6/13/02	SM

Approval: Raland K. Tuttle 3-05-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynegy/ Monument Plant
Location: None Given

Lab ID: 0203587-01
Sample ID: WP-1

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	97.5	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	7.80	mg/L	1	0.5	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	1070	mg/L	1	5.0	160.1	6/8/02	SB

Lab ID: 0203587-02
Sample ID: WP-5

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	6380	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	3960	mg/L	125	62.5	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	16100	mg/L	1	5.0	160.1	6/8/02	SB

Lab ID: 0203587-03
Sample ID: WP-6

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1600	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	147	mg/L	8.33	4.16	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	4410	mg/L	1	5.0	160.1	6/8/02	SB

Lab ID: 0203587-04
Sample ID: WP-7

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5670	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	905	mg/L	25	12.5	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	16800	mg/L	1	5.0	160.1	6/8/02	SB

Lab ID: 0203587-05
Sample ID: WP-13

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	768	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	8.70	mg/L	1	0.5	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	2980	mg/L	1	5.0	160.1	6/8/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203587
Project: 2-0108
Project Name: Dynege/ Monument Plant
Location: None Given

Lab ID: 0203587-05
Sample ID: WP-13

Lab ID: 0203587-06
Sample ID: WP-14

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	11300	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	3520	mg/L	83.3	41.6	375.4	6/13/02	MB
Total Dissolved Solids (TDS)	25400	mg/L	1	5.0	160.1	6/8/02	SB

Approval: Raland K. Tuttle 3-05-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203587

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0001959-02			<0.001	
Ethylbenzene-mg/L		0001959-02			<0.001	
Toluene-mg/L		0001959-02			<0.001	
p/m-Xylene-mg/L		0001959-02			<0.001	
o-Xylene-mg/L		0001959-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0203585-02	0	0.1	0.104	104.%
Ethylbenzene-mg/L		0203585-02	0	0.1	0.100	100.%
Toluene-mg/L		0203585-02	0	0.1	0.098	98.%
p/m-Xylene-mg/L		0203585-02	0	0.2	0.200	100.%
o-Xylene-mg/L		0203585-02	0	0.1	0.100	100.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0203585-02	0	0.1	0.096	96.% 8.%
Ethylbenzene-mg/L		0203585-02	0	0.1	0.092	92.% 8.3%
Toluene-mg/L		0203585-02	0	0.1	0.093	93.% 5.2%
p/m-Xylene-mg/L		0203585-02	0	0.2	0.183	91.5% 8.9%
o-Xylene-mg/L		0203585-02	0	0.1	0.092	92.% 8.3%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0001959-05		0.1	0.102	102.%
Ethylbenzene-mg/L		0001959-05		0.1	0.098	98.%
Toluene-mg/L		0001959-05		0.1	0.096	96.%
p/m-Xylene-mg/L		0001959-05		0.2	0.194	97.%
o-Xylene-mg/L		0001959-05		0.1	0.098	98.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

METALS RCRA 7 Dissolved

Order#: G0203587

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Arsenic-mg/L		0002019-02			<0.008		
Barium-mg/L		0002019-02			<0.001		
Cadmium-mg/L		0002019-02			<0.001		
Chromium-mg/L		0002019-02			<0.002		
Lead-mg/L		0002019-02			<0.011		
Selenium-mg/L		0002019-02			<0.004		
Silver-mg/L		0002019-02			<0.002		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Arsenic-mg/L		0002019-03		0.2	0.225	112.5%	
Barium-mg/L		0002019-03		1	1.05	105.5%	
Cadmium-mg/L		0002019-03		0.2	0.213	106.5%	
Chromium-mg/L		0002019-03		1	1.01	101.5%	
Lead-mg/L		0002019-03		1	0.981	98.1%	
Selenium-mg/L		0002019-03		0.2	0.209	104.5%	
Silver-mg/L		0002019-03		1	1.14	114.5%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Arsenic-mg/L		0002019-04		0.2	0.231	115.5%	2.6%
Barium-mg/L		0002019-04		1	1.05	105.5%	0.5%
Cadmium-mg/L		0002019-04		0.2	0.210	105.5%	1.4%
Chromium-mg/L		0002019-04		1	0.980	98.5%	3.5%
Lead-mg/L		0002019-04		1	0.983	98.3%	0.2%
Selenium-mg/L		0002019-04		0.2	0.212	106.5%	1.4%
Silver-mg/L		0002019-04		1	1.14	114.5%	0.5%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Arsenic-mg/L		0002019-05		1	0.990	99.5%	
Barium-mg/L		0002019-05		1	1.04	104.5%	
Cadmium-mg/L		0002019-05		1	1.04	104.5%	
Chromium-mg/L		0002019-05		1	1.01	101.5%	
Lead-mg/L		0002019-05		1	1.01	101.5%	
Selenium-mg/L		0002019-05		1	1.05	105.5%	
Silver-mg/L		0002019-05		0.5	0.491	98.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203587

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0002037-01			<5.00		
Mercury, Dissolved-mg/L		0001993-01			<0.002		
SULFATE, 375.4-mg/L		0001999-01			<0.5		
Total Dissolved Solids (TDS)-mg/L		0001944-01			<5.00		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Mercury, Dissolved-mg/L		0001993-02		0.015	0.015	100.0%	
CONTROL DUP							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Mercury, Dissolved-mg/L		0001993-03		0.015	0.015	100.0%	0.0%
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0203587-02	16100		15800		1.9%
MS							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0203587-01	97.5	250	350	101.0%	
MSD							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0203587-01	97.5	250	346	99.4%	1.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0002037-04		5000	5050	101.0%	
Mercury, Dissolved-mg/L		0001993-04		0.015	0.015	100.0%	
SULFATE, 375.4-mg/L		0001999-04		50	50.4	100.8%	

[illegible]

ANALYTICAL REPORT

Prepared for:

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Dynegy/Monument Plant

PO#:

Order#: G0205300

Report Date: 12/30/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0205300
Project: 1-0101
Project Name: Dynegy/Monument Plant
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0205300-01	WP-1	WATER	12/19/02 12:40	12/19/02 16:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No	Temp:	3.5 C		
	8021B/5030 BTEX					
	Chloride					
	Sulfate					
	Total Dissolved Solids (TDS)					
0205300-02	WP-5	WATER	12/19/02 13:20	12/19/02 16:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No	Temp:	3.5 C		
	8021B/5030 BTEX					
	Chloride					
	Sulfate					
	Total Dissolved Solids (TDS)					
0205300-03	WP-14	WATER	12/19/02 14:10	12/19/02 16:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No	Temp:	3.5 C		
	8021B/5030 BTEX					
	Chloride					
	Sulfate					
	Total Dissolved Solids (TDS)					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0205300
Project: 1-0101
Project Name: Dynegy/Monument Plant
Location: None Given

Lab ID: 0205300-01
Sample ID: WP-1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004163-02		12/24/02 16:02	1	100	CK	8021B

Parameter	Result mg/L	RL
Benzene	2.24	0.100
Toluene	<0.100	0.100
Ethylbenzene	0.161	0.100
p/m-Xylene	0.151	0.100
o-Xylene	<0.100	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	108%	80	120
Bromofluorobenzene	94%	80	120

Lab ID: 0205300-02
Sample ID: WP-5

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004163-02		12/24/02 16:24	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.339	0.001
Toluene	0.002	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	0.002	0.001
o-Xylene	0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	120%	80	120
Bromofluorobenzene	97%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0205300
Project: 1-0101
Project Name: Dynegy/Monument Plant
Location: None Given

Lab ID: 0205300-03
Sample ID: WP-14

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0004163-02		12/24/02 16:46	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.025	0.001
Toluene	0.006	0.001
Ethylbenzene	0.011	0.001
p/m-Xylene	0.027	0.001
o-Xylene	0.007	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	158%	80	120
Bromofluorobenzene	112%	80	120

Approval: Jeanne McMurrey 12-30-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MARK LARSON
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0205300
Project: 1-0101
Project Name: Dynegy/Monument Plant
Location: None Given

Lab ID: 0205300-01
Sample ID: WP-1

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	97.5	mg/L	1	5.00	9253	12/27/02	SB
Sulfate	22.9	mg/L	1	0.50	375.4	12/27/02	TAL
Total Dissolved Solids (TDS)	992	mg/L	1	5.0	160.1	12/20/02	TAL

Lab ID: 0205300-02
Sample ID: WP-5

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	5140	mg/L	1	5.00	9253	12/27/02	SB
Sulfate	2580	mg/L	100	50.0	375.4	12/27/02	TAL
Total Dissolved Solids (TDS)	11700	mg/L	1	5.0	160.1	12/20/02	TAL

Lab ID: 0205300-03
Sample ID: WP-14

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	12200	mg/L	1	5.00	9253	12/27/02	SB
Sulfate	2940	mg/L	50	25.0	375.4	12/27/02	TAL
Total Dissolved Solids (TDS)	25600	mg/L	1	5.0	160.1	12/20/02	TAL

Approval: Jeanne McMurrey 12-30-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0205300

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0004182-01			<5.00		
Sulfate-mg/L		0004185-01			<0.5		
Total Dissolved Solids (TDS)-mg/L		0004140-01			<5.0		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Sulfate-mg/L		0205293-01	312		309		1.1%
Total Dissolved Solids (TDS)-mg/L		0205300-02	11700		11700		0.0%
MS							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0205293-01	97.5	250	346	99.4%	
MSD							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0205293-01	97.5	250	350	101.1%	1.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0004182-04		5000	4960	99.2%	
Sulfate-mg/L		0004185-04		50	51.4	102.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205300

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0004163-02			<0.001		
Toluene-mg/L		0004163-02			<0.001		
Ethylbenzene-mg/L		0004163-02			<0.001		
p/m-Xylene-mg/L		0004163-02			<0.001		
o-Xylene-mg/L		0004163-02			<0.001		
MS							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0205302-06	0	0.1	0.116	116.%	
Toluene-mg/L		0205302-06	0	0.1	0.117	117.%	
Ethylbenzene-mg/L		0205302-06	0	0.1	0.117	117.%	
p/m-Xylene-mg/L		0205302-06	0	0.2	0.236	118.%	
o-Xylene-mg/L		0205302-06	0	0.1	0.116	116.%	
MSD							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0205302-06	0	0.1	0.107	107.%	8.1%
Toluene-mg/L		0205302-06	0	0.1	0.106	106.%	9.9%
Ethylbenzene-mg/L		0205302-06	0	0.1	0.109	109.%	7.1%
p/m-Xylene-mg/L		0205302-06	0	0.2	0.219	109.5%	7.5%
o-Xylene-mg/L		0205302-06	0	0.1	0.108	108.%	7.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0004163-05		0.1	0.108	108.%	
Toluene-mg/L		0004163-05		0.1	0.108	108.%	
Ethylbenzene-mg/L		0004163-05		0.1	0.110	110.%	
p/m-Xylene-mg/L		0004163-05		0.2	0.223	111.5%	
o-Xylene-mg/L		0004163-05		0.1	0.110	110.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0205300

Project: Dynegy/Monument Plant

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
WP-1	0205300-01	WATER	12/19/2002	12/19/2002
WP-5	0205300-02	WATER	12/19/2002	12/19/2002
WP-14	0205300-03	WATER	12/19/2002	12/19/2002

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0205300-03)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: *James McMurry*
Environmental Lab of Texas I, Ltd.

Date: 12-30-02

CHAIN—OF—CUSTODY RECORD

Laarson &
Associates, Inc. Environmental Consultants
507 N. Marienfeld, Ste. 202 • Midland, TX 79701
Fax: 915-687-0456
915-687-0901

LAB. I.D. NUMBER
(LAB USE ONLY)

REMARKS
(I.E., FILTERED, UNFILTERED,
PRESERVED, UNPRESERVED,
GRAB COMPOSITE)

2 preserved - 1 Nonpreserved
11 11 11 11 11 11

PARAMETERS/METHOD NUMBER

NUMBER OF CONTAINERS

SITE MANAGER: *M. Larson*

PROJECT NAME: *Monument Plant*

LAB. PO #

SAMPLE IDENTIFICATION

OTHER

WATER

SOIL

TIME

0205300
WP-1 01
WP-5 02
WP-14 03

B-Tex
Chloride
TDS
Substrate

3
3
3

RECEIVED BY: (Signature) DATE: TIME:

SAMPLE SHIPPED BY: (Circle) DATE: TIME:

FEDER
HAND DELIVERED
BUS AIRBILL #:
UPS OTHER:

WHITE - RECEIVING LAB
YELLOW - RECEIVING LAB (TO BE RETURNED TO
LA AFTER RECEIPT)
PINK - PROJECT MANAGER
GOLD - QA/QC COORDINATOR

SAMPLE TYPE: *Water*

DATE: TIME:

DATE: TIME:

TURNAROUND TIME NEEDED

RELINQUISHED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature)

David J. Anderson
DATE: 12/19/02 TIME: 1645

RECEIVING LABORATORY: *5 Lot*

ADDRESS: *12600 W. I-20 Exit*

CITY: *Odessa* STATE: *Texas* ZIP: *79765*

CONTACT: PHONE: *(915) 563-1800*

LA CONTACT PERSON: *C. Crum*

SAMPLE CONDITION WHEN RECEIVED: *6/40ml Vials 3/11 HDP 3.5 C*

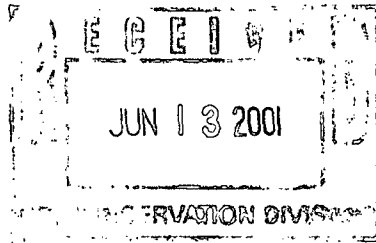
CLIENT NAME: *Dynegy*

PROJECT NO.: *1-0101*

PAGE 1 OF 1

DATE

12/19/02 1240
11/11 1320
11/11 1410



TRANSMITTAL LETTER

ARCADIS Geraghty & Miller, Inc.
5100 East Skelly Drive
Suite 1000
Tulsa
Oklahoma 74135
Tel 918 664 9900
Fax 918 664 9925

To:
J. Dee Morris
DYNEGY Midstream Services, Inc.
1000 Louisiana, Suite 5800
Houston, Texas 77002
(713) 507-6400

Copies:
Oscar Deleon (1 copy)
DYNEGY Midstream Services, Inc.
P.O. Box 67
Monument, New Mexico 88265
Steve Tischer (1 copy)
ARCADIS G&M Midland

GMSOOKENOK000532.0005

From:
Tim Brandon

Date:
20 April 2001

Subject:
Final 2000 Annual Monitoring Report, Monument Gas Plant

We are sending you:

- ☒ Attached ☐ Under Separate Cover Via _____ the Following Items:
- | | | | |
|--|----------------------------------|---|---|
| ☐ Shop Drawings | ☐ Plans | ☐ Specifications | ☐ Change Order |
| ☐ Prints | ☐ Samples | ☐ Copy of Letter | ☒ Reports |
| ☐ Other: _____ | | | |

Copies	Date	Drawing No.	Rev.	Description	Action*
3	4/20/01			FINAL 2000 Annual Monitoring Report, DYNEGY Gas Plant, Monument, New Mexico	*

Action*

- | | | |
|---|--|--|
| ☐ A Approved | ☐ CR Correct and Resubmit | ☐ Resubmit _____ Copies |
| ☐ AN Approved As Noted | ☐ F File | ☐ Return _____ Copies |
| ☒ AS As Requested | ☐ FA For Approval | ☐ Review and Comment |
| ☒ Other: Please submit this document to William C. Olson and Jerry Sexton, NMOCD. | | |

Comments: Please find attached one (1) original (submit to William C. Olson, NMOCD) and two (2) copies (submit 1 copy to Jerry Sexton-NMOCD Hobbs; keep the 2nd copy for yourself) of the Final 2000 Annual Monitoring Report for the Monument Gas Plant. Additional copies are being mailed to Oscar DeLeon & to our Midland office. Call Tim Brandon at (918) 664-9900 if you have any questions.

DP-25

PB
11/5

ARCADIS GERAGHTY & MILLER

William C. Olson
New Mexico Oil Conservation Division
Environmental Bureau
2040 S. Pacheco
Santa Fe, New Mexico 87505

ARCADIS Geraghty & Miller Inc
5100 E Skelly Drive
Suite 1000
Tulsa
Oklahoma 74135
Tel 918 664 9900
Fax 918 664 9925

Subject:

Annual Summary Report for 2000 Groundwater Monitoring Activities at DYNEGY
(Former Warren) Monument Gas Plant, Lea County, New Mexico

ENVIRONMENTAL

Dear Mr. Olson:

On behalf of DYNEGY Midstream Services, Inc. (DYNEGY), ARCADIS Geraghty & Miller, Inc. is submitting the following annual summary report for 2000 groundwater monitoring activities at the DYNEGY Monument Gas Plant, Lea County, New Mexico. Groundwater monitoring activities for 2000 were conducted by DYNEGY plant personnel. This annual summary report has been prepared jointly by DYNEGY and ARCADIS Geraghty & Miller, Inc. to satisfy the monitoring and reporting requirements outlined in the New Mexico Oil Conservation District (NMOCD) correspondence dated August 9, 1996, modified as approved in NMOCD correspondence dated June 17, 1998.

Tulsa,
20 April 2001

Contact:

Tim Brandon

Extension:

(918) 664-9900
extension 3124

SUMMARY OF MONITORING ACTIVITIES

The 2000 monitoring activities consisted of the following quarterly groundwater gauging and semi-annual sampling events. Any deviations, problems, or deficiencies encountered during the monitoring period are noted. Some of the 2000 gauging and sampling events were delayed, but the facility is making a diligent effort to meet the monitoring schedule.

FIRST QUARTER 2000

- Gauged fluid levels in 13 monitoring wells on March 29, 2000.

SECOND AND THIRD QUARTER 2000

- Gauged fluid levels in 13 monitoring wells on July 18, 2000.
- Sampled six monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13, and WP-14) on July 19, 2000 that did not contain measurable free-phase hydrocarbons. All groundwater samples were analyzed by SPL Laboratory for BTEX constituents using USEPA Method 8020A; inorganic constituents chlorides, TDS, and sulfates; and total metals.
- Well WP-2 was essentially dry and could not be sampled.

Our ref.:

G:\PROJECT\DYNEGY\OK532006\MONUME-1.DOC

FOURTH QUARTER 2000

- Gauged fluid levels in 13 monitoring wells on January 18, 2001.
- Sampled six monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13, and WP-14) on January 26, 2001. All groundwater samples were analyzed by SPL Laboratory for BTEX constituents using USEPA Method 8020A; inorganic constituents chlorides, TDS, and sulfates; and total metals.

SUMMARY OF MONITORING AND ANALYTICAL RESULTS

FLUID LEVEL MEASUREMENTS

Results of the 2000 fluid-level monitoring activities are summarized below. A site map with monitoring well locations is presented as Figure 1.

- Field measurements, water-level elevations, liquid hydrocarbon thickness, and total depths are presented in Tables 1A, 1B, 1C, and 1D, respectively. A summary table of groundwater elevations corrected for the presence of hydrocarbons is presented in Table 1F. Based on previous results of liquid hydrocarbon characterization conducted at the site, an average specific gravity of 0.725 was used to calculate corrected groundwater elevations. Graphs of groundwater elevations versus time are presented as Appendix A.
- A slight increasing trend in water-level elevations was generally observed across the site during 2000. Well WP-2 was essentially dry, with the exception of the January 18, 2001, measurement.
- Groundwater was found at depths ranging from 22.60 feet (ft) to 42.20 ft below the measuring point elevations (Table 1A). The saturated thickness of the alluvial sediments beneath the site on January 18, 2001, ranged from 1.75 ft in Well WP-6 to 14.98 ft. in Well WP-7. The saturated thickness was less than 5 ft in 3 of the 13 wells at the site (Table 1E).
- Groundwater elevation contour maps for each quarterly monitoring period in which all monitoring wells were gauged are presented as Figures 2 through 4. The generalized groundwater flow direction beneath the eastern half of the site is toward the southeast while groundwater flow beneath the western portion of the site is toward the south. An apparent area of groundwater mounding is present east of the processing area. The configuration of the water table appears to be consistent throughout each monitoring event in 2000.
- Anomalous high water-level elevations were recorded in Well WP-1 during the July 18, 2000, gauging event, and in Well WP-14 during the January 18, 2001, gauging event. These values were not used in the construction of the groundwater elevation contour map for the periods. The cause of the anomalous data is unknown.

ANALYTICAL RESULTS

Analytical results for the 2000 monitoring program are summarized below.

- A summary of organic and inorganic groundwater quality data for the six wells (WP-1, WP-5, WP-6, WP-7, WP-13, and WP-14) sampled during the 2000 monitoring program is presented in Tables 2A and 2B. A series of graphs showing BTEX concentrations versus time and inorganic parameter (chlorides, TDS, and sulfate) concentrations versus time are presented as Appendix B. The analytical data sheets for samples collected during the 2000 monitoring program are presented as Appendix C.
- BTEX levels were detected in five out of six monitoring wells sampled during the 2000 sampling events. Well WP-7 was non detect for BTEX during these two sampling events. Benzene is the predominant constituent detected in five of the six groundwater samples with detectable concentrations of BTEX. During the 2000 Semi-Annual sampling events, the highest concentrations of benzene were detected in Wells WP-1, WP-13, and WP-5. Xylenes were also a constituent detected in Well WP-14 during the 2000 monitoring period.
- Inorganic groundwater quality indicates elevated concentrations of chlorides, TDS, and sulfates are present in the groundwater beneath the site, including Well WP-7, which is located in the northwest portion of the site. The elevated concentrations do not appear to be related to gas plant operations but are likely related to former operations at the Climax Chemical Company, located approximately one-half mile northwest (upgradient) of the DYNEGY site.
- A summary of total metals data for groundwater samples collected in 2000 is presented in Table 2B. Of the eight RCRA heavy metals, five of the eight (arsenic, barium, chromium, mercury, and selenium) metals were detected in the groundwater samples. Arsenic was detected in the six monitoring wells sampled at concentrations ranging from 0.00586 to 0.0361 mg/L. Barium was detected in all monitoring wells sampled at concentrations ranging from 0.0219 mg/L to 4.23 mg/L. Chromium was detected in only one sample collected from WP-6 at a concentration of 0.0165 mg/L. Mercury was detected in one sample collected from Well WP-7 at a concentration of 0.000908 mg/L. Selenium was detected in both samples collected from Well WP-7 at concentrations of 0.00551 mg/L and 0.0138 mg/L.

DISTRIBUTION OF LIQUID HYDROCARBONS

The approximate extent of liquid hydrocarbons is shown for each quarterly monitoring event on Figures 5 through 7. A brief summary of findings is presented below.

- During March 2000, liquid hydrocarbons were detected in eight (Wells WP-4, WP-6, WP-10, WP-11, WP-12, WP-13, WP-14 and WP-15) of the 13 wells

gauged. Liquid hydrocarbon thickness in wells ranged from 0.02 ft in Wells WP-6 and WP-13 to 0.55 ft in Well WP-15.

- During July 2000, liquid hydrocarbons were detected in eight (Wells WP-4, WP-6, WP-10, WP-11, WP-12, WP-13, WP-14, and WP-15) of the 13 wells. Liquid hydrocarbon thickness in wells ranged from 0.01 ft in Well WP-6 to 0.30 ft in Well WP-4.
- During January 2001, liquid hydrocarbons were detected in six (Wells WP-4, WP-6, WP-10, WP-11, WP-12, and WP-15) of the 13 wells. Liquid hydrocarbon thickness in wells ranged from 0.06 ft in Well WP-6 to 0.55 ft in Wells WP-12 and WP-15.

SUMMARY OF HYDROCARBON RECOVERY OPERATIONS

Hydrocarbon recovery operations were ceased in April 1997 due to low water-table conditions and pump limitations.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the 2000 monitoring program, the following conclusions can be made.

- A slight increasing trend in water-level elevations was generally observed across the site during 2000. Well WP-2 was essentially dry, with the exception of the January 18, 2001, measurement.
- The generalized groundwater flow direction beneath the eastern half of the site is toward the southeast while groundwater flow beneath the western portion of the site is toward the south. An apparent area of groundwater mounding is present east of the processing area. The configuration of the water table appears to be consistent throughout each monitoring event in 2000.
- BTEX levels were detected in five out of six monitoring wells sampled during the 2000 sampling events. Well WP-7 was non detect for BTEX during these two sampling events. Benzene is the predominant constituent detected in five of the six groundwater samples with detectable concentrations of BTEX. During the 2000 Semi-Annual sampling events, the highest concentrations of benzene were detected in Wells WP-1, WP-13, and WP-5. Xylenes were also a constituent detected in Well WP-14 during the 2000 monitoring period.
- Inorganic groundwater quality indicates elevated concentrations of chlorides, TDS, and sulfates are present in the groundwater beneath the site, including Well WP-7, which is located in the northwest portion of the site. The elevated concentrations do not appear to be related to gas plant operations but are likely

related to former operations at the Climax Chemical Company, located approximately one-half mile northwest (upgradient) of the DYNEGY site.

- Only low levels of the heavy metals arsenic, barium, chromium, mercury, and selenium were detected in groundwater samples.
- Hydrocarbon recovery operations were ceased in April 1997 due to low water table conditions and pump limitations. In an effort to make the recovery system operate more efficiently during low water level conditions, DYNEGY may purchase two bottom loading hydrocarbon skimming pumps for Wells WP-4 and WP-13. In addition, an expansion of the hydrocarbon recovery system is proposed.

Based on the results to the 2000 monitoring program the following recommendations can be made.

1. During the March 2001 sampling event, samples should be collected for analysis of BTEX, chlorides, TDS, and sulfates.
2. Complete the upgrade and modification of the hydrocarbon recovery system as discussed above.

Based on information discussed with the NMOCD during the March 5, 1998, meeting, DYNEGY proposes the following groundwater monitoring program for the Monument site in 2001. The 2001 groundwater monitoring program will consist of semi-annual groundwater sampling as approved by NMOCD in the correspondence dated June 17, 1998. Quarterly groundwater gauging activities will also occur during 2001. Prior to sampling, all monitoring wells will be gauged for the presence of liquid hydrocarbons and water-level elevations. The first groundwater sampling event will be conducted in June 2001 in an effort to coincide with late Spring precipitation events. The first event will be considered the comprehensive sampling event as all six monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13, and WP-14) without liquid hydrocarbons will be sampled for analysis of BTEX, chlorides, TDS, sulfates, and total metals using the appropriate USEPA methods. The second event will be conducted in October to coincide with the end of the Fall precipitation season. Three perimeter downgradient monitor wells (WP-1, WP-5, and WP-14) will be sampled during the second event for analysis of BTEX, chlorides, TDS, and sulfates. The above monitoring events are scheduled to coincide with seasonal periods of precipitation and thus, should be representative of higher groundwater flow conditions. The results of the groundwater monitoring program, as well as hydrocarbon recovery activities, will be summarized in an annual report submitted to the NMOCD. The annual report for 2001 will be submitted to the NMOCD by February 15, 2002.

The first sampling event of 2001 monitoring event is scheduled for June. The 2001 groundwater monitoring will be completed per the proposed plan unless additional input is received from the NMOCD.

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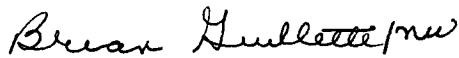
Please contact J. Dee Morris of DYNEGY at (713) 507-6400 if you have any questions regarding this annual summary report package.

Sincerely,

ARCADIS Geraghty & Miller Inc



Tim Brandon, C.P.G.
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Mike Hicks (DYNEGY-Eunice)
Oscar DeLeon (DYNEGY-Monument)

TABLES

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Table 1-A, ACTUAL FIELD MEASUREMENTS, from reference point on north side of casing, feet

Monitor Well ID	1995				1996				1997				1998		1999		2000	
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 6/26/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	2nd Qtr 5/26/98	3rd Qtr 8/13/99	1st Qtr 3/29/00	2nd Qtr 7/18/00	3rd Qtr 11/18/01	4th Qtr 3/18/02	1st Qtr 6/18/02	2nd Qtr 9/18/02
WP-1	Product	32.00	25.80	28.00	30.45	31.08	31.26	31.00	29.72	29.14	29.97	30.55	24.4	28.85	24.60	27.80	28.85	24.60
	Water	32.00	25.80	28.00	30.45	31.08	31.26	31.00	29.72	29.14	29.97	30.55	24.4	28.85	24.60	27.80	28.85	24.60
WP-2	Product	30.70	30.95	31.53	31.71	31.71	31.65	31.65	31.65	31.65	31.65	31.65	31.65	31.65	31.65	29.10	31.65	31.65
	Water	31.00	31.35	31.71	31.71	31.71	31.65	31.65	31.65	31.65	31.65	31.65	31.65	31.65	31.65	29.10	31.65	31.65
WP-3	Product	29.40	29.30	29.17	29.53	29.85	29.94	30.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Water	29.60	29.55	29.45	29.77	29.95	30.15	30.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-4	Product	33.60	33.75	33.96	34.70	35.20	35.65	36.56	36.14	36.30	36.41	36.1	35.2	35.20	35.40	34.90	35.40	35.40
	Water	35.00	35.10	35.23	36.60	36.85	37.00	37.21	37.30	37.30	36.43	36.92	35.65	35.42	35.70	35.03	35.42	35.70
WP-5	Product	31.90	32.10	32.62	33.60	34.00	34.57	34.50	34.19	34.31	32.99	32.18	30.68	30.85	30.72	29.25	30.85	30.72
	Water	31.90	32.10	32.62	33.60	34.00	34.57	34.50	34.19	34.31	32.99	32.18	30.68	30.85	30.72	29.25	30.85	30.72
WP-6	Product	28.80	28.80	28.75	28.80	28.80	28.78	28.75	28.77	28.77	28.76	28.76	28.77	28.77	28.76	28.75	28.77	28.76
	Water	28.80	28.80	28.78	28.80	28.80	28.73	28.76	28.78	28.80	28.81	28.79	28.77	28.79	28.77	28.81	28.79	28.77
WP-7	Product	31.25	34.30	31.77	32.10	32.20	32.45	32.34	31.29	28.65	26.75	27.2	25.1	23.75	25.90	22.60	23.75	25.90
	Water	31.25	34.30	31.77	32.10	32.20	32.45	32.34	31.29	28.65	26.75	27.2	25.1	23.75	25.90	22.60	23.75	25.90
WP-8	Product	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-9	Product	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-10	Product	28.35	28.15	28.10	28.60	28.75	28.88	29.79	28.89	28.58	28.51	28.73	28.2	28.15	28.50	27.80	28.15	28.50
	Water	28.45	28.35	28.30	28.72	28.90	29.14	29.80	28.90	28.70	28.70	28.8	28.3	28.18	28.60	27.90	28.18	28.60
WP-11	Product	NA	29.60	29.32	30.30	30.45	30.61	30.61	30.78	30.40	30.25	30.45	29.55	29.30	29.65	29.00	29.30	29.65
	Water	NA	29.68	29.49	30.43	31.00	31.39	31.39	31.25	30.51	30.26	31	29.85	29.35	29.70	29.10	29.35	29.70
WP-12	Product	NA	38.08	37.54	38.45	38.60	38.95	38.34	38.09	38.40	38.49	38.6	38.45	38.25	38.65	38.15	38.25	38.65
	Water	NA	38.25	37.76	38.50	39.00	39.24	38.90	38.19	38.95	38.93	39.51	38.95	38.65	38.80	38.70	38.65	38.80
WP-13	Product	NA	30.25	29.88	30.55	30.70	30.81	31.04	31.01	30.80	30.67	30.85	29.75	29.78	29.80	29.20	29.78	29.80
	Water	NA	30.25	29.88	30.55	30.70	31.42	31.61	31.44	31.02	30.74	31.03	29.77	29.80	29.82	29.20	29.80	29.82
WP-14	Product	NA	40.75	40.85	40.90	41.00	41.14	40.90	40.62	41.31	41.75	42.65	42.05	41.95	42.15	35.00	41.95	42.15
	Water	NA	40.75	40.85	40.90	41.00	41.14	40.90	40.62	41.31	41.76	42.7	42.05	42.10	42.20	35.00	42.10	42.20
WP-15	Product	NA	33.60	32.96	33.95	33.20	33.10	33.15	33.11	33.21	33.08	33.05	33.15	32.60	33.25	32.50	32.60	33.25
	Water	NA	33.60	33.16	34.30	33.40	33.49	33.58	33.12	33.58	33.42	33.4	33.4	33.15	33.35	33.05	33.15	33.35

Note: The bottom of Well WP-2 is 31.71 feet from top of casing, and was found to be dry prior to the January 18, 2001, monitoring event.

NA indicates not measured or not able to measure.

Note: well #6 has trace of product but not enough to measure.

Note: #3 MW 3rd Quarter 97 unable to measure due to grounding cable in hole.

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Table 1-B, Water Table Elevations, Feet above MSL

Monitor Well ID	1995		1996				1997				1998		1999		2000		
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 4/2/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	2nd Qtr 5/26/98	2nd Qtr 4/7/99	3rd Qtr 8/13/99	1st Qtr 3/29/00	2nd Qtr 7/18/00	4th Qtr 1/18/01	
WP-1	3546.01	3552.21	3550.01	3548.06	3547.56	3546.93	3546.75	3547.01	3548.29	3548.87	3548.04	3547.46	3553.61	3549.16	3553.41	3550.21	
WP-2	3546.77	3546.42	3546.06	3546.06	3546.06	3546.06	3546.12	3546.12	3546.12	3546.12	3546.12	3546.12	3546.12	3546.12	3546.12	3548.67	
WP-3	3551.61	3551.66	3551.76	3551.44	3551.26	3550.95	3551.06	3551.14	NA	NA	NA	NA	NA	NA	NA	NA	
WP-4	3542.15	3542.05	3541.92	3540.55	3540.30	3540.15	3539.98	3539.94	3539.85	3539.85	3540.72	3540.23	3541.50	3541.73	3541.45	3542.12	
WP-5	3547.60	3547.40	3546.88	3545.90	3545.50	3544.93	3544.79	3545.00	3545.31	3545.19	3546.51	3547.32	3548.82	3548.65	3548.78	3550.25	
WP-6	3556.56	3556.56	3556.58	3556.56	3556.56	3556.58	3556.63	3556.60	3548.80	3549.22	3585.36	3585.36	3549.26	3556.57	3550.16	3549.96	
WP-7	3551.79	3548.74	3551.27	3550.94	3550.84	3550.59	3550.57	3550.70	3551.75	3554.39	3556.29	3555.84	3557.94	3559.29	3557.14	3560.44	
WP-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
WP-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
WP-10	3551.63	3551.73	3551.78	3551.36	3551.18	3550.94	3550.94	3550.28	3551.18	3551.38	3551.38	3551.28	3551.78	3551.90	3551.48	3552.18	
WP-11	NA	3551.55	3551.74	3550.80	3550.23	3549.84	3549.70	3549.84	3549.98	3550.72	3550.97	3550.23	3551.38	3551.88	3551.53	3552.13	
WP-12	NA	3543.64	3544.13	3543.39	3542.89	3542.65	3542.87	3542.99	3543.70	3542.94	3542.96	3542.38	3542.94	3543.24	3543.09	3543.19	
WP-13	NA	3549.40	3549.77	3549.10	3548.95	3548.23	3548.22	3548.04	3548.21	3548.63	3548.91	3548.62	3549.88	3549.85	3549.83	3550.45	
WP-14	NA	3541.06	3540.96	3540.91	3540.81	3540.67	3540.68	3540.91	3541.19	3540.50	3540.05	3539.11	3539.76	3539.71	3539.61	3546.81	
WP-15	NA	3548.67	3549.11	3547.97	3548.87	3548.78	3548.80	3548.69	3549.15	3548.69	3548.85	3548.87	3548.87	3549.12	3548.92	3549.22	

The water table in well WP-3 may be below bottom of well which has an elevation of 3551.91 fmsl.
NA indicates not measured or not able to measure.

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Table 1-C, Product Thickness, feet

Monitor Well ID	1995				1996				1997				1998		1999		2000	
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 4/2/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	2nd Qtr 5/26/98	2nd Qtr 4/7/99	3rd Qtr 8/13/99	1st Qtr 3/29/00	2nd Qtr 7/18/00	4th Qtr 1/18/01		
WP-1																		
WP-2																		
WP-3	0.30	0.40	0.18															
WP-4	0.20	0.25	0.28	0.24	0.10	0.32	0.21	0.01	NA	NA	NA	NA	NA	NA	NA	NA		
WP-5	1.40	1.35	1.27	1.90	1.65	1.35	1.49	0.65	1.16	1.00	0.02	0.82	0.45	0.22	0.30	0.13		
WP-6																		
WP-7			0.03				0.01	0.01	0.01	0.03	0.05	0.03	0.02	0.02	0.01	0.06		
WP-8	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
WP-9	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
WP-10	0.10	0.20	0.20	0.12	0.15	0.26	0.25	0.01	0.01	0.12	0.19	0.07	0.10	0.03	0.10	0.10		
WP-11	NA	0.08	0.17	0.13	0.55	0.78	0.92	0.78	0.47	0.11	0.01	0.55	0.30	0.05	0.05	0.10		
WP-12	NA	0.17	0.22	0.05	0.40	0.29	0.23	0.56	0.10	0.55	0.44	0.91	0.50	0.40	0.15	0.55		
WP-13	NA					0.61	0.60	0.57	0.43	0.22	0.07	0.18	0.02	0.02	0.02			
WP-14	NA										0.01	0.05		0.15	0.05			
WP-15	NA		0.20	0.35	0.20	0.39	0.38	0.43	0.01	0.37	0.34	0.35	0.25	0.55	0.10	0.55		

Blanks indicate no product measured. NA indicates not measured or not able to measure.

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TABLE 1-D MEASUREMENTS TO BOTTOM OF WELLS								
Monitor Well ID	1997				1998		1999	
	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	2nd Qtr 5/26/98	2nd Qtr 4/7/99	3rd Qtr 8/13/99	
MW-1	34.82	34.82	34.82	34.82	34.82	34.82	34.82	
MW-2	31.65	31.65	31.65	31.65	31.65	31.65	31.65	
MW-3	38.10	38.10	38.10	38.10	38.10	38.10	38.10	
MW-4	37.40	37.40	37.40	37.40	37.40	37.40	37.40	
MW-5	38.00	38.00	38.00	38.00	38.00	38.00	38.00	
MW-6	30.50	30.50	30.50	30.50	30.50	30.50	30.50	
MW-7	37.58	37.58	37.58	37.58	37.58	37.58	37.58	
MW-8	NA	NA	NA	NA	NA	NA	NA	
MW-9	NA	NA	NA	NA	NA	NA	NA	
MW-10	37.20	37.20	37.20	37.20	37.20	37.20	37.20	
MW-11	36.40	36.40	36.40	36.40	36.40	36.40	36.40	
MW-12	43.20	43.20	43.20	43.20	43.20	43.20	43.20	
MW-13	36.40	36.40	36.40	36.40	36.40	36.40	36.40	
MW-14	48.30	48.30	48.30	48.30	48.30	48.30	48.30	
MW-15	35.10	35.10	35.10	35.10	35.10	35.10	35.10	

TABLE 1-E THICKNESS OF PRODUCT AND WATER TO BOTTOM OF HOLE										
Monitor Well ID	1997				1998		1999		2000	
	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 2/4/00	2nd Qtr 5/26/98	2nd Qtr 4/7/99	2nd Qtr 4/7/99	4th Qtr 1/18/01		
MW-1	3.56	3.82	5.10	5.68	4.85	4.27	4.27	7.02		
MW-2	dry	dry	dry	dry	dry	dry	dry	2.55		
MW-3	8.16	8.04	NA	NA	NA	NA	NA	NA		
MW-4	1.72	0.84	1.26	1.10	0.99	1.30	1.30	2.50		
MW-5	3.29	3.50	3.81	3.69	5.01	5.82	5.82	8.75		
MW-6	1.78	1.75	1.73	1.73	1.74	1.74	1.74	1.75		
MW-7	5.11	5.24	6.29	8.93	10.83	10.38	10.38	14.98		
MW-8	NA	NA	NA	NA	NA	NA	NA	NA		
MW-9	NA	NA	NA	NA	NA	NA	NA	NA		
MW-10	8.31	7.41	8.31	8.62	8.69	8.47	8.47	9.40		
MW-11	5.79	5.79	5.62	6.00	6.15	5.95	5.95	7.40		
MW-12	4.41	4.86	5.11	4.80	4.71	4.60	4.60	5.05		
MW-13	5.57	5.36	5.39	5.60	5.73	5.55	5.55	7.20		
MW-14	7.17	7.40	7.68	6.99	6.55	5.65	5.65	13.30		
MW-15	2.01	1.95	1.99	1.89	2.02	2.05	2.05	2.60		

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
10/31/95	WP-1	3,578.01	34.82	32.00	3,546.01			3,546.01
11/14/95				25.80	3,552.21			3,552.21
1/24/96				28.00	3,550.01			3,550.01
4/2/96				29.95	3,548.06			3,548.06
9/26/96				30.45	3,547.56			3,547.56
1/28/97				31.08	3,546.93			3,546.93
2/27/97				31.26	3,546.75			3,546.75
5/19/97				31.00	3,547.01			3,547.01
8/19/97				29.72	3,548.29			3,548.29
1/5/98				29.14	3,548.87			3,548.87
5/26/98				29.97	3,548.04			3,548.04
4/7/99				30.55	3,547.46			3,547.46
8/13/99				24.40	3,553.61			3,553.61
10/28/99				26.20	3,551.81			3,551.81
12/14/99				27.25	3,550.76			3,550.76
3/29/00				28.85	3,549.16			3,549.16
7/18/00				24.60	3,553.41			3,553.41
1/18/01				27.80	3,550.21			3,550.21
10/31/95	WP-2	3,577.77	31.65	31.00	3,546.77	30.70	0.30	3,546.99
11/14/95				31.35	3,546.42	30.95	0.40	3,546.71
1/24/96				31.71	3,546.06	31.53	0.18	3,546.19
4/2/96				31.71	3,546.06			3,546.06
9/26/96				31.71	3,546.06			3,546.06
1/28/97				31.71	3,546.06			3,546.06
2/27/97				31.65	3,546.12			3,546.12
5/19/97				31.65	3,546.12			3,546.12
8/19/97				31.65	3,546.12			3,546.12
1/5/98				31.65	3,546.12			3,546.12
5/26/98				31.65	3,546.12			3,546.12
4/7/99				31.65	3,546.12			3,546.12
8/13/99				31.65	3,546.12			3,546.12
12/14/99				31.65	3,546.12			3,546.12
3/29/00				31.65	3,546.12			3,546.12
7/18/00				31.65	3,546.12			3,546.12
1/18/01				29.10	3,548.67			3,548.67
10/31/95	WP-3	3,581.21	38.10	29.60	3,551.61	29.40	0.20	3,551.76
11/14/95				29.55	3,551.66	29.30	0.25	3,551.84

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
1/24/96	WP-3 (cont'd)			29.45	3,551.76	29.17	0.28	3,551.96
4/2/96				29.77	3,551.44	29.53	0.24	3,551.61
9/26/96				29.95	3,551.26	29.85	0.10	3,551.33
1/28/97				30.26	3,550.95	29.94	0.32	3,551.18
2/27/97				30.15	3,551.06	29.94	0.21	3,551.21
5/19/97				30.07	3,551.14	30.06	0.01	3,551.15
8/19/97				NA	NA	NA	NA	NA
1/5/98				NA	NA	NA	NA	NA
5/26/98				NA	NA	NA	NA	NA
4/7/99				NA	NA	NA	NA	NA
8/13/99	WP-4			NA	NA	NA	NA	NA
12/14/99				NA	NA	NA	NA	NA
3/29/00				NA	NA	NA	NA	NA
7/18/00				NA	NA	NA	NA	NA
1/18/01				NA	NA	NA	NA	NA
10/31/95		3,577.15	37.40	35.00	3,542.15	33.60	1.40	3,543.17
11/14/95				35.10	3,542.05	33.75	1.35	3,543.03
1/24/96				35.23	3,541.92	33.96	1.27	3,542.84
4/2/96				36.60	3,540.55	34.70	1.90	3,541.93
9/26/96				36.85	3,540.30	35.20	1.65	3,541.50
1/28/97	WP-5			37.00	3,540.15	35.65	1.35	3,541.13
2/27/97				37.17	3,539.98	35.68	1.49	3,541.06
5/19/97				37.21	3,539.94	36.56	0.65	3,540.41
8/19/97				37.30	3,539.85	36.14	1.16	3,540.69
1/5/98				37.30	3,539.85	36.30	1.00	3,540.58
5/26/98				36.43	3,540.72	36.41	0.02	3,540.73
4/7/99				36.92	3,540.23	36.10	0.82	3,540.82
8/13/99				35.65	3,541.50	35.20	0.45	3,541.83
12/14/99				35.20	3,541.95	35.00	0.20	3,542.10
3/29/00				35.42	3,541.73	35.20	0.22	3,541.89
7/18/00	WP-5			35.70	3,541.45	35.40	0.30	3,541.67
1/18/01				35.03	3,542.12	34.90	0.13	3,542.21
10/31/95		3,579.50	38.00	31.90	3,547.60			3,547.60
11/14/95				32.10	3,547.40			3,547.40
1/24/96	WP-5			32.62	3,546.88			3,546.88
4/2/96				33.60	3,545.90			3,545.90

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
9/26/96	WP-5 (cont'd)			34.00	3,545.50			3,545.50
1/28/97				34.57	3,544.93			3,544.93
2/27/97				34.71	3,544.79			3,544.79
5/19/97				34.50	3,545.00			3,545.00
8/19/97				34.19	3,545.31			3,545.31
1/5/98				34.31	3,545.19			3,545.19
5/26/98				32.99	3,546.51			3,546.51
4/7/99				32.18	3,547.32			3,547.32
8/13/99				30.68	3,548.82			3,548.82
10/28/99				30.35	3,549.15			3,549.15
12/14/99				30.35	3,549.15			3,549.15
3/29/00				30.85	3,548.65			3,548.65
7/18/00				30.72	3,548.78			3,548.78
1/18/01				29.25	3,550.25			3,550.25
10/31/95	WP-6	3,585.36	30.50	28.80	3,556.56			3,556.56
11/14/95				28.80	3,556.56			3,556.56
1/24/96				28.78	3,556.58	28.75	0.03	3,556.60
4/2/96				28.80	3,556.56			3,556.56
9/26/96				28.80	3,556.56			3,556.56
1/28/97				28.78	3,556.58			3,556.58
2/27/97				28.73	3,556.63	28.72	0.01	3,556.64
5/19/97				28.76	3,556.60	28.75	0.01	3,556.61
8/19/97				28.78	3,556.58	28.77	0.01	3,556.59
1/5/98				28.80	3,556.56	28.77	0.03	3,556.58
5/26/98				28.81	3,556.55	28.76	0.05	3,556.59
4/7/99				28.79	3,556.57	28.76	0.03	3,556.59
8/13/99				28.77	3,556.59	28.75	0.02	3,556.60
12/14/99				28.80	3,556.56	28.78	0.02	3,556.57
3/29/00	WP-7			28.79	3,556.57	28.77	0.02	3,556.58
7/18/00				28.77	3,556.59	28.76	0.01	3,556.60
1/18/01				28.81	3,556.55	28.75	0.06	3,556.59
10/31/95		3,583.04	37.58	31.25	3,551.79			3,551.79
11/14/95				34.30	3,548.74			3,548.74
1/24/96				31.77	3,551.27			3,551.27
4/2/96				32.10	3,550.94			3,550.94
9/26/96				32.20	3,550.84			3,550.84
1/28/97				32.45	3,550.59			3,550.59

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
2/27/97	WP-7 (cont'd)			32.47	3,550.57			3,550.57
5/19/97				32.34	3,550.70			3,550.70
8/19/97				31.29	3,551.75			3,551.75
1/5/98				28.65	3,554.39			3,554.39
5/26/98				26.75	3,556.29			3,556.29
4/7/99				27.20	3,555.84			3,555.84
8/13/99				25.10	3,557.94			3,557.94
10/28/99				24.65	3,558.39			3,558.39
12/14/99				24.35	3,558.69			3,558.69
3/29/00				23.75	3,559.29			3,559.29
7/18/00				25.90	3,557.14			3,557.14
1/18/01				22.60	3,560.44			3,560.44
10/31/95	WP-10	3,580.08	37.20	28.45	3,551.63	28.35	0.10	3,551.70
11/14/95				28.35	3,551.73	28.15	0.20	3,551.88
1/24/96				28.30	3,551.78	28.10	0.20	3,551.93
4/2/96				28.72	3,551.36	28.60	0.12	3,551.45
9/26/96				28.90	3,551.18	28.75	0.15	3,551.29
1/28/97				29.14	3,550.94	28.88	0.26	3,551.13
2/27/97				29.14	3,550.94	28.89	0.25	3,551.12
5/19/97				29.80	3,550.28	29.79	0.01	3,550.29
8/19/97				28.90	3,551.18	28.89	0.01	3,551.19
1/5/98				28.70	3,551.38	28.58	0.12	3,551.47
5/26/98				28.70	3,551.38	28.51	0.19	3,551.52
4/7/99				28.80	3,551.28	28.73	0.07	3,551.33
8/13/99				28.30	3,551.78	28.20	0.10	3,551.85
12/14/99				28.00	3,552.08	27.95	0.05	3,552.12
3/29/00				28.18	3,551.90	28.15	0.03	3,551.92
7/18/00				28.60	3,551.48	28.50	0.10	3,551.55
1/18/01				27.90	3,552.18	27.80	0.10	3,552.25
11/14/95	WP-11	3,581.23	36.40	29.68	3,551.55	29.60	0.08	3,551.61
1/24/96				29.49	3,551.74	29.32	0.17	3,551.86
4/2/96				30.43	3,550.80	30.30	0.13	3,550.89
9/26/96				31.00	3,550.23	30.45	0.55	3,550.63
1/28/97				31.39	3,549.84	30.61	0.78	3,550.41
2/27/97				31.53	3,549.70	30.61	0.92	3,550.37
5/19/97				31.39	3,549.84	30.61	0.78	3,550.41
8/19/97				31.25	3,549.98	30.78	0.47	3,550.32

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
1/5/98	WP-11 (cont'd)			30.51	3,550.72	30.40	0.11	3,550.80
5/26/98				30.26	3,550.97	30.25	0.01	3,550.98
4/7/99				31.00	3,550.23	30.45	0.55	3,550.63
8/13/99				29.85	3,551.38	29.55	0.30	3,551.60
12/14/99				29.25	3,551.98	29.15	0.10	3,552.05
3/29/00				29.35	3,551.88	29.30	0.05	3,551.92
7/18/00				29.70	3,551.53	29.65	0.05	3,551.57
1/18/01				29.10	3,552.13	29.00	0.10	3,552.20
11/14/95	WP-12	3,581.89	43.2	38.25	3,543.64			3,543.64
1/24/96				37.76	3,544.13			3,544.13
4/2/96				38.50	3,543.39			3,543.39
9/26/96				39.00	3,542.89	38.60	0.40	3,543.18
1/28/97				39.24	3,542.65	38.95	0.29	3,542.86
2/27/97				39.02	3,542.87	38.79	0.23	3,543.04
5/19/97				38.90	3,542.99	38.34	0.56	3,543.40
8/19/97				38.19	3,543.70	38.09	0.10	3,543.77
1/5/98				38.95	3,542.94	38.40	0.55	3,543.34
5/26/98				38.93	3,542.96	38.49	0.44	3,543.28
4/7/99				39.51	3,542.38	38.60	0.91	3,543.04
8/13/99				38.95	3,542.94	38.45	0.50	3,543.30
12/14/99				38.45	3,543.44	38.20	0.25	3,543.62
3/29/00				38.65	3,543.24	38.25	0.40	3,543.53
7/18/00				38.80	3,543.09	38.65	0.15	3,543.20
1/18/01				38.70	3,543.19	38.15	0.55	3,543.59
11/14/95	WP-13	3,579.65	36.40	30.25	3,549.40			3,549.40
1/24/96				29.88	3,549.77			3,549.77
4/2/96				30.55	3,549.10			3,549.10
9/26/96				30.70	3,548.95			3,548.95
1/28/97				31.42	3,548.23	30.81	0.61	3,548.67
2/27/97				31.43	3,548.22	30.83	0.60	3,548.66
5/19/97				31.61	3,548.04	31.04	0.57	3,548.45
8/19/97				31.44	3,548.21	31.01	0.43	3,548.52
1/5/98				31.02	3,548.63	30.80	0.22	3,548.79
5/26/98				30.74	3,548.91	30.67	0.07	3,548.96
4/7/99				31.03	3,548.62	30.85	0.18	3,548.75
8/13/99				29.77	3,549.88	29.75	0.02	3,549.89
12/14/99				29.48	3,550.17	29.45	0.03	3,550.19

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
3/29/00	WP-13 (cont'd)			29.80	3,549.85	29.78	0.02	3,549.86
7/18/00				29.82	3,549.83	29.80	0.02	3,549.84
1/18/01				29.20	3,550.45			3,550.45
11/14/95	WP-14	3,581.81	48.30	40.75	3,541.06			3,541.06
1/24/96				40.85	3,540.96			3,540.96
4/2/96				40.90	3,540.91			3,540.91
9/26/96				41.00	3,540.81			3,540.81
1/28/97				41.14	3,540.67			3,540.67
2/27/97				41.13	3,540.68			3,540.68
5/19/97				40.90	3,540.91			3,540.91
8/19/97				40.62	3,541.19			3,541.19
1/5/98				41.31	3,540.50			3,540.50
5/26/98				41.76	3,540.05	41.75	0.01	3,540.06
4/7/99				42.70	3,539.11	42.65	0.05	3,539.15
8/13/99				42.05	3,539.76			3,539.76
10/28/99				41.85	3,539.96			3,539.96
12/14/99				41.90	3,539.91			3,539.91
3/29/00				42.10	3,539.71	41.95	0.15	3,539.82
7/18/00				42.20	3,539.61	42.15	0.05	3,539.65
1/18/01				35.00	3,546.81			3,546.81
11/14/95	WP-15	3,582.27	35.10	33.60	3,548.67			3,548.67
1/24/96				33.16	3,549.11	32.96	0.20	3,549.26
4/2/96				34.30	3,547.97	33.95	0.35	3,548.22
9/26/96				33.40	3,548.87	33.20	0.20	3,549.02
1/28/97				33.49	3,548.78	33.10	0.39	3,549.06
2/27/97				33.47	3,548.80	33.09	0.38	3,549.08
5/19/97				33.58	3,548.69	33.15	0.43	3,549.00
8/19/97				33.12	3,549.15	33.11	0.01	3,549.16
1/5/98				33.58	3,548.69	33.21	0.37	3,548.96
5/26/98				33.42	3,548.85	33.08	0.34	3,549.10
4/7/99				33.4	3,548.87	33.05	0.35	3,549.12
8/13/99				33.4	3,548.87	33.15	0.25	3,549.05
12/14/99				33.35	3,548.92	33.00	0.35	3,549.17
3/29/00				33.15	3,549.12	32.60	0.55	3,549.52
7/18/00				33.35	3,548.92	33.25	0.10	3,548.99
1/18/01				33.05	3,549.22	32.50	0.55	3,549.62

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
ft AMSL		Feet Above Mean Sea Level						

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ARCADIS GERAGHTY & MILLER

Table 2A. Summary of Groundwater Quality Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	Chlorides (mg/L)	TDS (mg/L)	Sulfate (mg/L)
10/31/95	WP-1	5,100	ND	18	ND	5,118	30	907	ND
12/20/95		5,000	ND	ND	ND	5,000	16	798	ND
2/19/96		6,300	ND	ND	ND	6,300	21	1,146	ND
7/11/96		2,500	ND	60	58	2,618	78	1,369	9
10/11/96		1,100	33	68	280	1,481	202	1,446	8
2/27/97		590	ND	12	5	607	277	1,389	9
5/19/97		200	1	8	1	210	594	14,099	8,310
8/19/97		1,300	ND	ND	130	1,430	226	1,530	29
1/5/98		1,200	ND	24	ND	1,224	92	1,319	9
5/26/98		1,500	ND	34	29	1,563	31	NA	4
10/28/99		690	ND	ND	ND	690	28	851	6.53
1/8/00		640	ND	ND	ND	640	29.4	890	5.4
7/19/00	WP-5	1,700	ND	39	ND	1,739	74.9	1,070	23
1/26/01		1,800	ND	5.9	ND	1,805.9	22.4	540	3.5
10/31/95		140	ND	2	2	144	6,700	16,229	2,960
12/20/95		110	ND	1	ND	111	7,500	17,087	2,670
2/19/96		140	ND	ND	ND	140	9,000	20,202	3,090
7/11/96		180	ND	ND	ND	180	6,250	15,321	2,880
10/11/96		200	ND	1.1	ND	201.1	6,150	15,024	2,800
1/17/97		260	1.9	2.2	ND	264.1	6,350	15,833	3,110
2/27/97		290	ND	1.1	ND	291.0	6,300	15,190	2,800
5/19/97		210	ND	ND	ND	210.0	6,820	15,288	2,440
8/19/97		430	ND	ND	ND	430	14,200	32,222	5,550
1/5/98		750	ND	ND	ND	750	5,760	14,579	2,900
10/28/99		230	ND	ND	ND	230	8,410	20,200	3,830
1/8/00		190	ND	ND	ND	190	9,340	23,700	4,780

Footnotes on last page.

ARCADIS GERAGHTY & MILLER

Table 2A. Summary of Groundwater Quality Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	Chlorides (mg/L)	TDS (mg/L)	Sulfate (mg/L)
7/19/00	WP-5 (cont'd)	150	ND	ND	ND	150	9,530	22,000	1,400
1/26/01		96	ND	ND	ND	96	8,790	15,700	9,400
10/31/95	WP-6	620	ND	880	180	1,680	2,100	5,271	53
12/20/95		290	ND	320	70	680	1,900	5,259	28
02/19/96		610	ND	630	ND	1,240	1,500	4,718	21
07/11/96		280	25	450	42	797	1,520	4,724	34
10/11/96		280	ND	910	500	1,690	1,670	3,678	17
01/17/97		180	ND	580	ND	760	1,500	4,371	268
02/27/97		260	ND	690	ND	950	1,420	4,654	71
07/19/00		34	ND	160	ND	194	1,660	4,310	46
01/26/01		40	ND	130	8.4	178.4	1,900	2,900	480
10/31/95	WP-7	ND	ND	ND	ND	ND	16,000	35,492	5,830
12/20/95		ND	ND	ND	ND	ND	15,000	32,986	5,390
2/19/96		ND	ND	1	ND	1	16,500	36,587	6,160
7/11/96		ND	ND	ND	1.1	1.1	15,200	34,522	6,270
10/11/96		ND	ND	ND	ND	ND	15,200	33,712	5,720
1/17/97		ND	ND	ND	ND	ND	15,200	30,385	3,510
2/27/97		ND	ND	ND	ND	ND	15,200	34,468	6,170
5/19/97		ND	ND	ND	ND	ND	16,200	34,470	5,160
8/19/97		ND	ND	ND	ND	ND	6,870	16,781	3,350
1/5/98		ND	ND	ND	ND	ND	9,300	26,116	6,900
5/26/98		ND	ND	ND	ND	ND	12,700	NA	8,800
10/28/99		ND	ND	ND	ND	ND	11,800	30,800	7,080
1/8/00		ND	ND	ND	ND	ND	11,700	28,600	7,560
7/19/00		ND	ND	ND	ND	ND	10,600	25,400	1,370
1/26/01		ND	ND	ND	ND	ND	7,580	7,180	11,700

Footnotes on last page.

ARCADIS GERAGHTY & MILLER

Table 2A. Summary of Groundwater Quality Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	Chlorides (mg/L)	TDS (mg/L)	Sulfate (mg/L)
12/20/95	WP-13	5,100	ND	170	ND	5,270	2,300	5,387	11
2/19/96		5,700	ND	150	ND	5,850	1,150	3,495	5
7/11/96		3,600	ND	130	ND	3,730	975	3,229	13
10/11/96		3,400	ND	500	320	4,220	975	3,027	9
1/17/97		2,700	63	700	140	3,603	487	2,207	15
7/19/00		1,800	ND	160	ND	1,960	681	2,310	288
1/26/01		1,300	ND	57	ND	1,357	569	13,400	3.5
12/20/95	WP-14	120	ND	2	21	143	7,750	15,888	1,170
2/19/96		81	ND	1	ND	82	10,000	21,366	2,670
7/11/96		27	ND	ND	ND	27	12,200	25,570	3,040
10/11/96		29	1.4	6.1	12	49	11,500	19,754	29
1/17/97		ND	ND	ND	ND	ND	11,700	24,483	3,110
2/27/97		27	1.5	1.6	1.6	31.7	11,700	25,463	3,780
5/19/97		32	1.4	1.3	ND	34.7	12,400	25,009	2,740
8/19/97		65	ND	55	55	175	10,600	23,619	3,790
1/5/98		30	ND	2.9	6.5	39.4	12,000	25,345	3,500
10/28/99		11	ND	15	30.8	56.8	11,400	24,500	3,460
1/8/00		10	1	17	24	52	11,200	24,000	3,060
7/19/00		29	ND	7	5.4	41.4	11,100	20,500	2,300
1/26/01		18	ND	11	14	43	11,600	18,000	3,950

ND Not Sampled

NS Not Sampled

µg/L Micrograms per liter.

mg/L Milligrams per liter.

G:\PROJECT\DYNEGY\OK532006\TAB2A.XLS\WATER QUALITY DATA

ARCADIS GERAGHTY & MILLER

Table 2B. Summary of Groundwater Quality Data, Total Metals, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Silver (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Mercury (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Lead (mg/L)	Selenium (mg/L)
2/27/97	WP-1	ND	ND	1.3	120	ND	0.02	28	ND	5	39	ND	ND
5/19/97		ND	ND	2.6	676	ND	0.15	134	ND	28	90.3	0.1	ND
8/19/97		ND	ND	1.5	346	ND	0.03	32	ND	10	44.8	ND	ND
1/5/98		ND	ND	0.8	122	ND	0.03	16	ND	7	26.3	ND	ND
5/26/98		ND	ND	0.7	61.6	ND	ND	4.45	ND	4.0	22.4	ND	ND
10/28/99		ND	0.0519	7.32	123	ND	ND	3.56	ND	5.16	70.9	ND	ND
1/18/00		ND	0.0447	4.9	107	ND	ND	5.34	ND	5.63	62.3	ND	ND
7/19/00		ND	0.0333	2.77	77.1	ND	ND	2.92	ND	4.74	38.1	ND	ND
1/26/01	WP-5	ND	0.0361	4.23	98	ND	ND	4.53	ND	5.6	57.2	ND	ND
2/27/97		ND	ND	0.5	508	ND	ND	7.1	ND	56	125	ND	ND
5/19/97		ND	ND	1.26	2330	ND	0.08	69.6	ND	75	249	ND	ND
8/19/97		ND	ND	0.05	278	ND	ND	0.6	ND	49	108	ND	ND
1/5/98		ND	ND	0.21	393	ND	ND	3.0	ND	51	108	ND	ND
5/26/98		ND	ND	0.03	311	ND	ND	0.28	ND	53	120	ND	ND
10/28/99		ND	0.00584	0.0468	432	ND	ND	0.523	ND	56.5	222	ND	0.00755
1/18/00		ND	0.00903	0.0235	496	ND	ND	0.066	ND	79.1	266	ND	ND
7/19/00	WP-6	ND	0.00837	0.0313	460	ND	ND	0.451	ND	73.6	221	ND	ND
1/26/01		ND	0.0071	0.0219	424	ND	ND	0.11	ND	75	196	ND	ND
2/27/97		ND	ND	0.66	189	ND	0.14	22.5	ND	26	134	ND	ND
5/19/97		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/19/97		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/5/98		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/26/98		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/99		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/18/00	WP-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/19/00		ND	0.00923	0.36	144	ND	0.0165	4.07	ND	17.8	150	ND	ND
1/26/01	WP-6	ND	ND	0.284	188	ND	ND	2.01	ND	20.9	147	ND	ND

ARCADIS GERAGHTY & MILLER

Table 2B. Summary of Groundwater Quality Data, Total Metals, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Silver (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Mercury (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Lead (mg/L)	Selenium (mg/L)
2/27/97	WP-7	ND	ND	0.06	909	ND	ND	1.4	ND	123	358	ND	ND
5/19/97		ND	ND	0.52	1350	ND	0.0	14.6	ND	119	377	ND	ND
8/19/97		ND	ND	0.17	1110	ND	ND	4.7	ND	114	381	ND	ND
1/5/98		ND	ND	0.20	634	ND	ND	6.5	ND	70	157	ND	ND
5/26/98		ND	ND	0.045	749	ND	ND	1.68	ND	113	195	ND	ND
10/28/99		ND	0.0247	0.0313	698	ND	0.0415	0.33	0.0014	173	158	ND	0.0142
1/18/00		ND	0.0252	0.0222	650	ND	ND	0.0534	ND	209	145	ND	0.00794
7/19/00		ND	0.019	0.0265	953	ND	ND	0.0873	0.000908	267	160	ND	0.00551
1/26/01		ND	0.0319	0.023	508	ND	ND	0.0808	ND	208	110	ND	0.0138
7/19/00	WP-13	ND	ND	1.89	81.2	ND	ND	1.05	ND	6.68	49.2	ND	ND
1/26/01		ND	0.00586	1.95	73.4	ND	ND	1.07	ND	6.68	49.1	ND	ND
2/27/97	WP-14	ND	ND	0.46	890	ND	ND	5.2	ND	78	314	ND	ND
5/19/97		ND	ND	0.68	1160	ND	0.0	6.7	ND	79	325	ND	ND
8/19/97		ND	ND	0.45	859	ND	ND	4.8	ND	69	304	ND	ND
1/5/98		ND	ND	0.36	923	ND	ND	4.6	ND	70	310	ND	ND
5/26/98		ND	ND	0.080	816	ND	ND	2.25	ND	75.0	328	ND	ND
10/28/99		ND	0.00773	0.0338	759	ND	ND	2.63	ND	74.5	323	ND	ND
1/18/00		ND	0.00819	0.0405	633	ND	ND	1.98	ND	71.6	276	ND	ND
7/19/00		ND	0.00991	0.0502	572	ND	ND	1.7	ND	69.9	279	ND	ND
1/26/01		ND	0.0164	0.251	679	ND	ND	1.53	ND	77.7	322	ND	ND

NS Not Sampled

ND Not Detected

µg/L Micrograms per liter.

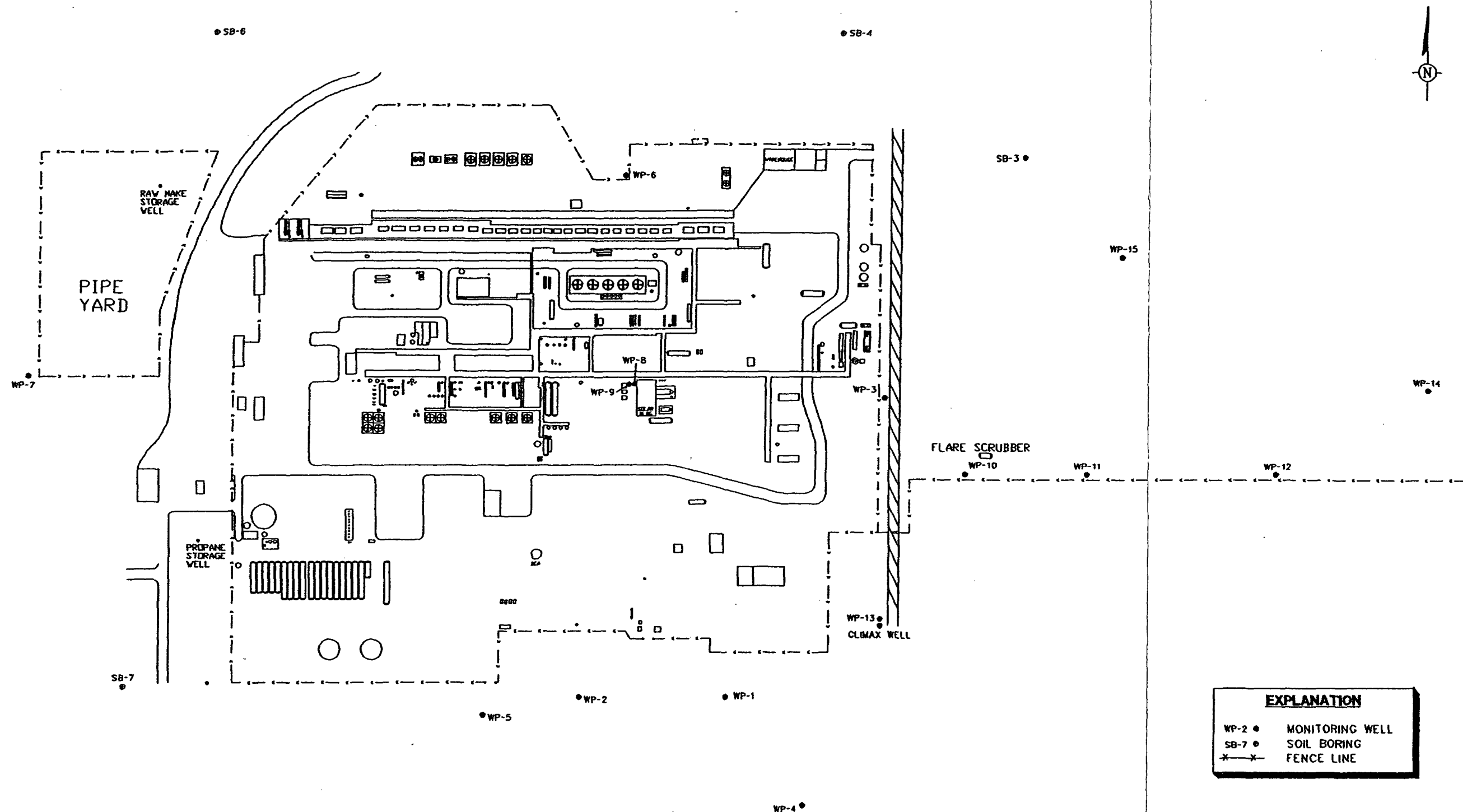
mg/L Milligrams per liter.

✓

FIGURES



DWG DATE: 31JAN96 | PRJCT NO.: OK0532.002 | FILE NO.: -- | DRAWING: SITE-3 | CHECKED: JOHN SHONFELT | APPROVED: JOHN SHONFELT | DRAFTER: JIM HARBESTON



EXPLANATION	
WP-2 •	MONITORING WELL
SB-7 •	SOIL BORING
— x —	FENCE LINE

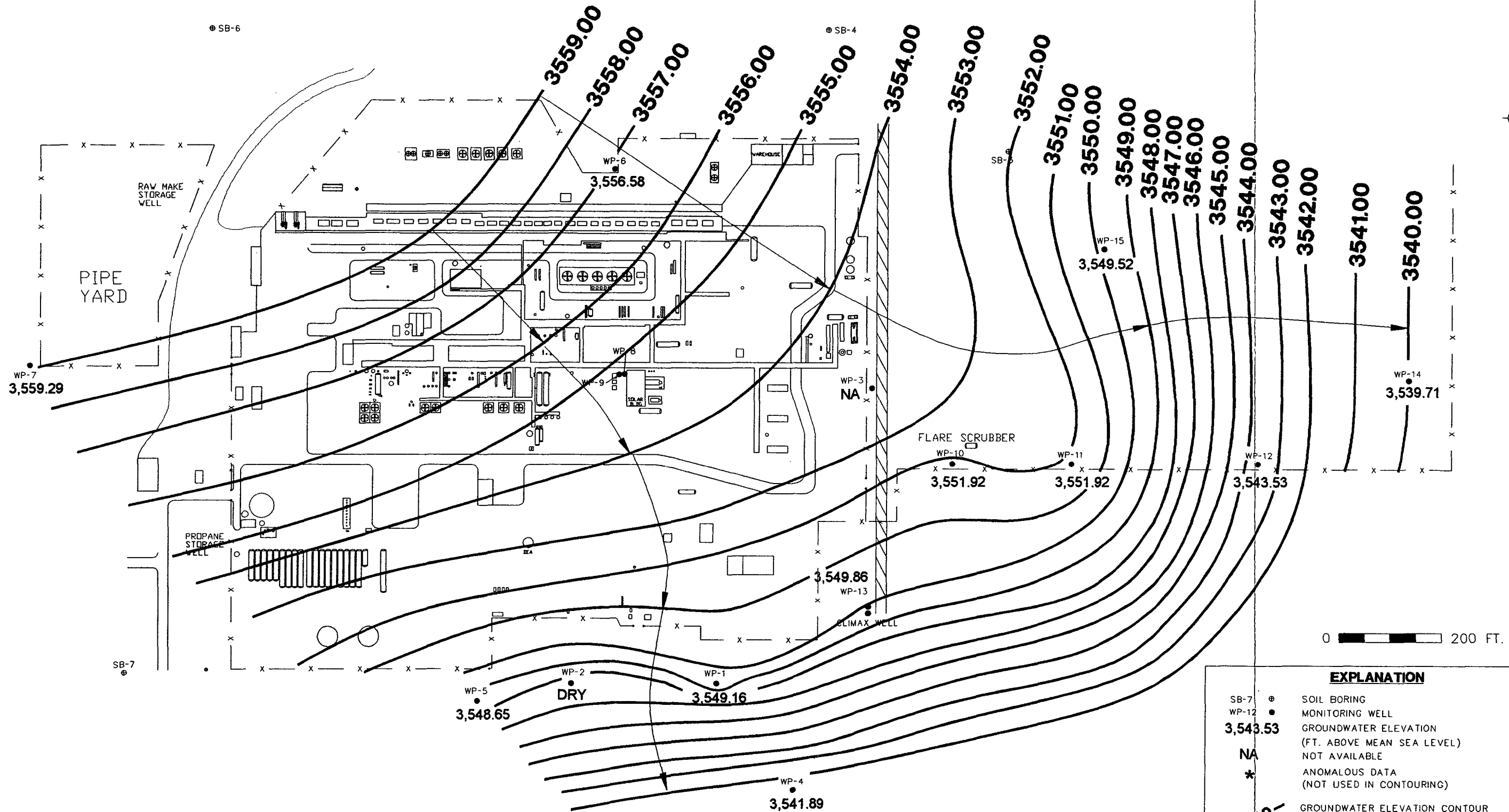


0 200 ft.

SITE MAP WITH SOIL BORINGS AND OBSERVATION WELL LOCATIONS

WARREN PETROLEUM
 MONUMENT, NEW MEXICO

FIGURE
 1



NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

EXPLANATION

- SB-7 ● SOIL BORING
- WP-12 ● MONITORING WELL
- 3,543.53 GROUNDWATER ELEVATION
(FT. ABOVE MEAN SEA LEVEL)
- NA NOT AVAILABLE
- * ANOMALOUS DATA
(NOT USED IN CONTOURING)
- 3545.00- GROUNDWATER ELEVATION CONTOUR
(DASHED WHERE INFERRED)
- CONTOUR INTERVAL = 1.0 FT.
- GROUNDWATER FLOW DIRECTION
- x-x- FENCE LINE

ARCADIS GERAGHTY & MILLER



5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 664-9900 Fax: (918) 664-9925

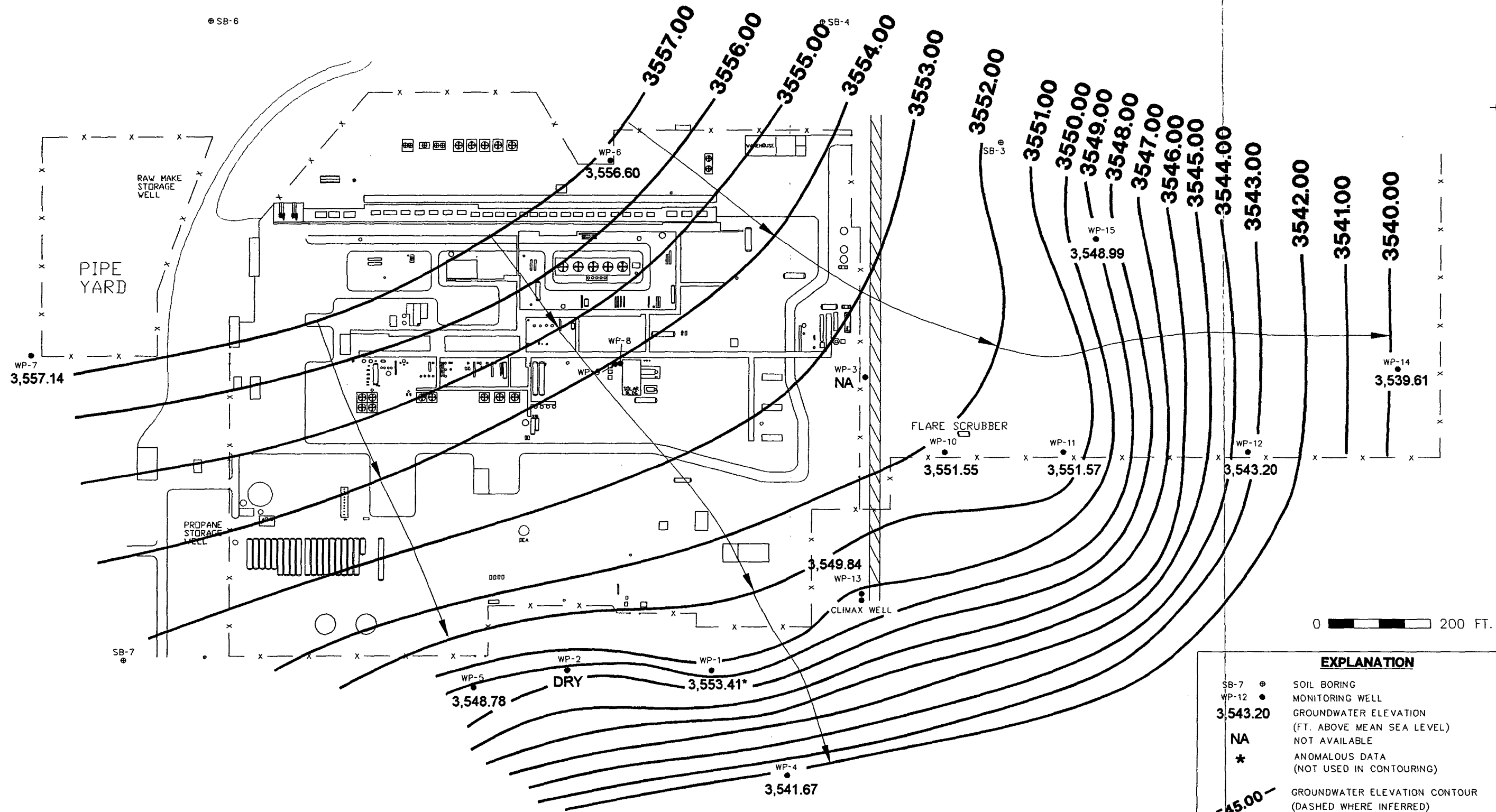
GROUNDWATER ELEVATION CONTOURS MARCH 29, 2000

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0006

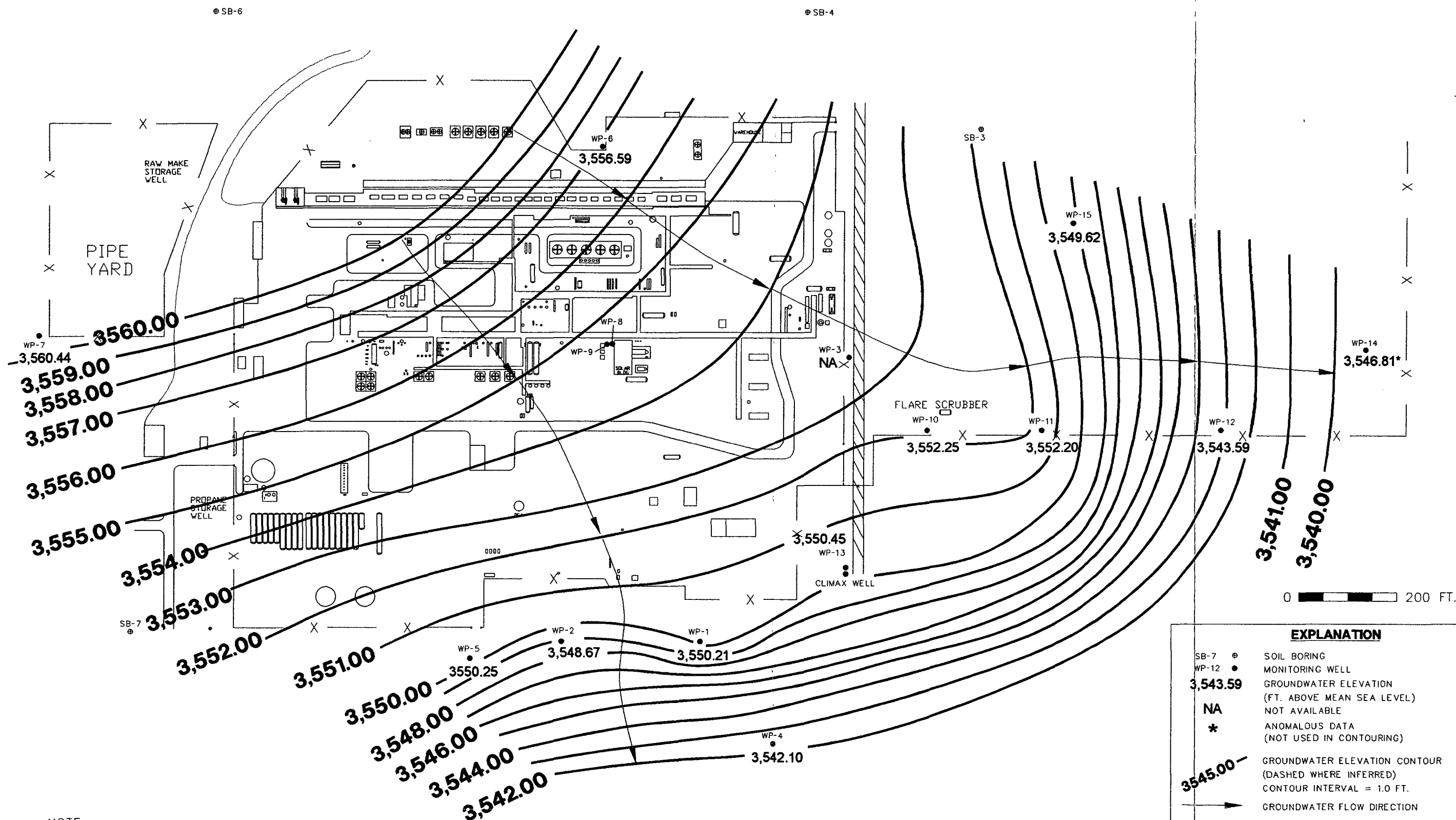
FIGURE NUMBER

2



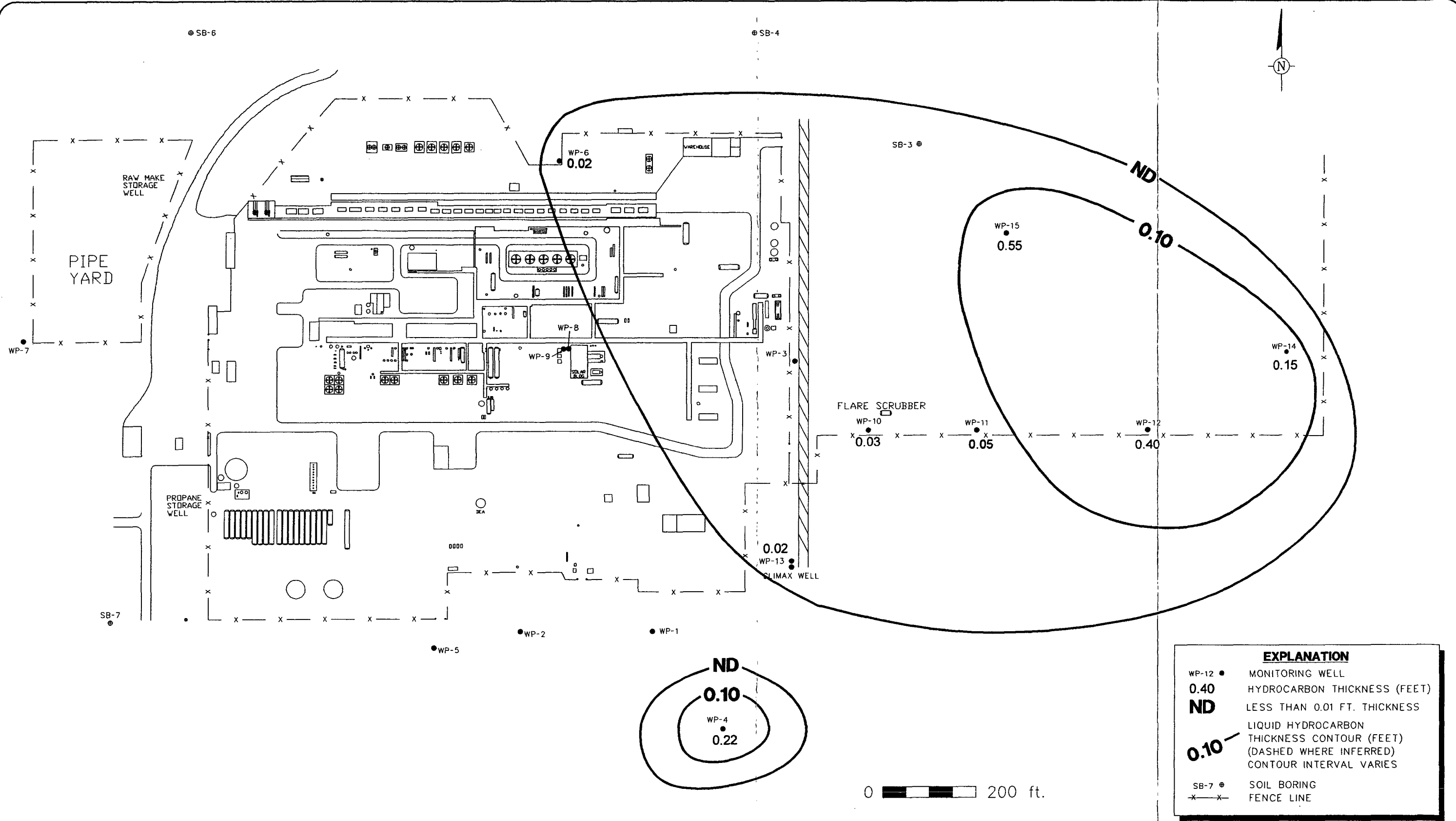
NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

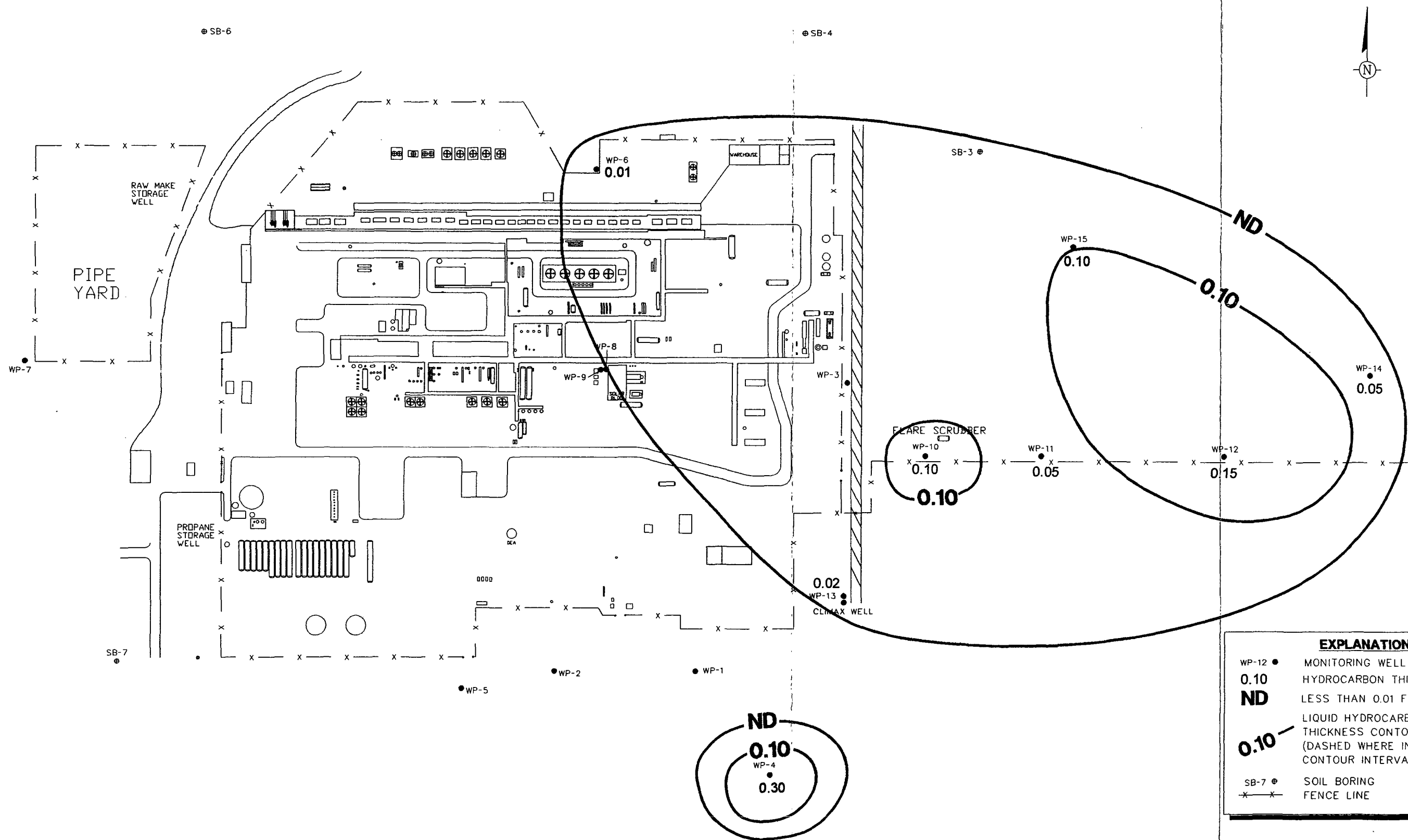
EXPLANATION	
SB-7	SOIL BORING
WP-12	MONITORING WELL
3543.20	GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
NA	NOT AVAILABLE
*	ANOMALOUS DATA (NOT USED IN CONTOURING)
3545.00 -	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
→	CONTOUR INTERVAL = 1.0 FT.
→	GROUNDWATER FLOW DIRECTION
x-x	FENCE LINE



NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

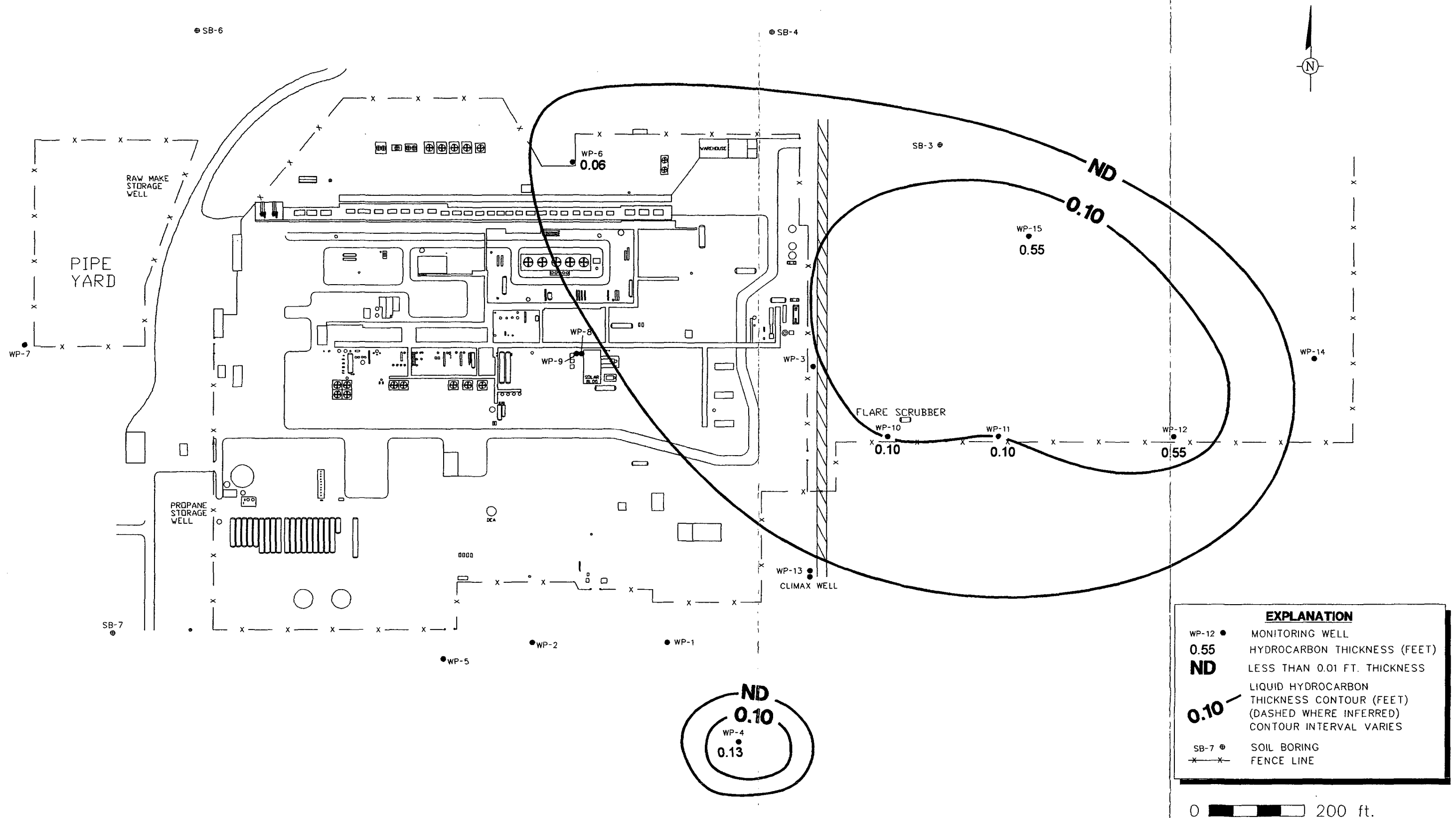
EXPLANATION	
SB-7	SOIL BORING
WP-12	MONITORING WELL
3,543.59	GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
NA	NOT AVAILABLE
*	ANOMALOUS DATA (NOT USED IN CONTOURING)
3,545.00 - - -	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL = 1.0 FT.
→	GROUNDWATER FLOW DIRECTION
-X-X-	FENCE LINE





EXPLANATION	
WP-12 •	MONITORING WELL
0.10	HYDROCARBON THICKNESS (FEET)
ND	LESS THAN 0.01 FT. THICKNESS
0.10—	LIQUID HYDROCARBON THICKNESS CONTOUR (FEET) (DASHED WHERE INFERRED) CONTOUR INTERVAL VARIES
SB-7 •	SOIL BORING
—X—X—	FENCE LINE

0 200 ft.



EXPLANATION

WP-12 ● MONITORING WELL
0.55 HYDROCARBON THICKNESS (FEET)
ND LESS THAN 0.01 FT. THICKNESS
0.10 — LIQUID HYDROCARBON
THICKNESS CONTOUR (FEET)
(DASHED WHERE INFERRED)
CONTOUR INTERVAL VARIES
SB-7 ⊕ SOIL BORING
—X—X— FENCE LINE

0 200 ft.

ARCADIS GERAGHTY & MILLER



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APPROXIMATE EXTENT OF LIQUID HYDROCARBONS JANUARY 18, 2001

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0006

FIGURE NUMBER

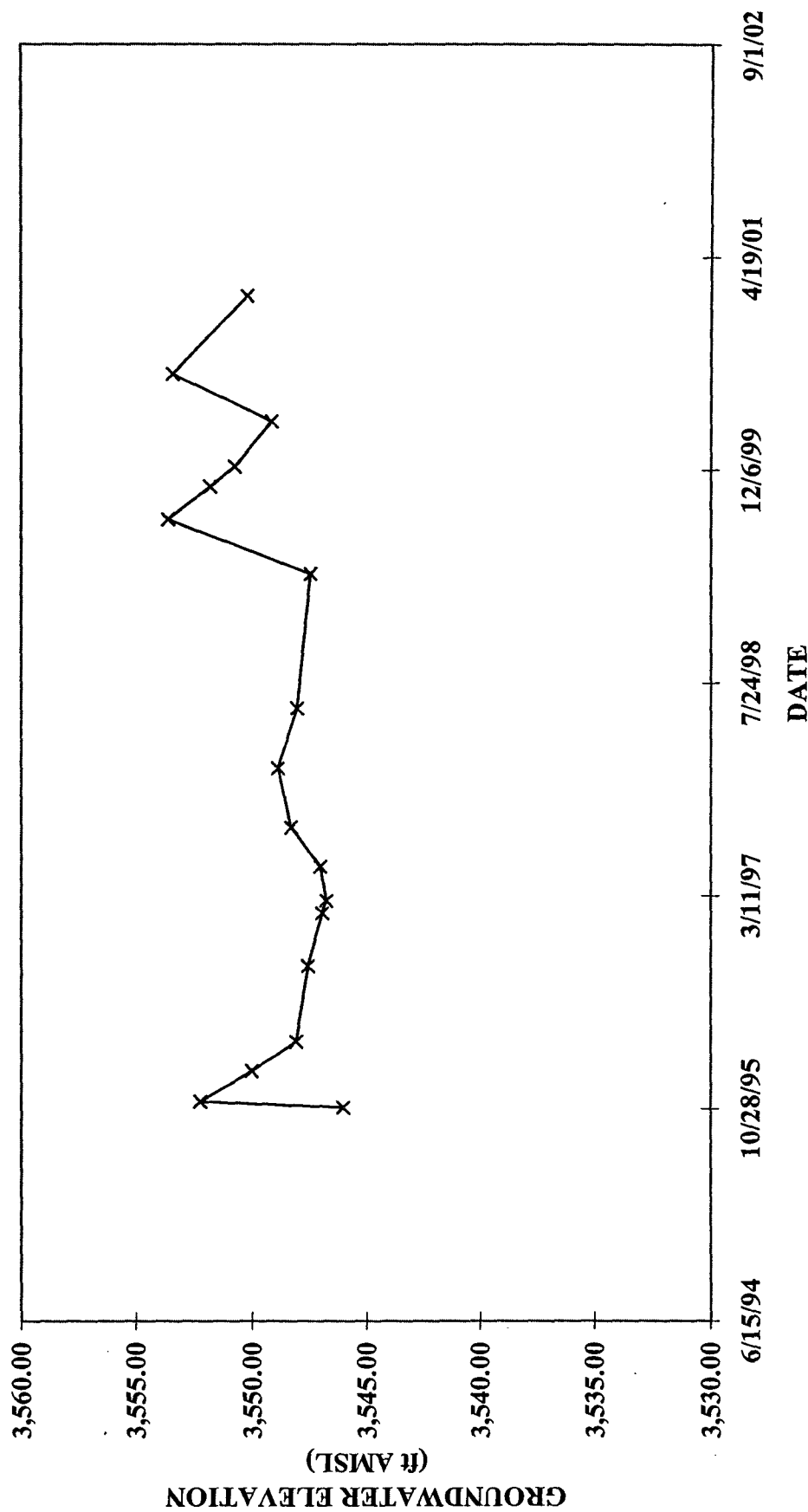
7

APPENDIX A



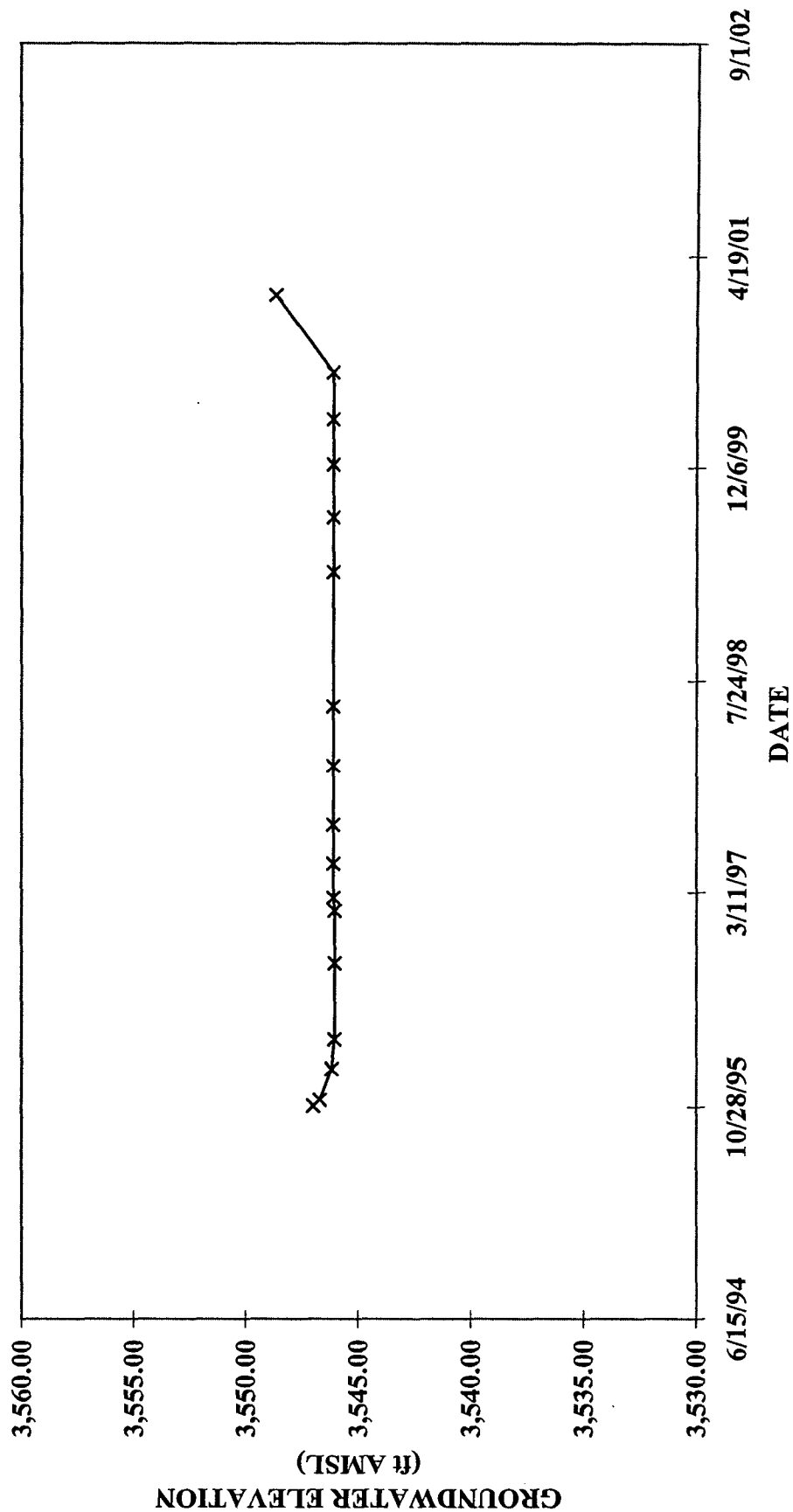
APPENDIX A

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



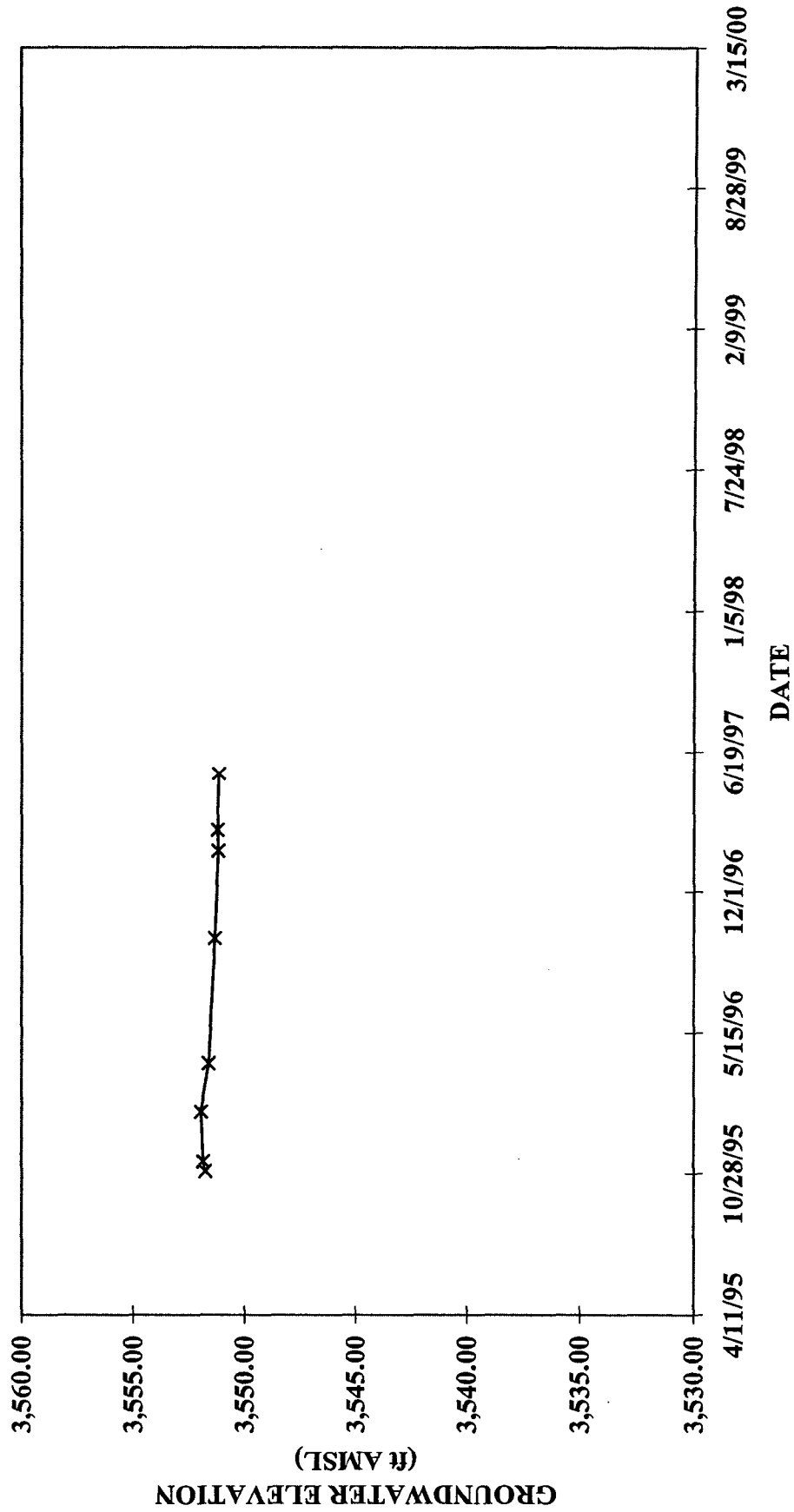
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-2



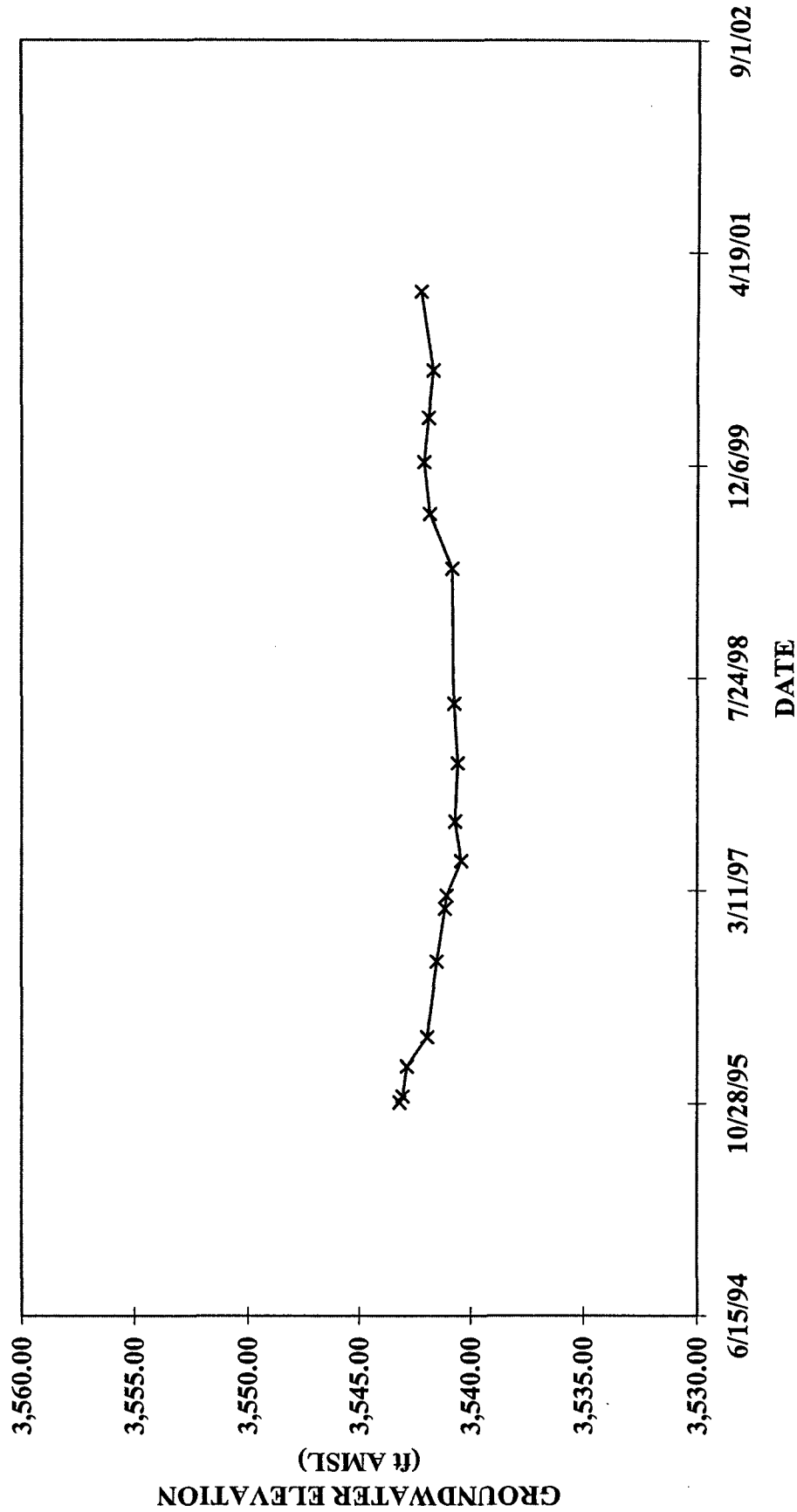
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-3



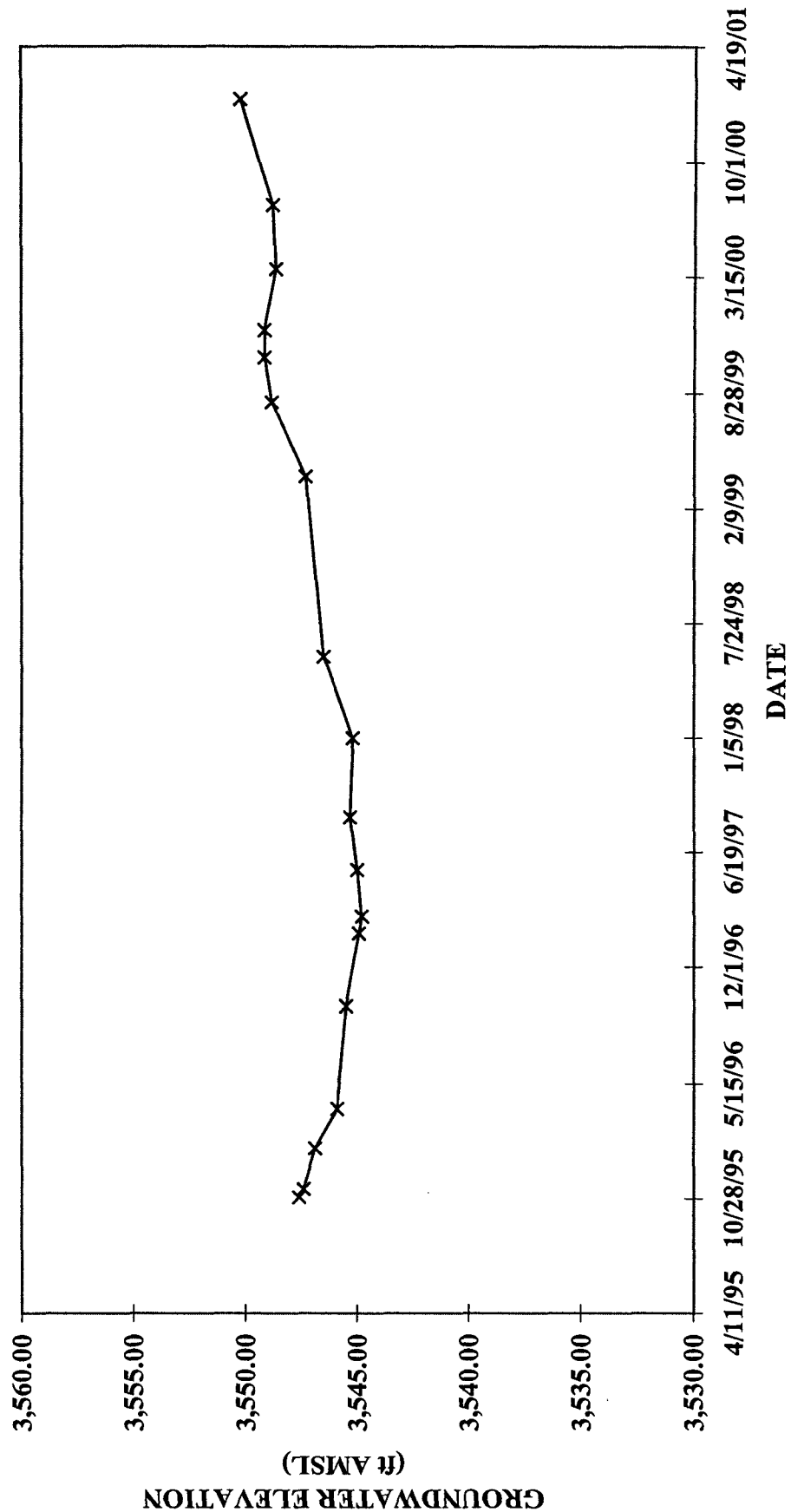
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-4



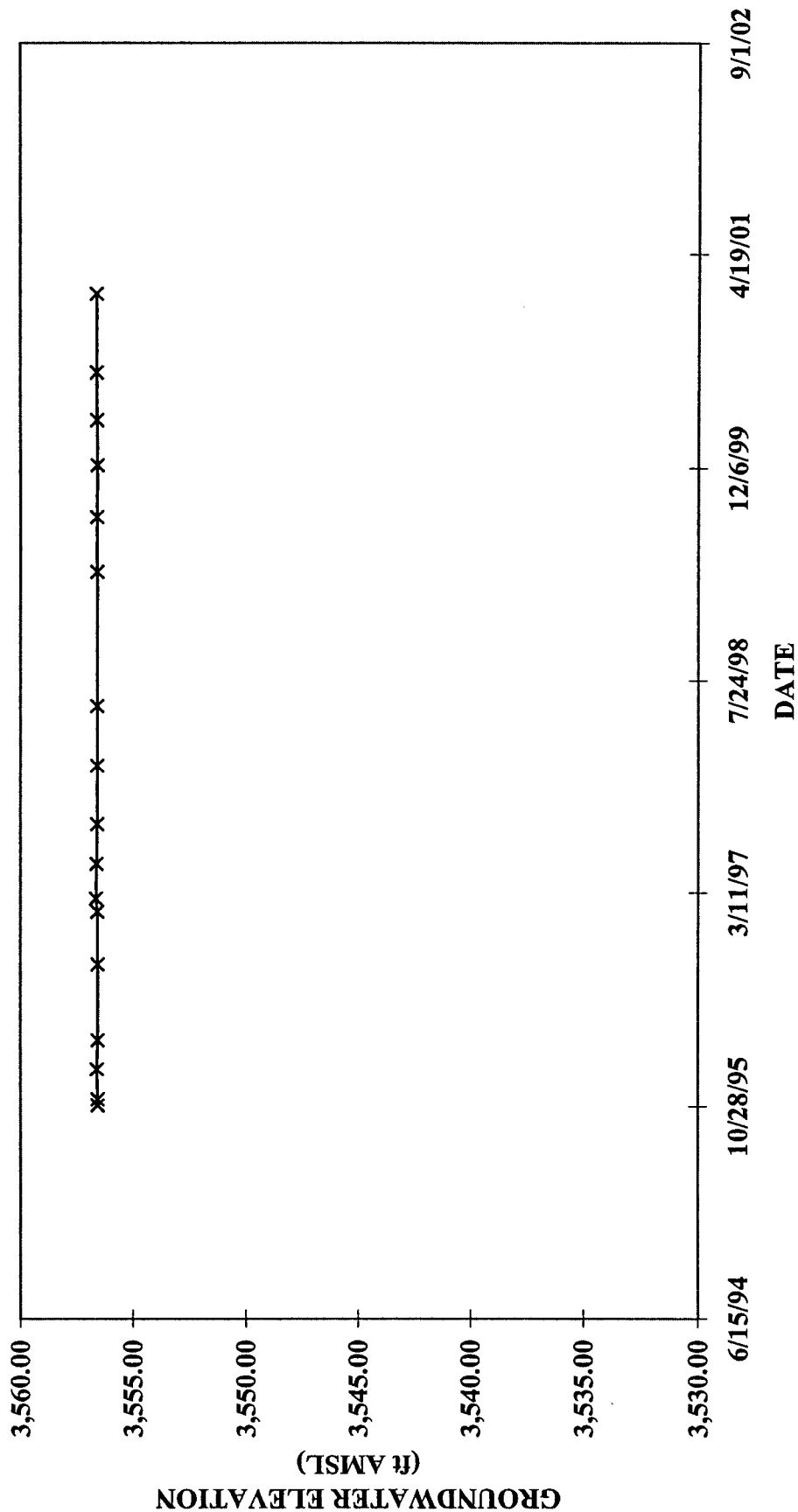
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



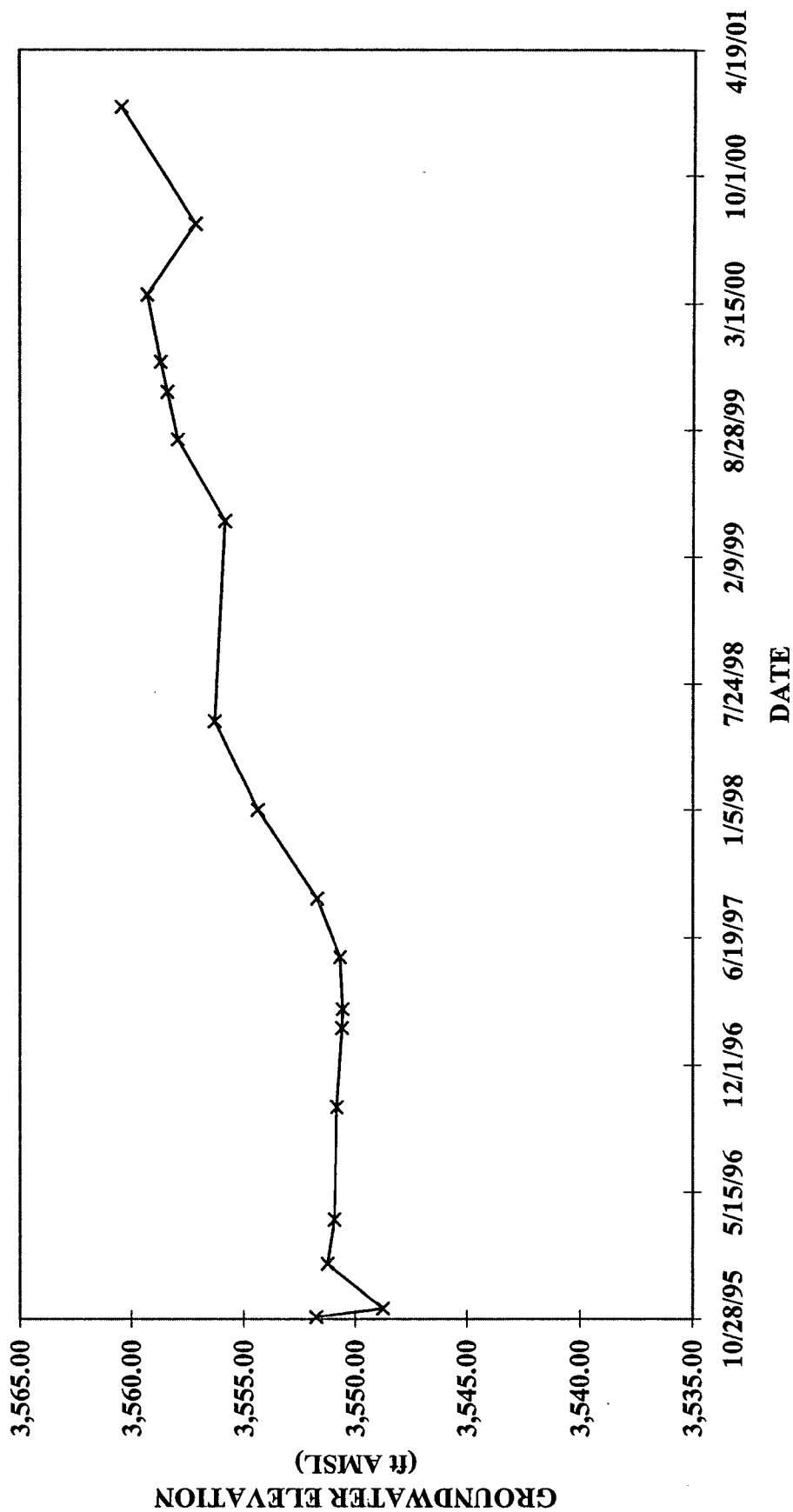
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-6



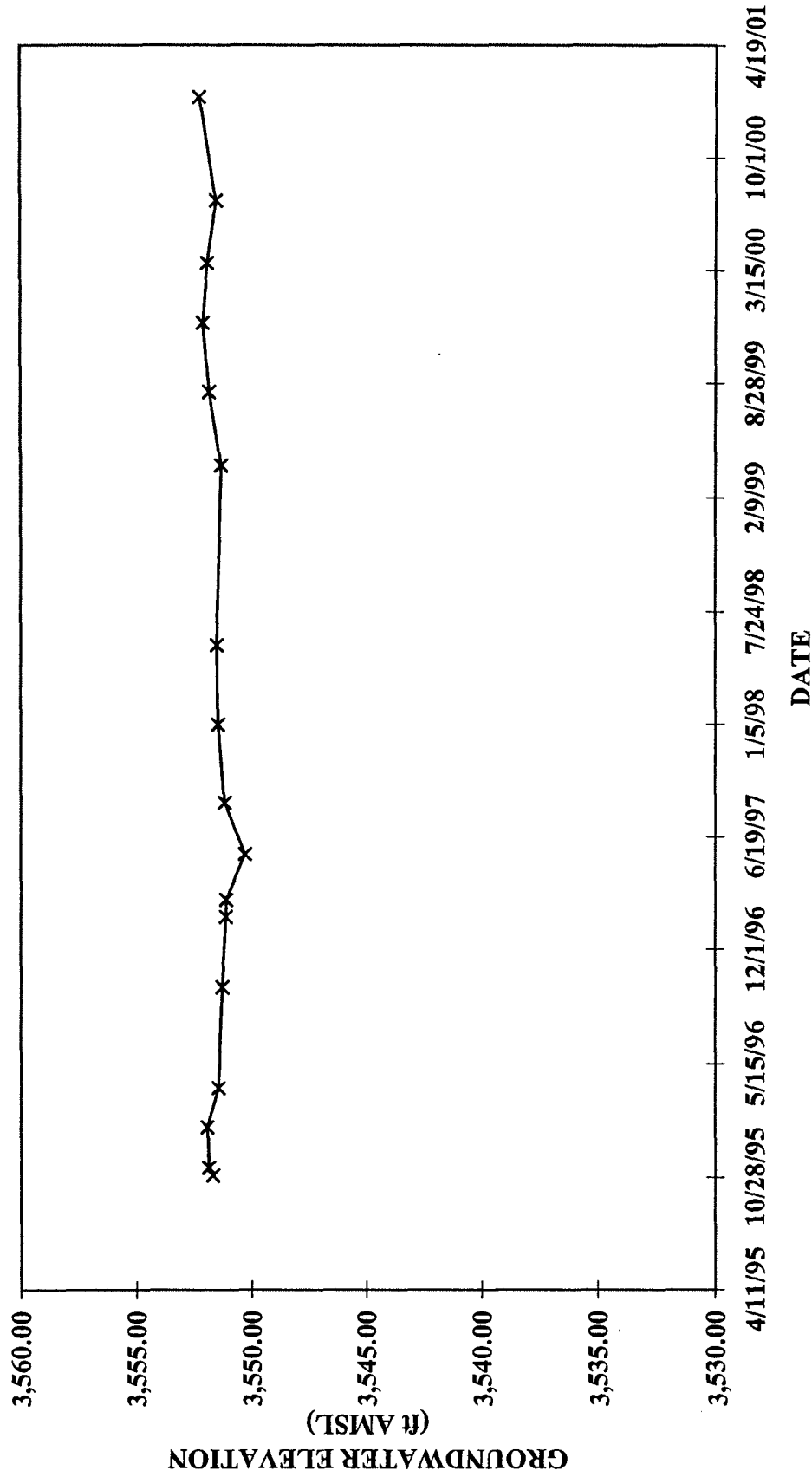
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7



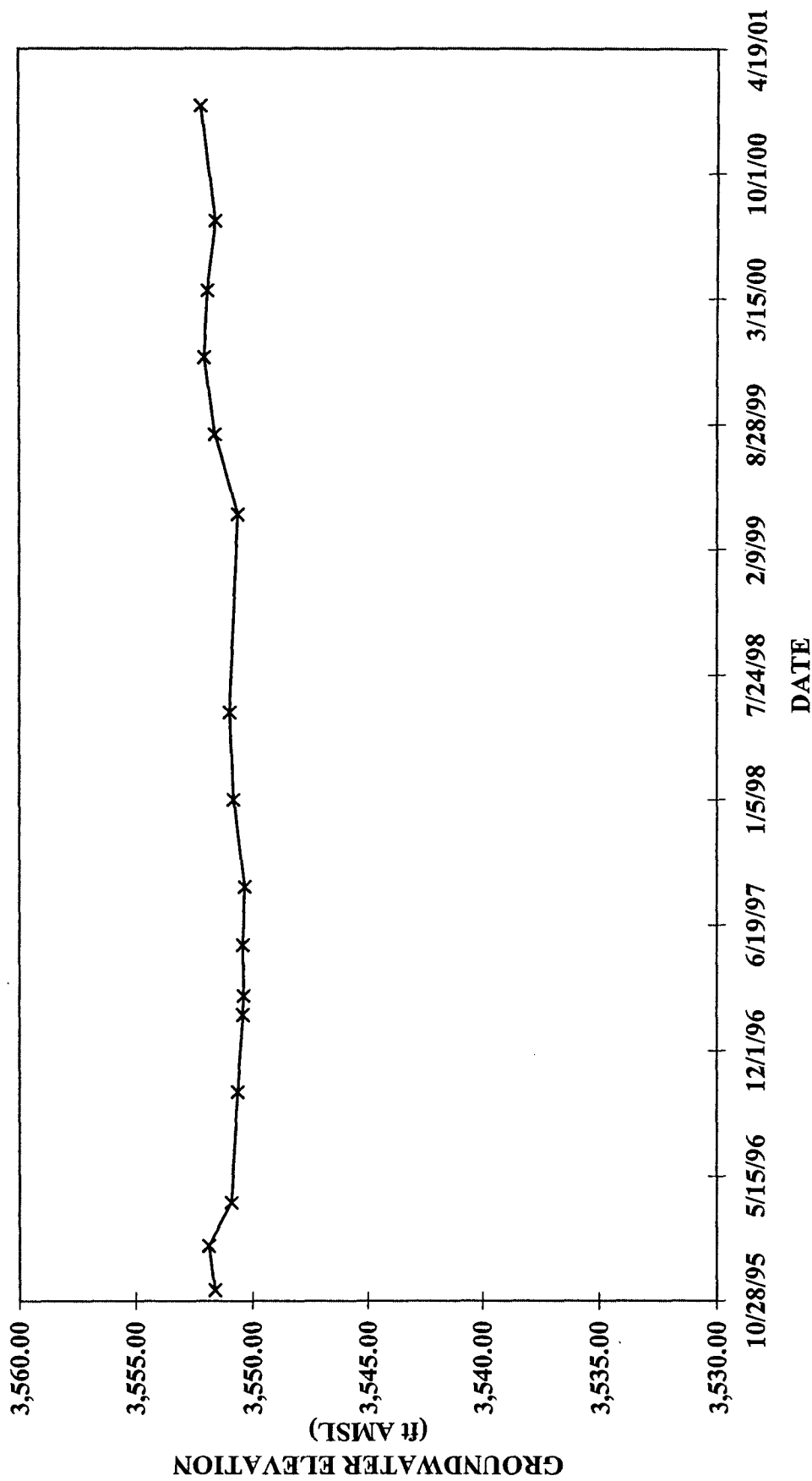
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-10



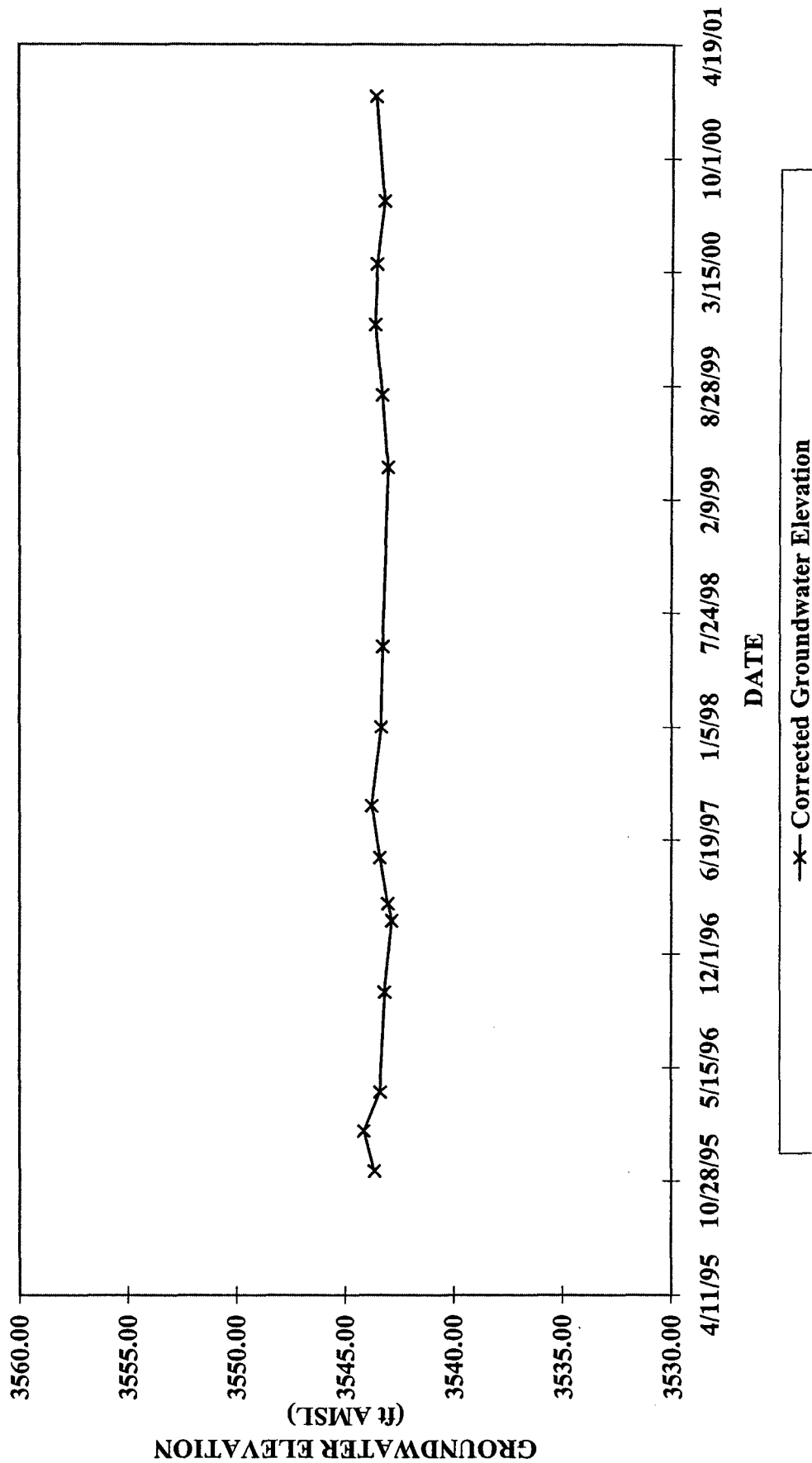
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GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-11

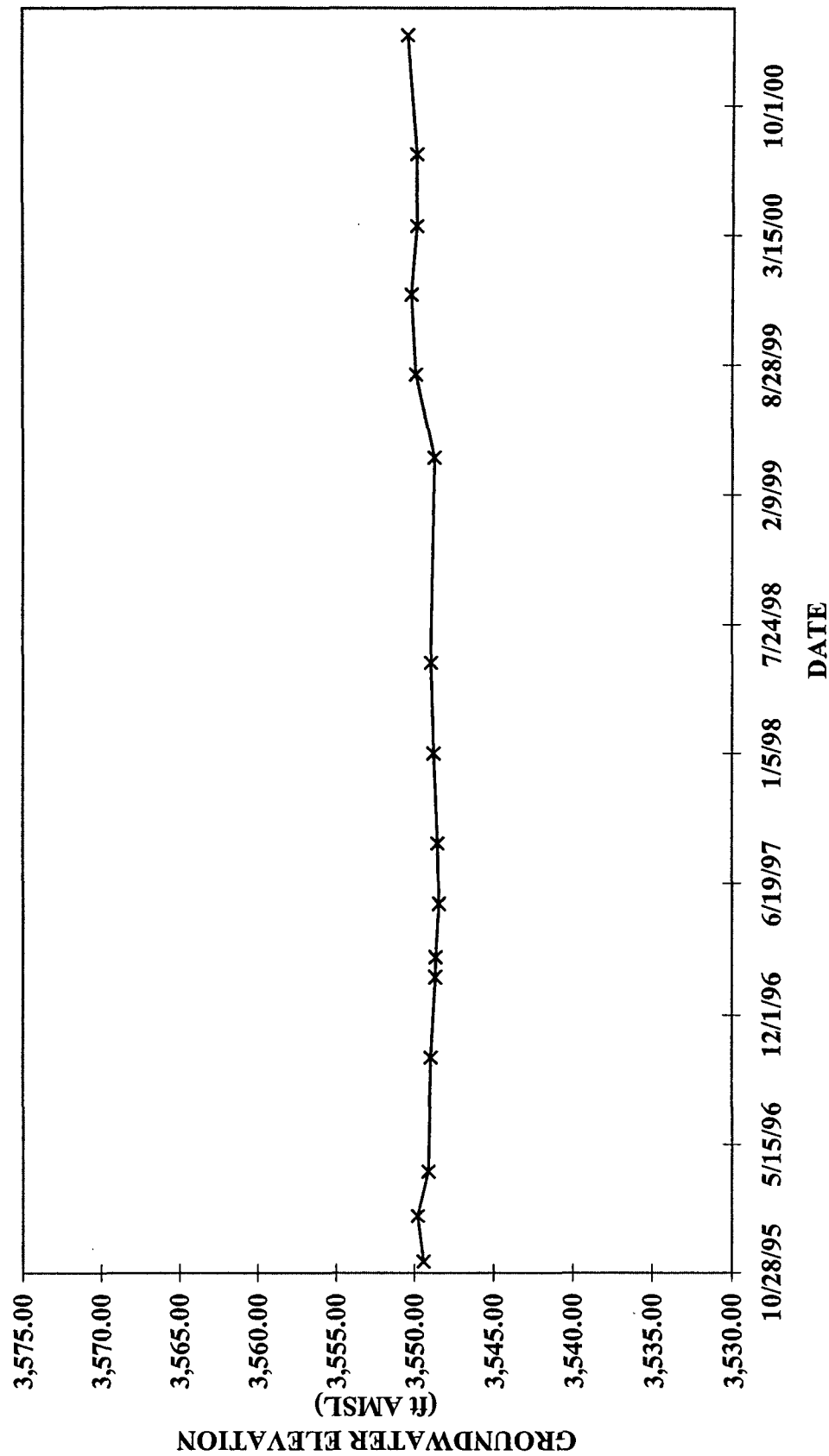


—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-12

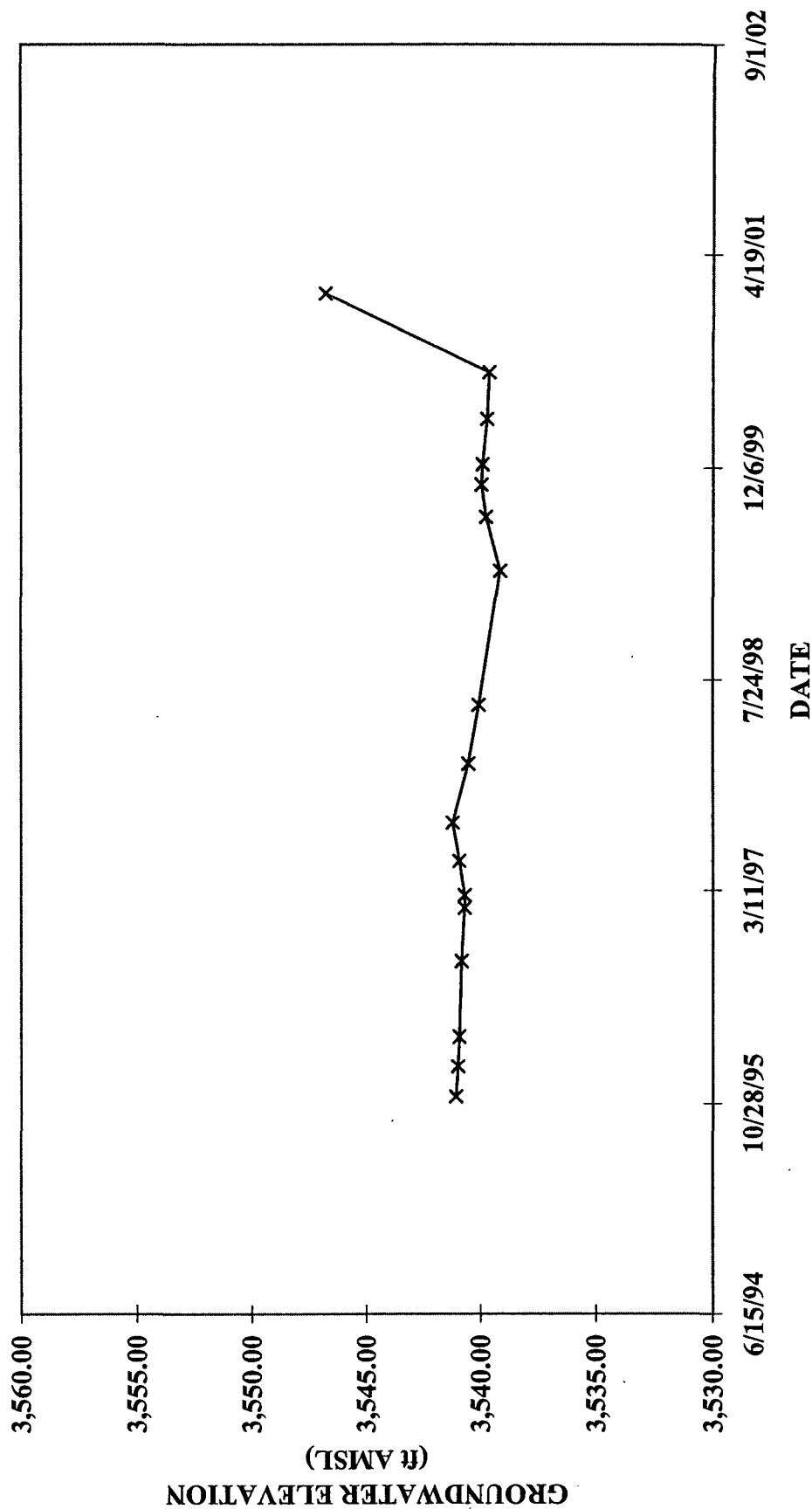


GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-13



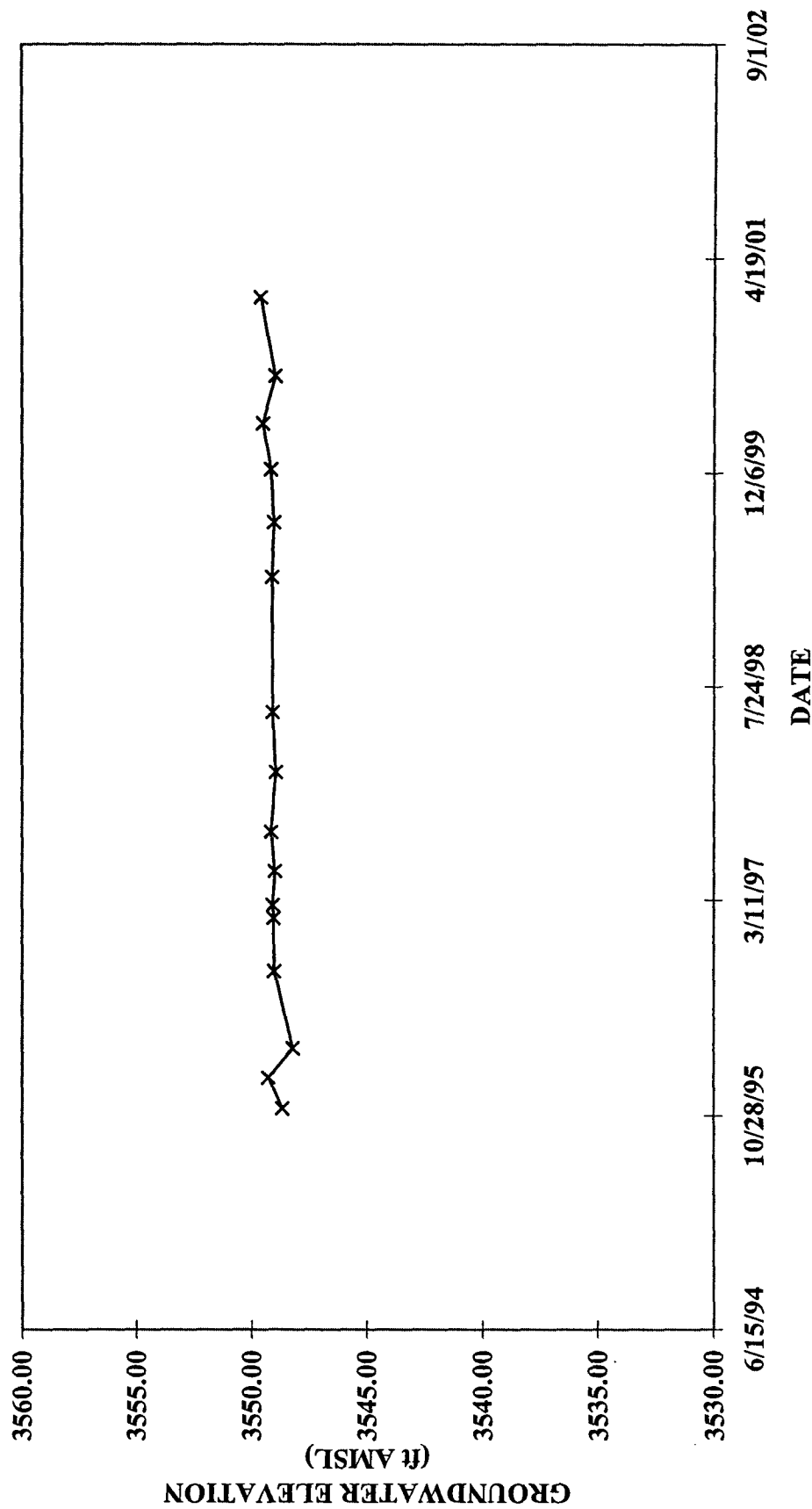
—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



—*— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-15



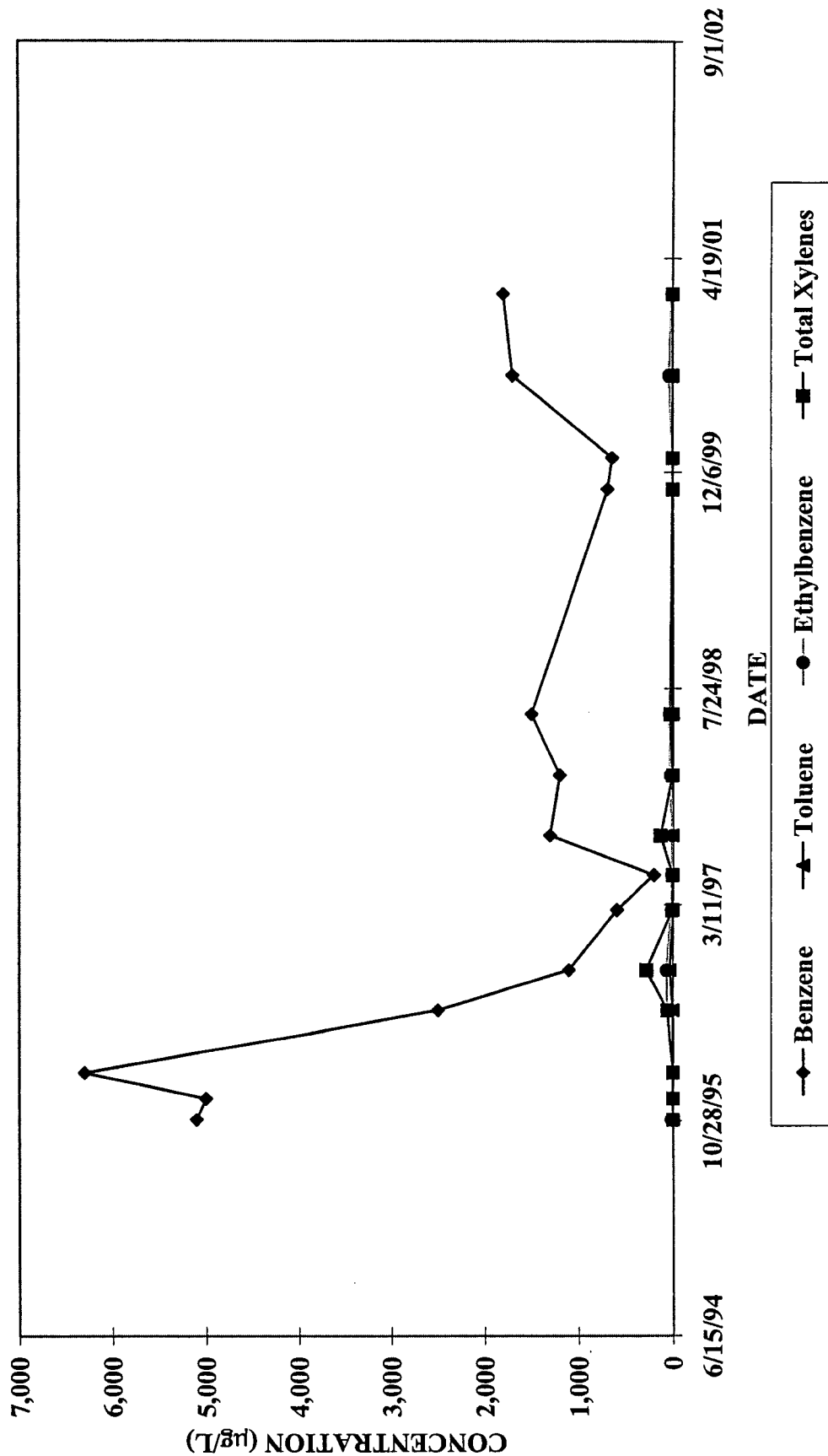
—x— Corrected Groundwater Elevation

APPENDIX B

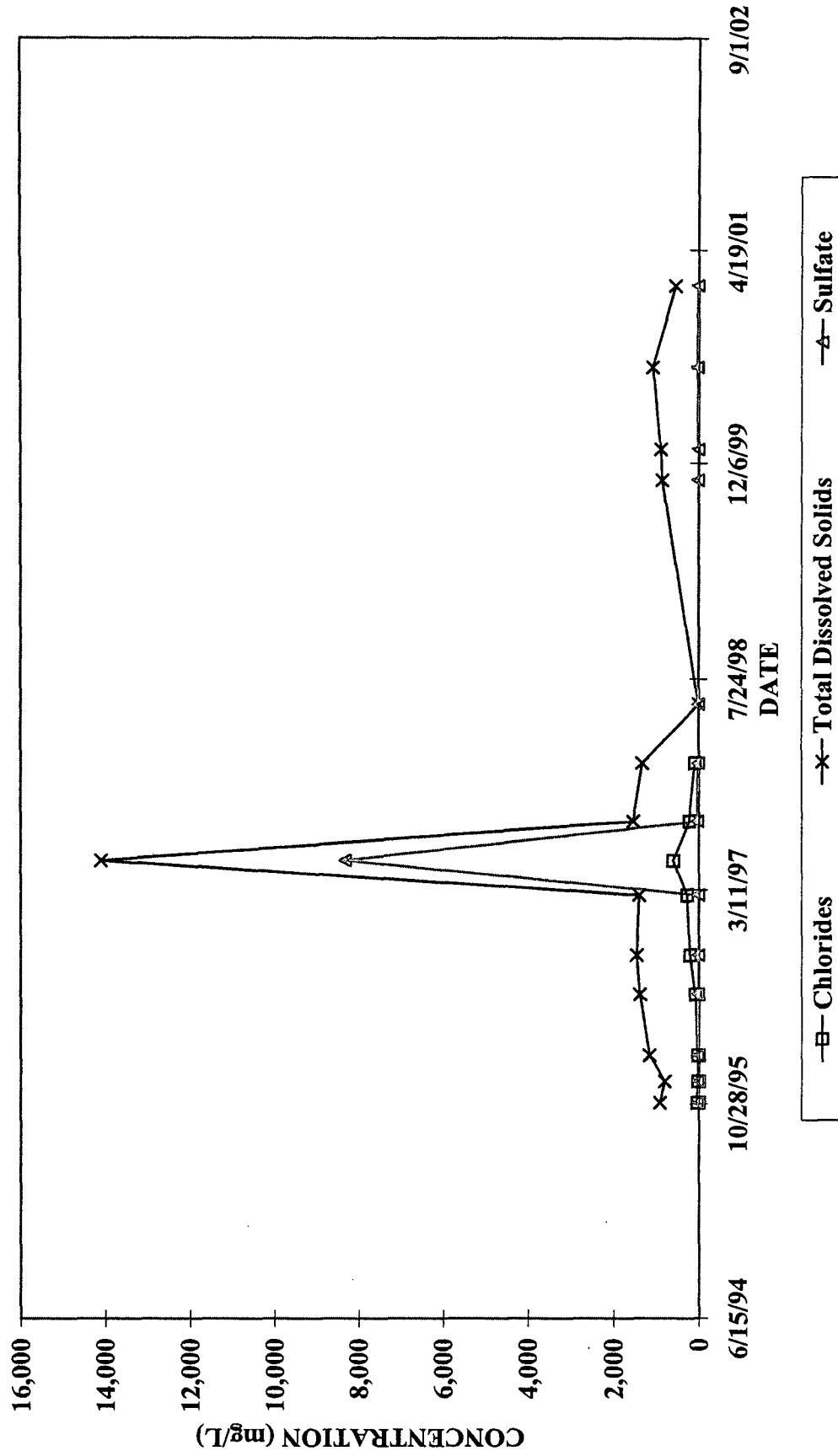


APPENDIX B

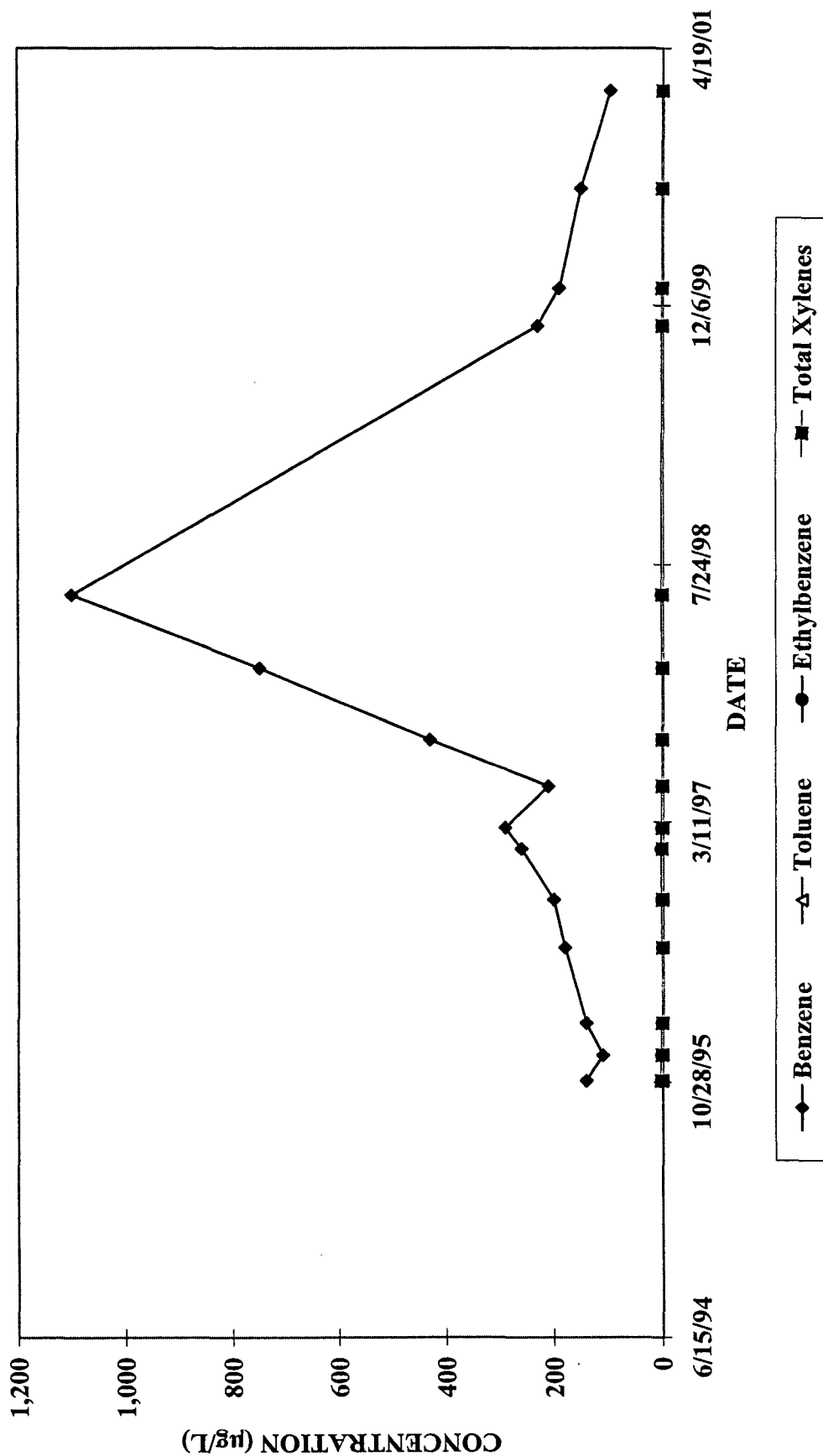
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



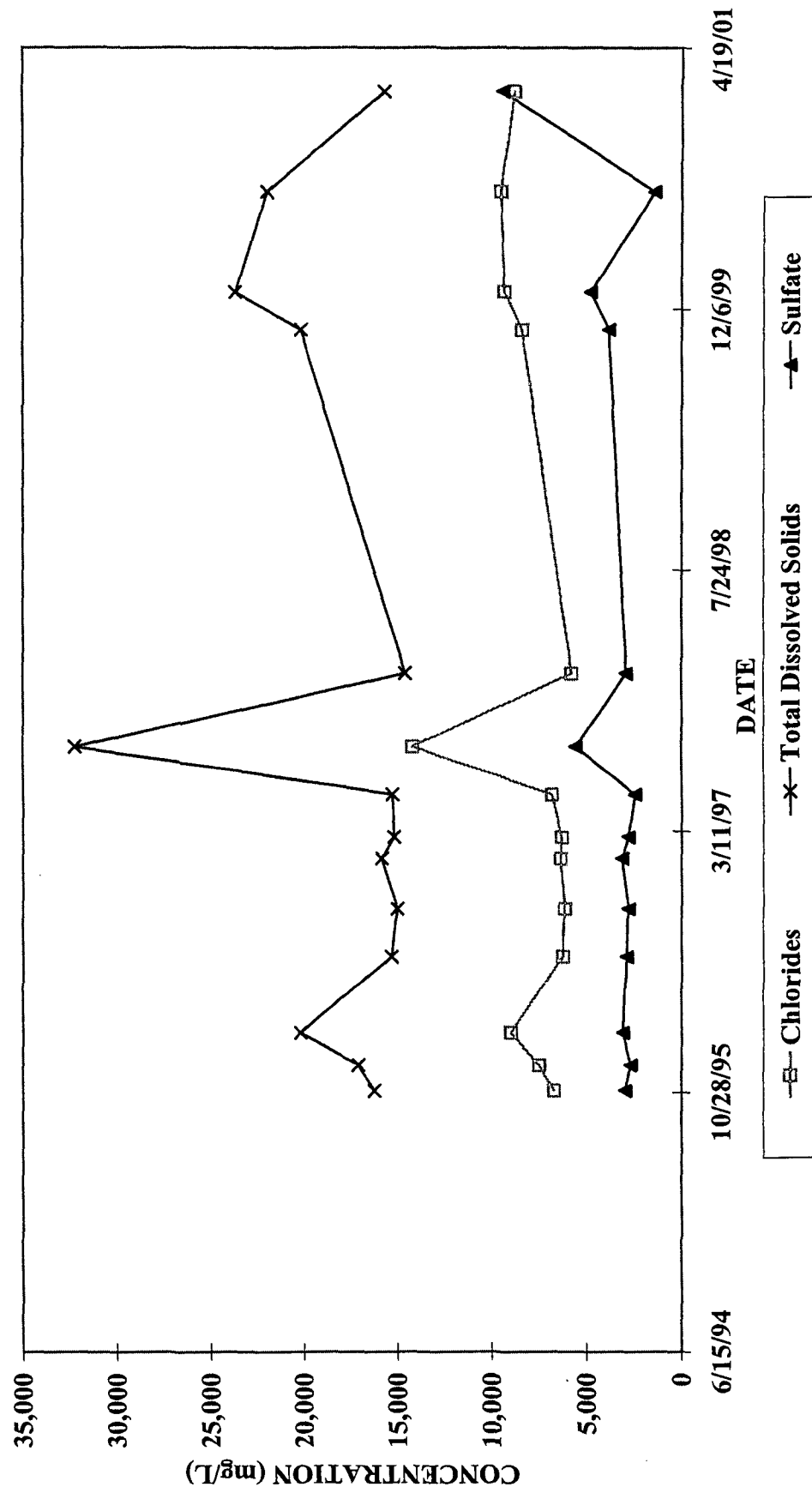
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



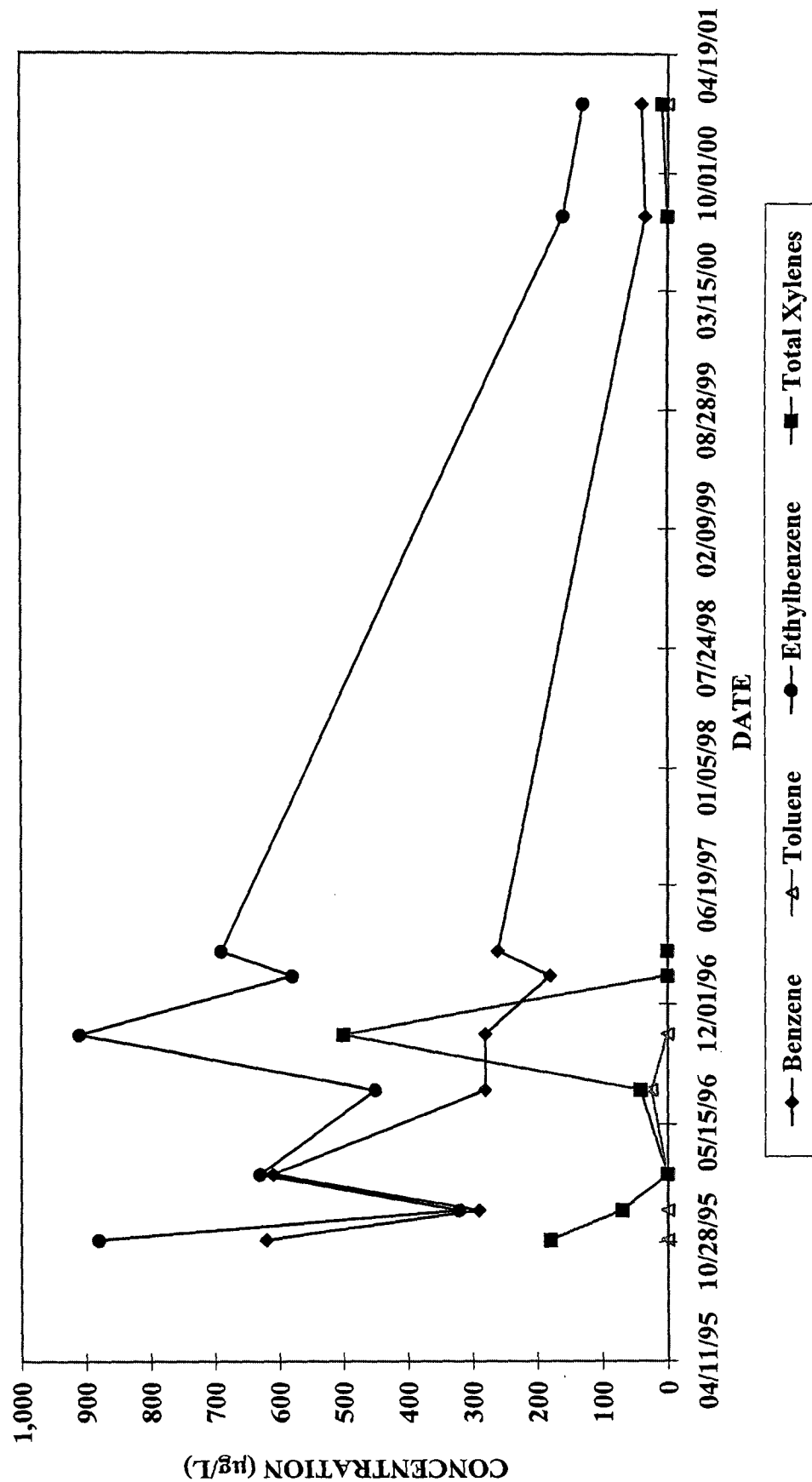
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



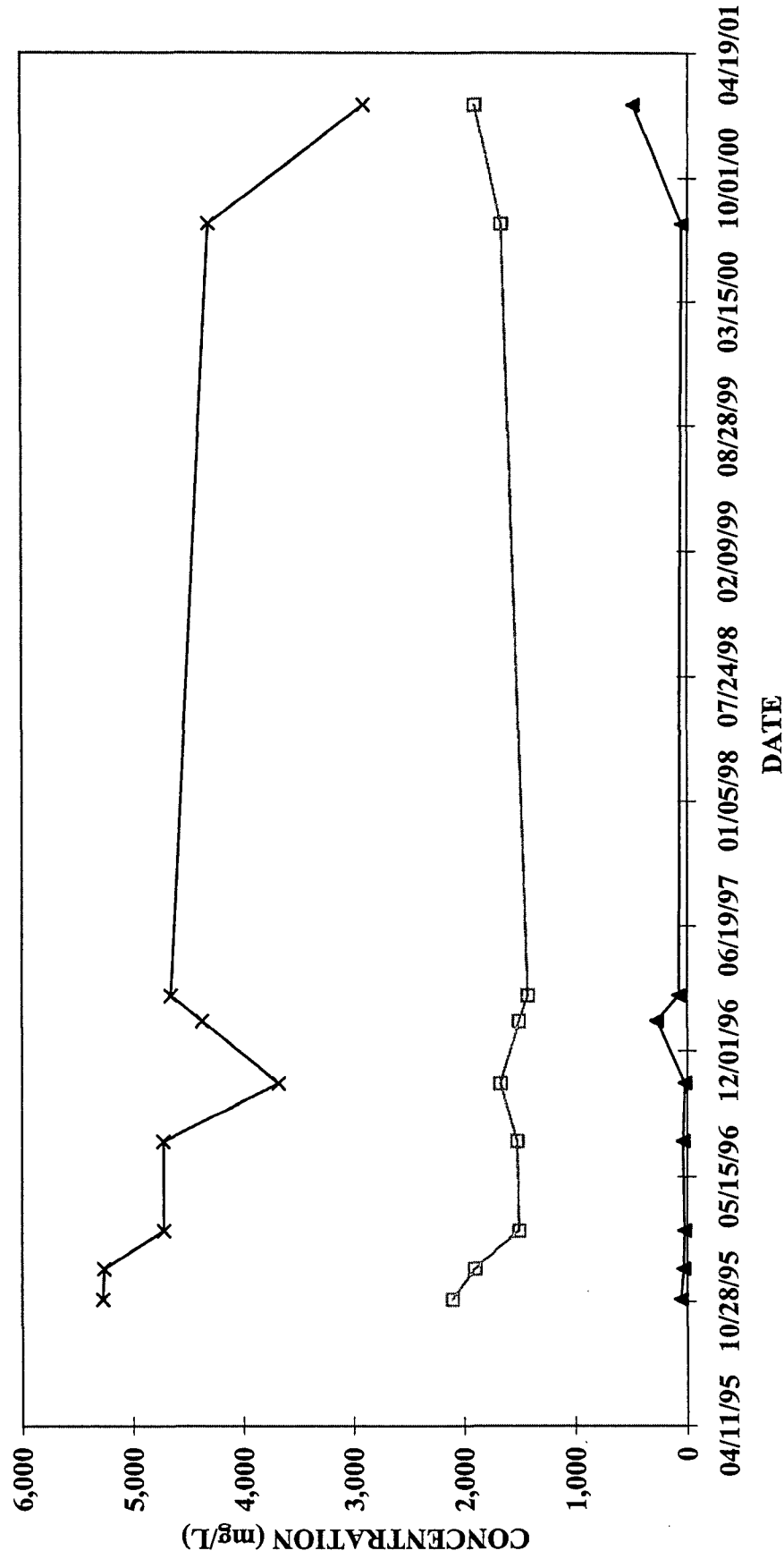
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



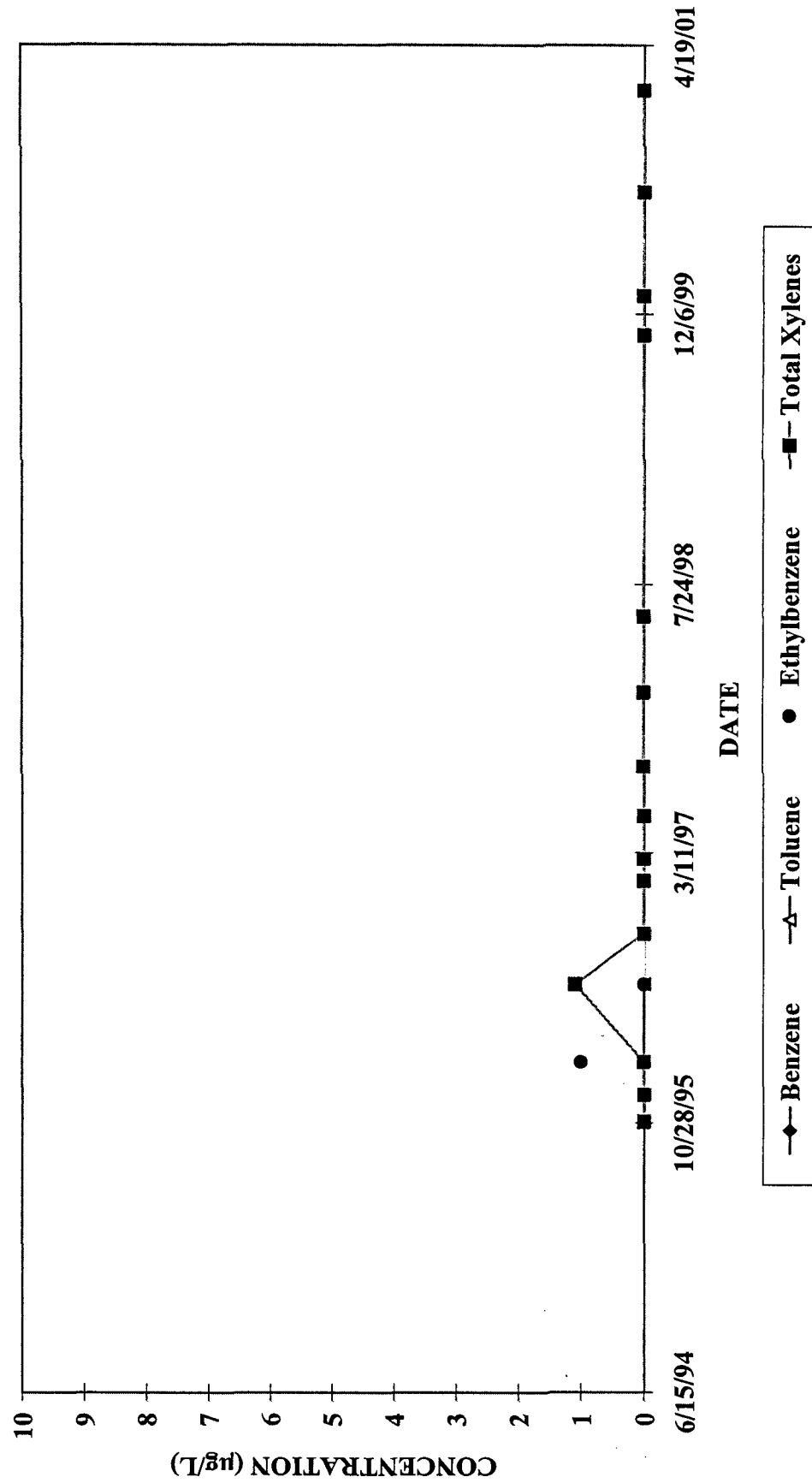
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-6



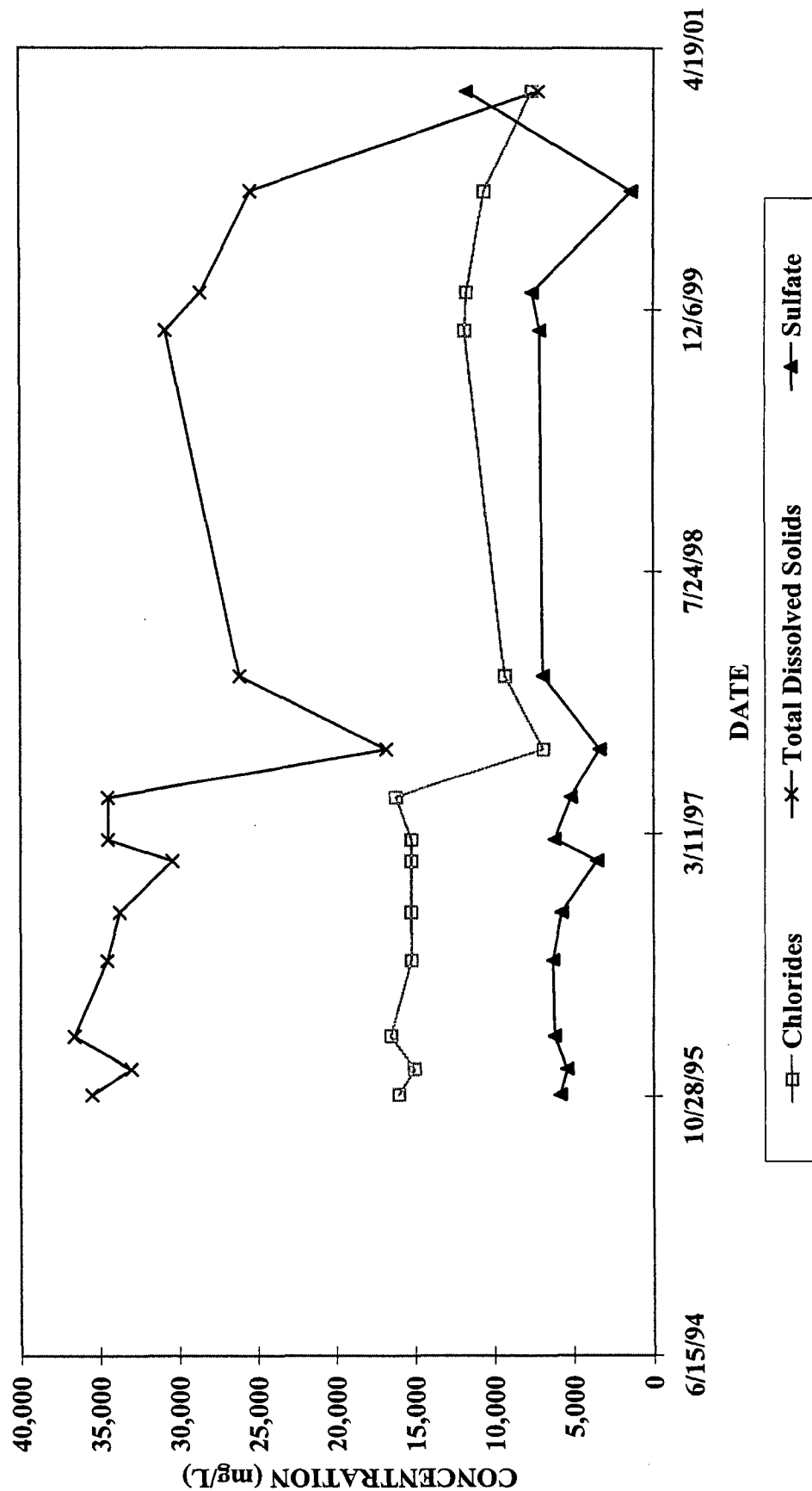
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-6



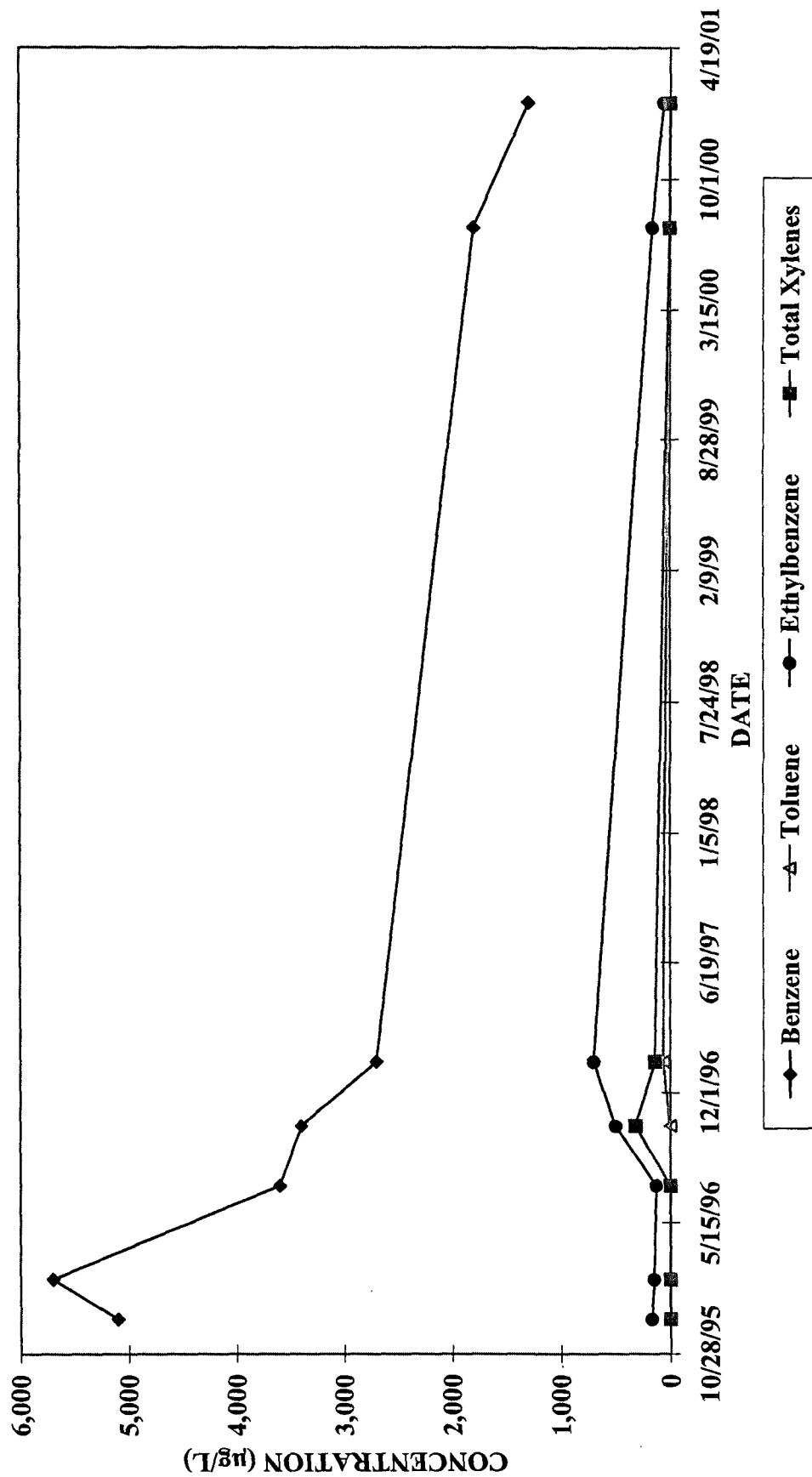
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7



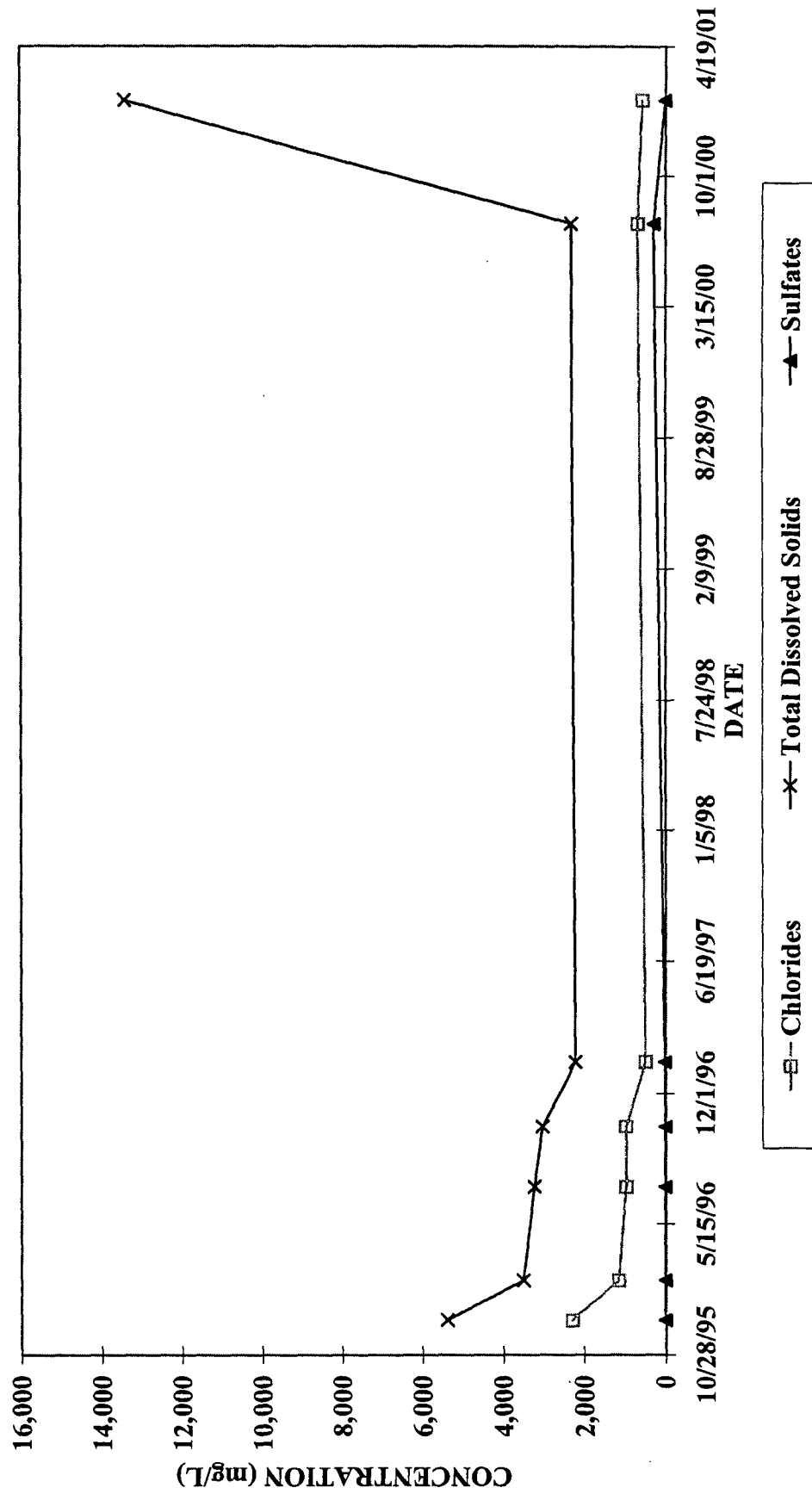
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7



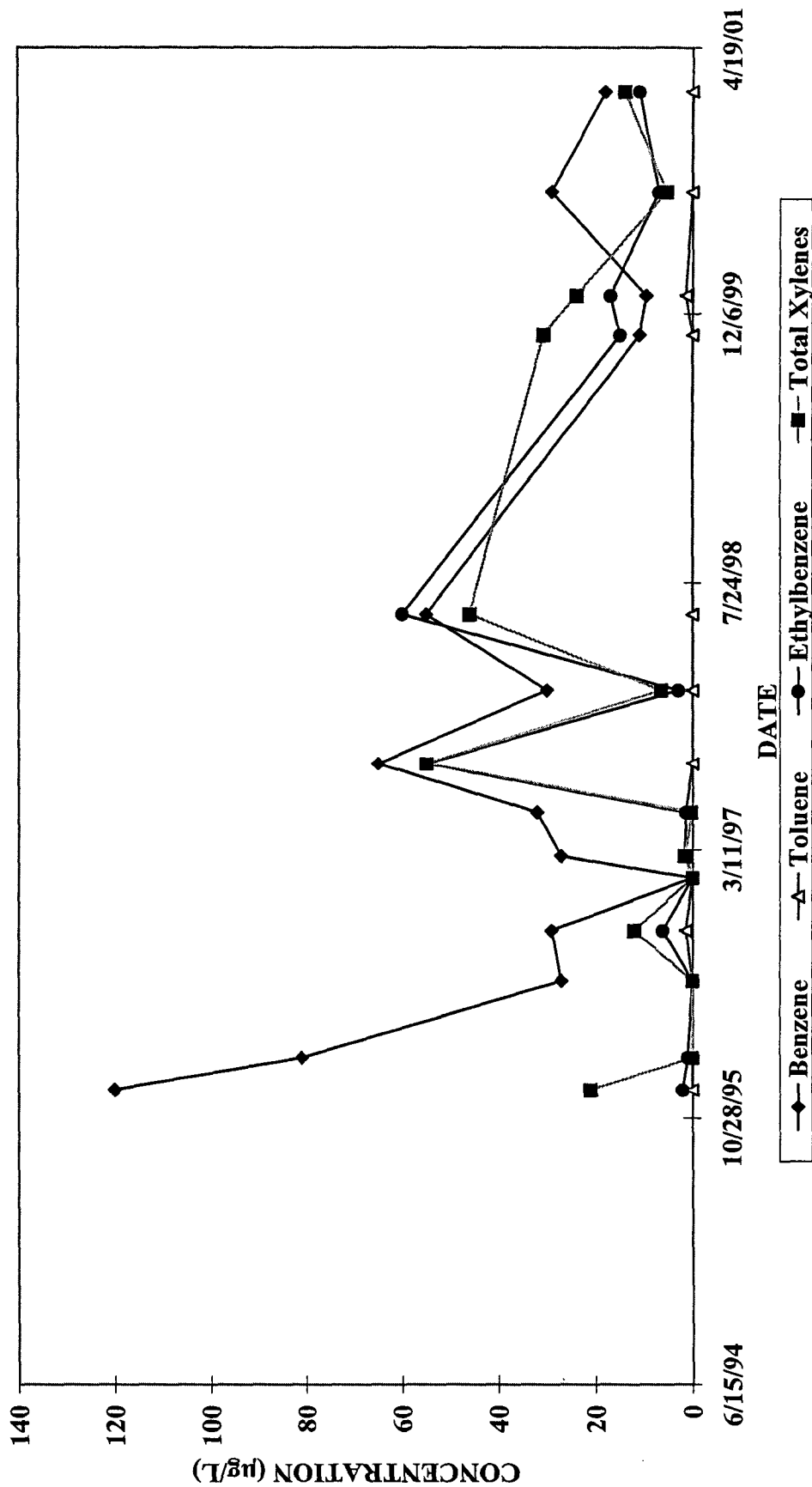
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-13



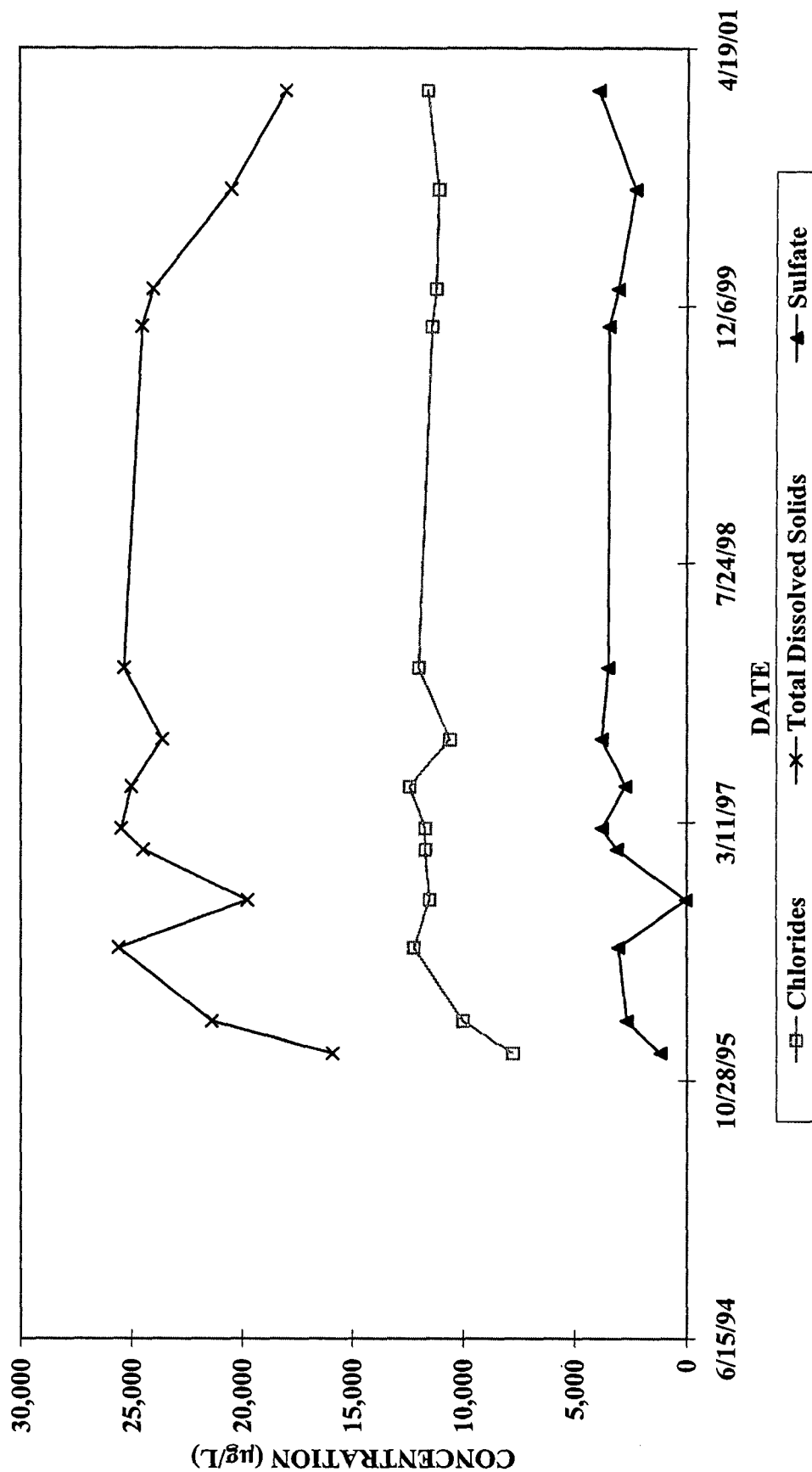
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-13



ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



APPENDIX C

APPENDIX C



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

01010773

Report To:

ARCADIS Geraghty & Miller
Tim Brandon
5100 E. Skelly Drive, Suite 1000

Tulsa

OK

74135-

ph: (918) 664-9900

fax: (918) 664-9925

Project Name:

Monument, NM 88265

Site:

Monument, NM 88265

Site Address:

PO Number:

State:

New Mexico

State Cert. No.:

Date Reported:

2/14/01

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ARCADIS Geraghty & Miller

This Report Contains A Total Of 45 Pages

Excluding This Page

And

Chain Of Custody

2/14/01

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Case Narrative for:
Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:
01010773

Report To: ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925	Project Name: Monument, NM 88265 Site: Monument, NM 88265 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 2/14/01
---	---

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID "MW-7 A-E" (SPL ID:01010773-06) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The Matrix Spike (MS) recovery was outside of the advisable quality control limits for Potassium (Batch ID:10032) due to matrix interference. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "MW-7 A-E" (SPL ID:01010773-06) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Arsenic and Selenium (Batch ID:10032-T) due to matrix interference. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "MW-7 A-E" (SPL ID:01010773-06) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) recoveries were outside of the advisable quality control limits for Sodium (Batch ID:10032B) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West
West, Sonia
Senior Project Manager

2/14/01

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

01010773

Report To: ARCADIS Geraghty & Miller
Tim Brandon
5100 E. Skelly Drive, Suite 1000

Tulsa

OK

74135-

ph: (918) 664-9900

fax: (918) 664-9925

Fax To:

Dynegy Midstream Services Limited Partnership

Oscar DeLeon

fax : (505) 393-4780

ARCADIS Geraghty & Miller

Tim Brandon

fax : (918) 664-9925

Project Name: Monument, NM 88265

Site: Monument, NM 88265

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 2/14/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1 A-E	01010773-01	Water	1/26/01 1:00:00 PM	1/27/01 10:00:00 AM	091961	☐
MW-5 A-E	01010773-02	Water	1/26/01 9:45:00 AM	1/27/01 10:00:00 AM	091961	☐
MW-13 A-E	01010773-03	Water	1/26/01 9:30:00 AM	1/27/01 10:00:00 AM	091962	☐
MW-14 A-E	01010773-04	Water	1/26/01 9:00:00 AM	1/27/01 10:00:00 AM	091962	☐
MW-6 A-E	01010773-05	Water	1/26/01 8:30:00 AM	1/27/01 10:00:00 AM	091963	☐
MW-7 A-E	01010773-06	Water	1/26/01 8:00:00 AM	1/27/01 10:00:00 AM	091963	☐

Sonia West

West, Sonia

Senior Project Manager

2/14/01

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 680-0901

Client Sample ID MW-1 A-E

Collected: 1/26/01 1:00:00

SPL Sample ID: 01010773-01

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	758	2	1		01/30/01 11:30	SN	551625
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551647
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	22.4	1	1		02/02/01 10:30	CV	554615
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/30/01 8:23	DQ	548020

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.0361	0.005	1		02/12/01 22:36	NS 564811
Lead	ND	0.005	1		02/09/01 3:23	NS 562265
Selenium	ND	0.005	1		02/09/01 3:23	NS 562265
Barium	4.23	0.005	1		02/07/01 1:51	EG 559617
Cadmium	ND	0.005	1		02/07/01 1:51	EG 559617
Calcium	98	0.1	1		02/07/01 1:51	EG 559617
Chromium	ND	0.01	1		02/07/01 1:51	EG 559617
Iron	4.53	0.02	1		02/07/01 1:51	EG 559617
Magnesium	57.2	0.1	1		02/07/01 1:51	EG 559617
Potassium	5.6	2	1		02/07/01 1:51	EG 559617
Silver	ND	0.01	1		02/07/01 1:51	EG 559617
Sodium	157	0.5	1		02/07/01 1:51	EG 559617

Prep Method	Prep Date	Prep Initials
SW3010A	02/12/2001 11:00	MW
SW3010A	01/31/2001 20:00	R_T

PH			MCL	E150.1	Units: pH Units	
pH	6.8	0.10	1		01/27/01 13:30	EC 549710
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L	
Benzene	1800	5	5		02/01/01 21:53	D_R 553407
Ethylbenzene	5.9	5	5		02/01/01 21:53	D_R 553407
Toluene	ND	5	5		02/01/01 21:53	D_R 553407
m,p-Xylene	ND	5	5		02/01/01 21:53	D_R 553407
o-Xylene	ND	5	5		02/01/01 21:53	D_R 553407
Xylenes, Total	ND	5	5		02/01/01 21:53	D_R 553407
Surr: 1,4-Difluorobenzene	94.5 %	72-137	5		02/01/01 21:53	D_R 553407
Surr: 4-Bromofluorobenzene	103 %	48-156	5		02/01/01 21:53	D_R 553407

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-1 A-E

Collected: 1/26/01 1:00:00

SPL Sample ID: 01010773-01

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C				MCL	120.1	Units: Mohms/cm	
Resistance	0.775	0.00100	1		02/05/01 12:30	CC	555438
SPECIFIC GRAVITY @ 25 C				MCL	ASTM D-1429	Units: Specific Gravity @	
Specific Gravity	0.993	0	1		01/27/01 13:15	EC	549743
SULFATE, TOTAL				MCL	E375.4	Units: mg/L	
Sulfate	3.5	1	1		01/30/01 13:00	SN	552133
TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	540	100	10		01/30/01 14:40	EC	555350

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

01010773 Page 4

2/14/01 10:05:12 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-5 A-E

Collected: 1/26/01 9:45:00

SPL Sample ID: 01010773-02

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	669	2	1		01/30/01 11:30	SN	551627
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551649
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	8790	100	100		02/02/01 10:30	CV	554617
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/30/01 8:23	DQ	548021

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.0071	0.005	1		02/12/01 23:08	NS 564818
Lead	ND	0.005	1		02/09/01 3:28	NS 562266
Selenium	ND	0.005	1		02/09/01 3:28	NS 562266
Arsenic	0.0071	0.005	1		02/12/01 23:08	NS 564818
Lead	ND	0.005	1		02/09/01 3:28	NS 562266
Selenium	ND	0.005	1		02/09/01 3:28	NS 562266
Barium	0.0219	0.005	1		02/07/01 1:56	EG 559618
Cadmium	ND	0.005	1		02/07/01 1:56	EG 559618
Calcium	424	0.1	1		02/07/01 1:56	EG 559618
Chromium	ND	0.01	1		02/07/01 1:56	EG 559618
Iron	0.11	0.02	1		02/07/01 1:56	EG 559618
Magnesium	196	0.1	1		02/07/01 1:56	EG 559618
Potassium	75	2	1		02/07/01 1:56	EG 559618
Silver	ND	0.01	1		02/07/01 1:56	EG 559618
Sodium	7310	10	20		02/07/01 23:04	EG 560829

PH			MCL	E150.1	Units: pH Units	
pH	7	0.10	1		01/27/01 13:30	EC 549713

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L	
Benzene	96	1	1		02/01/01 22:19	D_R 553408
Ethylbenzene	ND	1	1		02/01/01 22:19	D_R 553408
Toluene	ND	1	1		02/01/01 22:19	D_R 553408
m,p-Xylene	ND	1	1		02/01/01 22:19	D_R 553408
o-Xylene	ND	1	1		02/01/01 22:19	D_R 553408
Xylenes, Total	ND	1	1		02/01/01 22:19	D_R 553408
Surr: 1,4-Difluorobenzene	111	% 72-137	1		02/01/01 22:19	D_R 553408
Surr: 4-Bromofluorobenzene	114	% 48-156	1		02/01/01 22:19	D_R 553408

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-5 A-E

Collected: 1/26/01 9:45:00 SPL Sample ID: 01010773-02

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C				MCL	120.1	Units: Mohms/cm	
Resistance	30.8	0.00100		1	02/05/01 12:30	CC	555441
SPECIFIC GRAVITY @ 25 C				MCL	ASTM D-1429	Units: Specific Gravity @	
Specific Gravity	1.027	0		1	01/27/01 13:15	EC	549748
SULFATE, TOTAL				MCL	E375.4	Units: mg/L	
Sulfate	✓ 9400	1000		1000	01/30/01 13:00	SN	552137
TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	✓ 15700	200		20	01/30/01 14:40	EC	555351

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-13 A-E

Collected: 1/26/01 9:30:00

SPL Sample ID: 01010773-03

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	1250	2	1		01/30/01 11:30	SN	551628
CARBONATE, AS CaCO3				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551650
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	569	10	10		02/02/01 10:30	CV	554618
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/30/01 8:23	DQ	548022

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.00586	0.005		1	02/12/01 23:13	NS 564819
Lead	ND	0.005		1	02/09/01 3:50	NS 562269
Selenium	ND	0.005		1	02/09/01 3:50	NS 562269
Barium	1.95	0.005		1	02/07/01 2:00	EG 559619
Cadmium	ND	0.005		1	02/07/01 2:00	EG 559619
Calcium	73.4	0.1		1	02/07/01 2:00	EG 559619
Chromium	ND	0.01		1	02/07/01 2:00	EG 559619
Iron	1.07	0.02		1	02/07/01 2:00	EG 559619
Magnesium	49.1	0.1		1	02/07/01 2:00	EG 559619
Potassium	6.68	2		1	02/07/01 2:00	EG 559619
Silver	ND	0.01		1	02/07/01 2:00	EG 559619
Sodium	822	5		10	02/07/01 23:08	EG 560830

Prep Method	Prep Date	Prep Initials
SW3010A	02/12/2001 11:00	MW
SW3010A	01/31/2001 20:00	R_T

PH			MCL	E150.1	Units: pH Units	
pH	7.1	0.10		1	01/27/01 13:30	EC 549715

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L	
Benzene	1300	5		5	02/05/01 17:47	D_R 556386
Ethylbenzene	57	5		5	02/05/01 17:47	D_R 556386
Toluene	ND	5		5	02/05/01 17:47	D_R 556386
m,p-Xylene	ND	5		5	02/05/01 17:47	D_R 556386
o-Xylene	ND	5		5	02/05/01 17:47	D_R 556386
Xylenes, Total	ND	5		5	02/05/01 17:47	D_R 556386
Surr: 1,4-Difluorobenzene	117	% 72-137		5	02/05/01 17:47	D_R 556386
Surr: 4-Bromofluorobenzene	111	% 48-156		5	02/05/01 17:47	D_R 556386

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-13 A-E

Collected: 1/26/01 9:30:00

SPL Sample ID: 01010773-03

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C				MCL	120.1	Units: Mohms/cm	
Resistance	0.28	0.00100	1		02/05/01 12:30	CC	555444
SPECIFIC GRAVITY @ 25 C				MCL	ASTM D-1429	Units: Specific Gravity @	
Specific Gravity	1.011	0	1		01/27/01 13:15	EC	549750
SULFATE, TOTAL				MCL	E375.4	Units: mg/L	
Sulfate	3.5	1	1		01/30/01 13:00	SN	552138
TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	✓ 13400	200	20		01/30/01 14:40	EC	555352

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-14 A-E

Collected: 1/26/01 9:00:00

SPL Sample ID: 01010773-04

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	788	2	1		01/30/01 11:30	SN	551629
CARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551651
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	11600	250	250		02/02/01 10:30	CV	554619
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	ND	0.0002	1		01/30/01 8:23	DQ	548025

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	0.0164	0.005	1		02/12/01 23:33	NS	564822
Lead	ND	0.005	1		02/09/01 3:55	NS	562270
Selenium	ND	0.005	1		02/09/01 3:55	NS	562270
Barium	0.251	0.005	1		02/07/01 2:05	EG	559620
Cadmium	ND	0.005	1		02/07/01 2:05	EG	559620
Calcium	679	1	10		02/07/01 23:24	EG	560833
Chromium	ND	0.01	1		02/07/01 2:05	EG	559620
Iron	1.53	0.02	1		02/07/01 2:05	EG	559620
Magnesium	322	0.1	1		02/07/01 2:05	EG	559620
Potassium	77.7	2	1		02/07/01 2:05	EG	559620
Silver	ND	0.01	1		02/07/01 2:05	EG	559620
Sodium	7350	10	20		02/07/01 23:29	EG	560834

Prep Method	Prep Date	Prep Initials
SW3010A	02/12/2001 11:00	MW
SW3010A	01/31/2001 20:00	R_T

PH			MCL	E150.1	Units: pH Units		
pH	6.9	0.10	1		01/27/01 13:30	EC	549716
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	18	5	5		02/07/01 15:43	D_R	559905
Ethylbenzene	11	5	5		02/07/01 15:43	D_R	559905
Toluene	ND	5	5		02/07/01 15:43	D_R	559905
m,p-Xylene	14	5	5		02/07/01 15:43	D_R	559905
o-Xylene	ND	5	5		02/07/01 15:43	D_R	559905
Xylenes, Total	14	5	5		02/07/01 15:43	D_R	559905
Surr: 1,4-Difluorobenzene	102 %	72-137	5		02/07/01 15:43	D_R	559905
Surr: 4-Bromofluorobenzene	153 %	48-156	5		02/07/01 15:43	D_R	559905

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-14 A-E

Collected: 1/26/01 9:00:00

SPL Sample ID: 01010773-04

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	27.1	0.00100	1		02/05/01 12:30	CC	555447
SPECIFIC GRAVITY @ 25 C			MCL	ASTM D-1429	Units: Specific Gravity @		
Specific Gravity	1.025	0	1		01/27/01 13:15	EC	549752
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 3950	500	500		01/30/01 13:00	SN	552139
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 18000	200	20		01/30/01 14:40	EC	555353

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-6 A-E

Collected: 1/26/01 8:30:00 SPL Sample ID: 01010773-05

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	1350	2	1		01/30/01 11:30	SN	551630
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551652
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	1900	25	25		02/02/01 10:30	CV	554620
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/30/01 8:23	DQ	548026

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL				MCL	SW6010B	Units: mg/L	
Arsenic	ND	0.005	1		02/12/01 23:38	NS	564823
Lead	ND	0.005	1		02/09/01 4:00	NS	562272
Selenium	ND	0.005	1		02/09/01 4:00	NS	562272
Barium	0.284	0.005	1		02/07/01 2:09	EG	559621
Cadmium	ND	0.005	1		02/07/01 2:09	EG	559621
Calcium	188	0.1	1		02/07/01 2:09	EG	559621
Chromium	ND	0.01	1		02/07/01 2:09	EG	559621
Iron	2.01	0.02	1		02/07/01 2:09	EG	559621
Magnesium	147	0.1	1		02/07/01 2:09	EG	559621
Potassium	20.9	2	1		02/07/01 2:09	EG	559621
Silver	ND	0.01	1		02/07/01 2:09	EG	559621
Sodium	1610	5	10		02/07/01 23:33	EG	560836

Prep Method	Prep Date	Prep Initials
SW3010A	02/12/2001 11:00	MW
SW3010A	01/31/2001 20:00	R_T

PH				MCL	E150.1	Units: pH Units	
pH	7.2	0.10	1		01/27/01 13:30	EC	549717
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	40	5	5		02/07/01 16:08	D_R	559908
Ethylbenzene	130	5	5		02/07/01 16:08	D_R	559908
Toluene	ND	5	5		02/07/01 16:08	D_R	559908
m,p-Xylene	8.4	5	5		02/07/01 16:08	D_R	559908
o-Xylene	ND	5	5		02/07/01 16:08	D_R	559908
Xylenes, Total	8.4	5	5		02/07/01 16:08	D_R	559908
Surr: 1,4-Difluorobenzene	110	% 72-137	5		02/07/01 16:08	D_R	559908
Surr: 4-Bromofluorobenzene	190MI	% 48-156	5	*	02/07/01 16:08	D_R	559908

Qualifiers: ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL

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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-6 A-E

Collected: 1/26/01 8:30:00

SPL Sample ID: 01010773-05

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.105	0.00100	1		02/05/01 12:30	CC	555450
SPECIFIC GRAVITY @ 25 C			MCL	ASTM D-1429	Units: Specific Gravity @		
Specific Gravity	0.999	0	1		01/27/01 13:15	EC	549754
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 480	50	50		01/30/01 13:00	SN	552140
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 2900	200	20		01/30/01 14:40	EC	555354

Qualifiers:

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-7 A-E

Collected: 1/26/01 8:00:00

SPL Sample ID: 01010773-06

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	818	2	1		01/30/01 11:30	SN	551631
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/30/01 11:30	SN	551653
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	✓ 7580	100	100		02/02/01 10:30	CV	554621
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	✓ ND	0.0002	1		01/30/01 8:23	DQ	548027

Prep Method	Prep Date	Prep Initials
SW7470A	01/29/2001 11:00	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.0319	0.005		1	02/12/01 18:07	NS	564763
Lead	✓ ND	0.005		1	02/12/01 18:07	NS	564763
Selenium	✓ 0.0138	0.005		1	02/12/01 18:07	NS	564763
Barium	✓ 0.023	0.005		1	02/08/01 18:19	EG	561436
Cadmium	✓ ND	0.005		1	02/08/01 18:19	EG	561436
Calcium	✓ 508	2	20		02/08/01 19:03	EG	561500
Chromium	✓ ND	0.01		1	02/08/01 18:19	EG	561436
Iron	✓ 0.0808	0.02		1	02/08/01 18:19	EG	561436
Magnesium	✓ 110	0.1		1	02/08/01 18:19	EG	561436
Potassium	✓ 208	2		1	02/08/01 18:19	EG	561436
Silver	✓ ND	0.01		1	02/08/01 18:19	EG	561436
Sodium	6700	10	20		02/08/01 19:03	EG	561500

Prep Method	Prep Date	Prep Initials
SW3010A	01/31/2001 20:00	R_T

PH			MCL	E150.1	Units: pH Units		
pH	6.9	0.10		1	01/27/01 13:30	EC	549719

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ ND	1		1	02/06/01 13:45	D_R	557759
Ethylbenzene	✓ ND	1		1	02/06/01 13:45	D_R	557759
Toluene	✓ ND	1		1	02/06/01 13:45	D_R	557759
m,p-Xylene	✓ ND	1		1	02/06/01 13:45	D_R	557759
o-Xylene	✓ ND	1		1	02/06/01 13:45	D_R	557759
Xylenes, Total	✓ ND	1		1	02/06/01 13:45	D_R	557759
Surr: 1,4-Difluorobenzene	99.1	% 72-137		1	02/06/01 13:45	D_R	557759
Surr: 4-Bromofluorobenzene	97.8	% 48-156		1	02/06/01 13:45	D_R	557759

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW-7 A-E

Collected: 1/26/01 8:00:00

SPL Sample ID: 01010773-06

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
RESISTANCE @ 25 C				MCL	120.1	Units: Mohms/cm	
Resistance	34.2	0.00100	1		02/05/01 12:30	CC	555452
SPECIFIC GRAVITY @ 25 C				MCL	ASTM D-1429	Units: Specific Gravity @	
Specific Gravity	1.025	0	1		01/27/01 13:15	EC	549756
SULFATE, TOTAL				MCL	E375.4	Units: mg/L	
Sulfate	✓ 11700	1000	1000		01/30/01 13:00	SN	552141
TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	✓ 7180	200	20		01/30/01 14:40	EC	555355

Qualifiers:

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J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R28923

Method Blank

Samples in Analytical Batch:

RunID: HP_R_010201A-553391 Units: ug/L
Analysis Date: 02/01/2001 10:07 Analyst: D_R

Lab Sample ID Client Sample ID
01010773-01A MW-1 A-E
01010773-02A MW-5 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Sum: 1,4-Difluorobenzene	99.3	72-137
Sum: 4-Bromofluorobenzene	102.4	48-156

Laboratory Control Sample (LCS)

RunID: HP_R_010201A-553390 Units: ug/L
Analysis Date: 02/01/2001 9:16 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	47	94	70	130
Ethylbenzene	50	49	97	70	130
Toluene	50	48	97	70	130
m,p-Xylene	100	96	96	70	130
o-Xylene	50	49	97	70	130
Xylenes, Total	150	145	97	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010745-06
RunID: HP_R_010201A-553397 Units: ug/L
Analysis Date: 02/01/2001 15:52 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	97.9	20	16	79.0	21.3 *	21	32	164
Ethylbenzene	ND	20	19	95.8	20	15	76.4	22.5 *	19	52	142
Toluene	ND	20	20	95.4	20	16	77.0	21.4 *	20	38	159
m,p-Xylene	ND	40	39	97.7	40	31	77.0	23.7 *	17	53	144
o-Xylene	ND	20	20	101	20	16	80.3	22.6 *	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R28923

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010745-06
RunID: HP_R_010201A-553397 Units: ug/L
Analysis Date: 02/01/2001 15:52 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	ND	60	59	98.3	60	47	78.3	22.6 *	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29024

Method Blank

Samples in Analytical Batch:

RunID: HP_R_010204A-555389 Units: ug/L
Analysis Date: 02/05/2001 12:00 Analyst: D_R

Lab Sample ID 01010773-03A
Client Sample ID MW-13 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	98.7	72-137
Surr: 4-Bromofluorobenzene	102.5	48-156

Laboratory Control Sample (LCS)

RunID: HP_R_010204A-555371 Units: ug/L
Analysis Date: 02/04/2001 20:18 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	48	96	70	130
Ethylbenzene	50	49	98	70	130
Toluene	50	48	97	70	130
m,p-Xylene	100	97	97	70	130
o-Xylene	50	49	98	70	130
Xylenes, Total	150	146	97	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01020010-01
RunID: HP_R_010204A-556387 Units: ug/L
Analysis Date: 02/05/2001 18:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	5.5	20	26	104	20	26	105	1.15	21	32	164
Ethylbenzene	0.95	20	21	98.8	20	20	97.1	1.76	19	52	142
Toluene	2.0	20	22	100	20	22	98.1	1.96	20	38	159
m,p-Xylene	2.1	40	34	80.0	40	31	73.3	8.85	17	53	144
o-Xylene	0.97	20	19	87.9	20	18	82.7	6.09	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29024

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01020010-01
RunID: HP_R_010204A-556387 Units: ug/L
Analysis Date: 02/05/2001 18:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	3.1	60	53	83.2	60	49	76.6	8.35	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29085

Method Blank

Samples in Analytical Batch:

RunID: HP_R_010205B-556614 Units: ug/L
Analysis Date: 02/06/2001 0:58 Analyst: D_R

Lab Sample ID: 01010773-06A
Client Sample ID: MW-7 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	101.6	72-137
Surr: 4-Bromofluorobenzene	98.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_R_010205B-556613 Units: ug/L
Analysis Date: 02/05/2001 21:39 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	46	91	70	130
Ethylbenzene	50	47	95	70	130
Toluene	50	47	94	70	130
m,p-Xylene	100	95	95	70	130
o-Xylene	50	47	95	70	130
Xylenes, Total	150	142	95	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010830-02
RunID: HP_R_010205B-556615 Units: ug/L
Analysis Date: 02/06/2001 1:49 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	2.1	20	24	112	20	24	108	3.58	21	32	164
Ethylbenzene	0.75	20	21	103	20	20	95.4	7.75	19	52	142
Toluene	1.0	20	22	105	20	21	98.5	6.60	20	38	159
m,p-Xylene	1.2	40	35	84.4	40	27	64.6	26.7 *	17	53	144
o-Xylene	0.76	20	20	95.3	20	17	79.8	17.8	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29085

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010830-02
RunID: HP_R_010205B-556615 Units: ug/L
Analysis Date: 02/06/2001 1:49 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	2.0	60	55	88.4	60	44	70.1	23.1 *	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29223

Method Blank

Samples in Analytical Batch:

RunID: HP_R_010207A-559892 Units: ug/L
Analysis Date: 02/07/2001 12:27 Analyst: D_R

Lab Sample ID Client Sample ID
01010773-04A MW-14 A-E
01010773-05A MW-6 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	0.50
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	100.2	72-137
Surr: 4-Bromofluorobenzene	98.2	48-156

Laboratory Control Sample (LCS)

RunID: HP_R_010207A-559888 Units: ug/L
Analysis Date: 02/07/2001 11:36 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	45	89	70	130
Ethylbenzene	50	46	92	70	130
Methyl tert-butyl ether	50	51	102	70	130
Toluene	50	45	91	70	130
m,p-Xylene	100	91	91	70	130
o-Xylene	50	47	93	70	130
Xylenes, Total	150	138	92	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01020146-02
RunID: HP_R_010207A-559920 Units: ug/L
Analysis Date: 02/07/2001 20:51 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	24	121	20	23	116	3.52	21	32	164
Ethylbenzene	ND	20	23	116	20	23	114	1.58	19	52	142
Methyl tert-butyl ether	160	20	180	99.1	20	170	84.2	16.3	20	39	150

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

01010773 Page 22

2/14/01 10:05:57 AM



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010773
Lab Batch ID: R29223

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01020146-02
RunID: HP_R_010207A-559920 Units: ug/L
Analysis Date: 02/07/2001 20:51 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Toluene	ND	20	24	118	20	23	117	0.509	20	38	159
m,p-Xylene	ND	40	42	105	40	41	103	2.07	17	53	144
o-Xylene	ND	20	22	112	20	22	110	1.92	18	53	143
Xylenes, Total	ND	60	64	107	60	63	105	1.57	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10031

Method Blank

Samples in Analytical Batch:

RunID: TJA_010206B-559591 Units: mg/L
Analysis Date: 02/06/2001 23:47 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Lab Sample ID	Client Sample ID
01010773-01C	MW-1 A-E
01010773-02C	MW-5 A-E
01010773-03C	MW-13 A-E
01010773-04C	MW-14 A-E
01010773-05C	MW-6 A-E

Analyte	Result	Rep Limit
Barium	ND	0.005
Cadmium	ND	0.005
Calcium	ND	0.1
Chromium	ND	0.01
Iron	ND	0.02
Magnesium	ND	0.1
Potassium	ND	2
Silver	ND	0.01
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_010206B-559592 Units: mg/L
Analysis Date: 02/06/2001 23:51 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	2	2.15	107	80	120
Cadmium	2	2.21	110	80	120
Calcium	20	21.9	109	80	120
Chromium	2	2.22	111	80	120
Iron	2	2.19	109	80	120
Magnesium	20	22.3	112	80	120
Potassium	20	22.6	113	80	120
Silver	2	2.17	109	80	120
Sodium	20	22	110	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010765-55
RunID: TJA_010206B-559594 Units: mg/L
Analysis Date: 02/07/2001 0:02 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	ND	1	1.05	105	1	1.03	103	1.73	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10031

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010765-55
RunID: TJA_010206B-559594 Units: mg/L
Analysis Date: 02/07/2001 0:02 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Cadmium	ND	1	1.06	106	1	1.05	105	1.76	20	75	125
Calcium	ND	10	10.7	106	10	10.4	104	2.25	20	75	125
Chromium	ND	1	1.07	107	1	1.05	105	1.91	20	75	125
Iron	ND	1	1.06	106	1	1.04	104	1.66	20	75	125
Magnesium	ND	10	10.9	109	10	10.7	107	1.85	20	75	125
Potassium	ND	10	11	104	10	10.6	99.4	4.21	20	75	125
Silver	ND	1	1.05	105	1	1.03	103	1.87	20	75	125
Sodium	ND	10	10.8	108	10	10.5	105	2.23	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10031-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_010208C-562256 Units: mg/L

Analysis Date: 02/09/2001 2:36

Analyst: NS

Preparation Date: 01/31/2001 20:00

Prep By: R_T Method SW3010A

Lab Sample ID

01010773-01C

01010773-02C

01010773-03C

01010773-04C

01010773-05C

Client Sample ID

MW-1 A-E

MW-5 A-E

MW-13 A-E

MW-14 A-E

MW-6 A-E

Analyte	Result	Rep Limit
Lead	ND	0.005
Selenium	ND	0.005

Laboratory Control Sample (LCS)

RunID: TJAT_010208C-562257 Units: mg/L

Analysis Date: 02/09/2001 2:41

Analyst: NS

Preparation Date: 01/31/2001 20:00

Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	2	2.28	114	80	120
Selenium	4	4.69	117	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010765-55

RunID: TJAT_010208C-562259 Units: mg/L

Analysis Date: 02/09/2001 2:56

Analyst: NS

Preparation Date: 01/31/2001 20:00

Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	1	1.09	109	1	1.08	108	1.07	20	75	125
Selenium	ND	2	2.25	113	2	2.21	111	1.66	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10031B

Method Blank

Samples in Analytical Batch:

RunID: TJA_010207C-560821 Units: mg/L
Analysis Date: 02/07/2001 22:25 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Lab Sample ID Client Sample ID
01010773-02C MW-5 A-E
01010773-03C MW-13 A-E
01010773-04C MW-14 A-E
01010773-05C MW-6 A-E

Analyte	Result	Rep Limit
Calcium	ND	0.1
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_010207C-560822 Units: mg/L
Analysis Date: 02/07/2001 22:30 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	20	21.1	106	80	120
Sodium	20	21.4	107	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDS D)

Sample Spiked: 01010765-55
RunID: TJA_010207C-560827 Units: mg/L
Analysis Date: 02/07/2001 22:55 Analyst: EG

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDS D Spike Added	PDS D Result	PDS D % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	ND	10	9.59	95.4	10	9.66	96.1	0.76	20	75	125
Sodium	ND	10	9.75	97.5	10	9.77	97.7	0.11	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MS D)

Sample Spiked: 01010765-55
RunID: TJA_010207C-560824 Units: mg/L
Analysis Date: 02/07/2001 22:41 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MS D Spike Added	MS D Result	MS D % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	ND	50	10.2	20.2 *	50	10.1	20.2 *	0.302	20	75	125
Sodium	ND	50	10.3	20.7 *	50	10.2	20.3 *	1.63	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10031B

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

01010773 Page 28
2/14/01 10:06:06 AM



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10032

Method Blank

Samples in Analytical Batch:

RunID: TJA_010208B-561434 Units: mg/L
Analysis Date: 02/08/2001 18:08 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Lab Sample ID: 01010773-06C
Client Sample ID: MW-7 A-E

Analyte	Result	Rep Limit
Barium	ND	0.005
Cadmium	ND	0.005
Chromium	ND	0.01
Iron	ND	0.02
Magnesium	ND	0.1
Potassium	ND	2
Silver	ND	0.01

Laboratory Control Sample (LCS)

RunID: TJA_010208B-561435 Units: mg/L
Analysis Date: 02/08/2001 18:13 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	2	2.06	103	80	120
Cadmium	2	2.13	107	80	120
Chromium	2	2.14	107	80	120
Iron	2	2.14	107	80	120
Magnesium	20	21.4	107	80	120
Potassium	20	21.9	109	80	120
Silver	2	2.08	104	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 01010773-06
RunID: TJA_010208B-561440 Units: mg/L
Analysis Date: 02/08/2001 18:38 Analyst: EG

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Potassium	208	10	213	52.4 *	10	211	23.7 *	75.4 *	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10032

Sample Spiked: 01010773-06
RunID: TJA_010208B-561437 Units: mg/L
Analysis Date: 02/08/2001 18:24 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	0.023	1	1	97.7	1	0.971	94.8	3.02	20	75	125
Cadmium	ND	1	1.2	120	1	1.17	117	2.59	20	75	125
Chromium	ND	1	1.02	102	1	0.993	99.3	2.71	20	75	125
Iron	0.081	1	1.09	101	1	1.08	100	0.926	20	75	125
Magnesium	110	10	120	98.7	10	120	94.7	4.06	20	75	125
Potassium	210	10	221	132 *	10	219	106	22.3 *	20	75	125
Silver	ND	1	1.11	111	1	1.09	109	2.55	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10032-T

Method Blank

Samples In Analytical Batch:

RunID: TJAT_010212A-564761 Units: mg/L
Analysis Date: 02/12/2001 17:48 Analyst: NS
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Lab Sample ID 01010773-06C
Client Sample ID MW-7 A-E

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Lead	ND	0.005
Selenium	ND	0.005

Laboratory Control Sample (LCS)

RunID: TJAT_010212A-564762 Units: mg/L
Analysis Date: 02/12/2001 17:58 Analyst: NS
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	4.25	106	80	120
Lead	2	2.16	108	80	120
Selenium	4	4.53	113	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 01010773-06
RunID: TJAT_010212A-564767 Units: mg/L
Analysis Date: 02/12/2001 18:28 Analyst: NS

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.0319	2	2.87	142 *	2	2.97	147 *	3.3	20	75	125
Selenium	0.0138	2	3.36	167 *	2	3.5	174 *	4.0	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010773-06
RunID: TJAT_010212A-564764 Units: mg/L
Analysis Date: 02/12/2001 18:12 Analyst: NS
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.032	2	3.07	152 *	2	2.94	145 *	4.44	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10032-T

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010773-06
RunID: TJAT_010212A-564764 Units: mg/L
Analysis Date: 02/12/2001 18:12 Analyst: NS
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	1	1.16	116	1	1.11	111	3.68	20	75	125
Selenium	0.014	2	3.6	179 *	2	3.48	173 *	3.45	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10032B

Method Blank

Samples in Analytical Batch:

RunID: TJA_010208C-561490 Units: mg/L
Analysis Date: 02/08/2001 18:08 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Lab Sample ID: 01010773-06C
Client Sample ID: MW-7 A-E

Analyte	Result	Rep Limit
Calcium	ND	0.1
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_010208C-561491 Units: mg/L
Analysis Date: 02/08/2001 18:13 Analyst: EG
Preparation Date: 01/31/2001 20:00 Prep By: R_T Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	20	21	105	80	120
Sodium	20	21.2	106	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 01010773-06
RunID: TJA_010208C-561501 Units: mg/L
Analysis Date: 02/08/2001 19:08 Analyst: EG

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	508	200	726	109	200	726	109	0.074	20	75	125
Sodium	6700	200	7200	249 *	200	7170	234 *	6.3	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 01010773
Lab Batch ID: 10229-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_010212A-564809 Units: mg/L

Analysis Date: 02/12/2001 22:23 Analyst: NS

Preparation Date: 02/12/2001 11:00 Prep By: MW Method SW3010A

Lab Sample ID

01010773-01C

01010773-02C

01010773-03C

01010773-04C

01010773-05C

Client Sample ID

MW-1 A-E

MW-5 A-E

MW-13 A-E

MW-14 A-E

MW-6 A-E

Analyte	Result	Rep Limit
Arsenic	ND	0.005

Laboratory Control Sample (LCS)

RunID: TJAT_010212A-564810 Units: mg/L

Analysis Date: 02/12/2001 22:28 Analyst: NS

Preparation Date: 02/12/2001 11:00 Prep By: MW Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	4.57	114	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010773-01

RunID: TJAT_010212A-564813 Units: mg/L

Analysis Date: 02/12/2001 22:42 Analyst: NS

Preparation Date: 02/12/2001 11:00 Prep By: MW Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.036	2	2.37	117	2	2.31	114	2.68	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 01010773
Lab Batch ID: 9959

Method Blank

RunID: HGL_010130B-547997 Units: mg/L
Analysis Date: 01/30/2001 8:23 Analyst: DQ
Preparation Date: 01/29/2001 11:00 Prep By: R_T Method SW7470A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01C	MW-1 A-E
01010773-02C	MW-5 A-E
01010773-03C	MW-13 A-E
01010773-04C	MW-14 A-E
01010773-05C	MW-6 A-E
01010773-06C	MW-7 A-E

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID: HGL_010130B-547998 Units: mg/L
Analysis Date: 01/30/2001 8:23 Analyst: DQ
Preparation Date: 01/29/2001 11:00 Prep By: R_T Method SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002	0.00194	97	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010748-06
RunID: HGL_010130B-548007 Units: mg/L
Analysis Date: 01/30/2001 8:23 Analyst: DQ
Preparation Date: 01/29/2001 11:00 Prep By: R_T Method SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.00178	89.2	0.002	0.00193	96.6	7.91	20	85	115

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: pH
Method: E150.1

WorkOrder: 01010773
Lab Batch ID: R28735

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Laboratory Control Sample (LCS)

RunID: WET_010127F-549707 Units: pH Units
Analysis Date: 01/27/2001 13:30 Analyst: EC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7	7	100	98	102

Sample Duplicate

Original Sample: 01010773-01
RunID: WET_010127F-549710 Units: pH Units
Analysis Date: 01/27/2001 13:30 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	6.8	6.9	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Specific Gravity @ 25 C
Method: ASTM D-1429

WorkOrder: 01010773
Lab Batch ID: R28737

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Sample Duplicate

Original Sample: 01010773-01
RunID: WET_010127G-549743 Units: Specific Gravity @
Analysis Date: 01/27/2001 13:15 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Specific Gravity	0.993	0.992	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Bicarbonate, as CaCO₃
Method: E310.1

WorkOrder: 01010773
Lab Batch ID: R28829

Method Blank

RunID: WET_010130ZF-551622 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate	ND	2.0

Laboratory Control Sample (LCS)

RunID: WET_010130ZF-551624 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Bicarbonate	23.4	24.2	104	90	110

Sample Duplicate

Original Sample: 01010773-01
RunID: WET_010130ZF-551625 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate	758	758	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Carbonate, as CaCO₃
Method: E310.1

WorkOrder: 01010773
Lab Batch ID: R28833

Method Blank

RunID: WET_010130ZG-551644 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Analyte	Result	Rep Limit
Alkalinity, Carbonate	ND	2.0

Laboratory Control Sample (LCS)

RunID: WET_010130ZG-551646 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Carbonate	23.4	24.2	104	90	110

Sample Duplicate

Original Sample: 01010773-01
RunID: WET_010130ZG-551647 Units: mg/L
Analysis Date: 01/30/2001 11:30 Analyst: SN

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Sulfate, Total
Method: E375.4

WorkOrder: 01010773
Lab Batch ID: R28856

Method Blank

RunID: WET_010130ZH-552130 Units: mg/L
Analysis Date: 01/30/2001 13:00 Analyst: SN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Analyte	Result	Rep Limit
Sulfate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_010130ZH-552132 Units: mg/L
Analysis Date: 01/30/2001 13:00 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	50	49.6	99	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010773-01
RunID: WET_010130ZH-552134 Units: mg/L
Analysis Date: 01/30/2001 13:00 Analyst: SN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	3.5	5	7.8	86.0	5	7.8	86.0	0	9.5	80	119

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Chloride, Total
Method: E325.3

WorkOrder: 01010773
Lab Batch ID: R28982A

Method Blank

RunID: WET_010202Y-554592 Units: mg/L
Analysis Date: 02/02/2001 10:30 Analyst: CV

Analyte	Result	Rep Limit
Chloride	ND	1.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Laboratory Control Sample (LCS)

RunID: WET_010202Y-554594 Units: mg/L
Analysis Date: 02/02/2001 10:30 Analyst: CV

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	109	107	98	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 01010722-11
RunID: WET_010202Y-554610 Units: mg/L
Analysis Date: 02/02/2001 10:30 Analyst: CV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	100	100	203	99.9	100	203	99.9	0	20	85	115

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership
Monument, NM 88265

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 01010773
Lab Batch ID: R29023A

Method Blank

RunID: WET_010130ZJ-555332 Units: mg/L
Analysis Date: 01/30/2001 14:40 Analyst: EC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue, Filterable)	ND	10

Laboratory Control Sample (LCS)

RunID: WET_010130ZJ-555334 Units: mg/L
Analysis Date: 01/30/2001 14:40 Analyst: EC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Total Dissolved Solids (Residue, Filterable)	470.5	460	98	90	110

Sample Duplicate

Original Sample: 01010722-12
RunID: WET_010130ZJ-555346 Units: mg/L
Analysis Date: 01/30/2001 14:40 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue, Filterable)	340	332	2	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Monument, NM 88265

Analysis: Resistance @ 25 C
Method: 120.1

WorkOrder: 01010773
Lab Batch ID: R29027

Method Blank

RunID: WET_010205C-555429 Units: Mohms/cm
Analysis Date: 02/05/2001 9:30 Analyst: CC

Analyte	Result	Rep Limit
Resistance	ND	0.0010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010773-01B	MW-1 A-E
01010773-02B	MW-5 A-E
01010773-03B	MW-13 A-E
01010773-04B	MW-14 A-E
01010773-05B	MW-6 A-E
01010773-06B	MW-7 A-E

Laboratory Control Sample (LCS)

RunID: WET_010205C-555435 Units: Mohms/cm
Analysis Date: 02/05/2001 9:30 Analyst: CC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Resistance	1408.8	1420	101	90	110

Sample Duplicate

Original Sample: 01010773-05
RunID: WET_010205C-555450 Units: Mohms/cm
Analysis Date: 02/05/2001 12:30 Analyst: CC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Resistance	0.105	0.108	3	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

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*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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(713) 660-0901

Sample Receipt Checklist

Workorder: 01010773
Date and Time Received: 1/27/01 10:00:00 AM
Temperature: 4

Received by: Stelly, D'Anna
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	Yes ☒	No ☐	Not Present ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	



SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Worksheet No:

091961

page 1 of 3

Client Name: DYNEGY MIDSTREAM

Address/Phone: 0.130x67 505.343-2823x227

Client Contact: CSX HK DELEON

Project Name:

Project Number:

Project Location: MCQUINN, NM 88265

Invoice To: SAME

SAMPLE ID

DATE

TIME

comp

grab

matrix

bottle

size

pres.

Number of Containers

Requested Analysis

MW# 1 A

1-26-01

1:00

B

C

D

E

MW# 5 A

1-26-01

4:45 AM

B

C

D

E

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☐ NTemp: ☐ PM review (initial):

Special Detection Limits (specify):

Raw Data ☐Level 4 QC ☐Level 3 QC ☐Standard QC ☐

1. Relinquished by Sampler:

3. Relinquished by:

5. Relinquished by:

Requested TAT

24hr ☐72hr ☐48hr ☐Standard ☒Other ☐

2. Received by:

4. Received by:

6. Received by Laboratory:

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

Client Name:	DYNEGY MIDSTREAM
Address/Phone/Fax	Box 67 505-393-2823 x 227
Client Contact:	BSCAR DELCEN
Project Name:	
Project Number:	
Project Location:	Monument, NM 88265
Invoice To:	SAGE

SAMPLE ID	DATE	TIME	comp	grab
MW-6 A	1-26-01	8:30 pm		
B				
C				
D				
E				
MW-7 A	1-26-01	8:30 pm		
B				
C				
D				
E				

[illegible]

Client/Consultant Remarks:		Laboratory remarks:		Intact? ☒ Y ☐ N	
Requested TAT		Special Reporting Requirements		Temp:	
24hr ☐	72hr ☐	Fax Results ☐	Raw Data ☐	Special Detection Limits (specify):	
48hr ☐	Standard ☒	Level 3 QC ☐	Level 4 QC ☐	PM review (initial):	
Other ☐		Standard QC ☐		(P)	
1. Relinquished by Sampler:		date	2. Received by:	time	
3. Relinquished by:		date	4. Received by:	time	
5. Relinquished by:		date	6. Received by Laboratory:	time	

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HOUSTON, TEXAS 77054
(713) 660-9901

RECEIVED

Case Narrative for:
Dynegy Midstream Services Limited Partnership **AUG 01 2000**

Certificate of Analysis Number:

ARCADIS Geraghty & Miller

00070460

Report To: ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925	Project Name: 2000 Sampling Site: Monument, NM 88265 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 7/25/00
--	--

Your sample ID "MW#7 A-E" (SPL ID: 00070460-04) was randomly selected for the use in SPL's quality control program for the Total Metals analysis by SW846 method 6010. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for several elements (Batch ID: 6127), due to matrix interference. A Post Digestion spike (PDS) and a Post Digestion Spike Duplicate (PDSD) was performed. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "MW#7 A-E" (SPL ID: 00070460-04) was randomly selected for the use in SPL's quality control program for the Total Metals analysis by SW846 method 6010. The Post Digestion spike (PDS) and a Post Digestion Spike Duplicate (PDSD) was performed and recoveries were outside of the advisable quality control limits for Calcium and Sodium (Batch ID: 6127A), due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sonia West
West, Sonia
Senior Project Manager

7/26/00

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

00070460

Report To: ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925 Fax To: ARCADIS Geraghty & Miller Tim Brandon fax: (918) 664-9925	Project Name: 2000 Sampling Site: Monument, NM 88265 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 7/25/00
--	--

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW#1A-E	00070460-01	Water	7/19/00 1:00:00 PM	7/20/00 10:00:00 AM	095968	☐
MW# 5A-E	00070460-02	Water	7/19/00 12:30:00 PM	7/20/00 10:00:00 AM	095968	☐
MW#6 A-E	00070460-03	Water	7/19/00 10:00:00 AM	7/20/00 10:00:00 AM	095969	☐
MW#7 A-E	00070460-04	Water	7/19/00 9:00:00 AM	7/20/00 10:00:00 AM	095969	☐
MW#13 A-E	00070460-05	Water	7/19/00 1:30:00 PM	7/20/00 10:00:00 AM	095970	☐
MW#14 A-E	00070460-06	Water	7/19/00 10:45:00 AM	7/20/00 10:00:00 AM	095970	☐

Sonia West
West, Sonia
Senior Project Manager

7/25/00

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8890 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#1A-E

Collected: 7/19/00 1:00:00

SPL Sample ID: 00070460-01

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	800	1	1		07/20/00 16:30	SN	341235
CARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341292
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 74.9	2	2		07/20/00 15:00	CV	341380
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ ND	0.0002	1		07/21/00 12:53	PB	341700

Run ID/Seq #: HGL 000721A-341700

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.0333	0.005	1		07/20/00 22:16	EG	341529
Lead	✓ ND	0.005	1		07/20/00 22:16	EG	341529
Selenium	✓ ND	0.005	1		07/20/00 22:16	EG	341529
Barium	✓ 2.77	0.005	1		07/21/00 12:18	JM	341651
Cadmium	✓ ND	0.005	1		07/21/00 12:18	JM	341651
Calcium	✓ 77.1	0.1	1		07/21/00 14:11	JM	341928
Chromium	✓ ND	0.01	1		07/21/00 12:18	JM	341651
Iron	✓ 2.92	0.02	1		07/21/00 12:18	JM	341651
Magnesium	✓ 38.1	0.1	1		07/21/00 12:18	JM	341651
Potassium	✓ 4.74	2	1		07/21/00 12:18	JM	341651
Silver	✓ ND	0.01	1		07/21/00 12:18	JM	341651
Sodium	231	0.5	1		07/21/00 14:11	JM	341928

Run ID/Seq #: TJAT 000720D-341529

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721A-341651

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341928

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	6.9	0.10	1		07/20/00 14:00	EC	341106

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#1A-E

Collected: 7/19/00 1:00:00

SPL Sample ID: 00070460-01

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ 1700	5	5	5	07/20/00 18:19	D_R	341394
Ethylbenzene	✓ 39	5	5	5	07/20/00 18:19	D_R	341394
Toluene	✓ ND	5	5	5	07/20/00 18:19	D_R	341394
m,p-Xylene	✓ ND	5	5	5	07/20/00 18:19	D_R	341394
o-Xylene	✓ ND	5	5	5	07/20/00 18:19	D_R	341394
Xylenes, Total	✓ ND	5	5	5	07/20/00 18:19	D_R	341394
Surr: 1,4-Difluorobenzene	128	% 72-137	5	5	07/20/00 18:19	D_R	341394
Surr: 4-Bromofluorobenzene	101	% 48-156	5	5	07/20/00 18:19	D_R	341394
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.639	0.00100	1	1	07/20/00 15:45	C_V	340485
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.001	0	1	1	07/20/00 15:00	EC	341426
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 23	2.5	2.5	2.5	07/20/00 11:00	SN	341134
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 1070	10	1	1	07/20/00 17:00	EC	341829

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW# 5A-E

Collected: 7/19/00 12:30:00 SPL Sample ID: 00070460-02

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	646	1	1		07/20/00 16:30	SN	341237
CARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341294
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 9530	100	100		07/20/00 15:00	CV	341384
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ ND	0.0002	1		07/21/00 12:53	PB	341697

Run ID/Seq #: HGL 000721A-341697

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.00837	0.005		1	07/20/00 22:27	EG	341530
Lead	✓ ND	0.005		1	07/20/00 22:27	EG	341530
Selenium	✓ ND	0.005		1	07/20/00 22:27	EG	341530
Barium	✓ 0.0313	0.005		1	07/21/00 12:22	JM	341652
Cadmium	✓ ND	0.005		1	07/21/00 12:22	JM	341652
Calcium	✓ 460	2		20	07/21/00 14:16	JM	341929
Chromium	✓ ND	0.01		1	07/21/00 12:22	JM	341652
Iron	✓ 0.451	0.02		1	07/21/00 12:22	JM	341652
Magnesium	✓ 221	0.1		1	07/21/00 12:22	JM	341652
Potassium	✓ 73.6	2		1	07/21/00 12:22	JM	341652
Silver	✓ ND	0.01		1	07/21/00 12:22	JM	341652
Sodium	6660	10		20	07/21/00 14:16	JM	341929

Run ID/Seq #: TJAT 000720D-341530

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721A-341652

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341929

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	7	0.10		1	07/20/00 14:00	EC	341108

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW# 5A-E

Collected: 7/19/00 12:30:00 SPL Sample ID: 00070460-02

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ 150	1	1		07/20/00 18:45	D_R	341397
Ethylbenzene	✓ ND	1	1		07/20/00 18:45	D_R	341397
Toluene	✓ ND	1	1		07/20/00 18:45	D_R	341397
m,p-Xylene	✓ ND	1	1		07/20/00 18:45	D_R	341397
o-Xylene	✓ ND	1	1		07/20/00 18:45	D_R	341397
Xylenes, Total	✓ ND	1	1		07/20/00 18:45	D_R	341397
Surr: 1,4-Difluorobenzene	108	% 72-137	1		07/20/00 18:45	D_R	341397
Surr: 4-Bromofluorobenzene	105	% 48-156	1		07/20/00 18:45	D_R	341397
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	ND	0.00100	1		07/20/00 15:45	C_V	340486
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.016	0	1		07/20/00 15:00	EC	341430
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 1400	100	100		07/20/00 11:00	SN	341140
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 22000	10	4		07/20/00 17:00	EC	341831

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#6 A-E

Collected: 7/19/00 10:00:00 SPL Sample ID: 00070460-03

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	1630	1	1		07/20/00 16:30	SN	341238
CARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341295
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 1660	25	25		07/20/00 15:00	CV	341385
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ ND	0.0002	1		07/21/00 12:53	PB	341701

Run ID/Seq #: HGL 000721A-341701

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.00923	0.005	1		07/20/00 22:53	EG	341533
Lead	✓ ND	0.005	1		07/20/00 22:53	EG	341533
Selenium	✓ ND	0.005	1		07/20/00 22:53	EG	341533
Barium	✓ 0.36	0.005	1		07/21/00 12:26	JM	341653
Cadmium	✓ ND	0.005	1		07/21/00 12:26	JM	341653
Calcium	✓ 144	0.1	1		07/21/00 14:20	JM	341930
Chromium	✓ 0.0165	0.01	1		07/21/00 12:26	JM	341653
Iron	✓ 4.07	0.02	1		07/21/00 12:26	JM	341653
Magnesium	✓ 150	0.1	1		07/21/00 12:26	JM	341653
Potassium	✓ 17.8	2	1		07/21/00 12:26	JM	341653
Silver	✓ ND	0.01	1		07/21/00 12:26	JM	341653
Sodium	1190	5	10		07/21/00 14:24	JM	341931

Run ID/Seq #: TJAT 000720D-341533

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721A-341653

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341930

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341931

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	7.1	0.10	1		07/20/00 14:00	EC	341109

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#6 A-E

Collected: 7/19/00 10:00:00 SPL Sample ID: 00070460-03

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ 34	1	1		07/21/00 12:00	D_R	341599
Ethylbenzene	✓ 160	1	1		07/21/00 12:00	D_R	341599
Toluene	✓ ND	1	1		07/21/00 12:00	D_R	341599
m,p-Xylene	✓ ND	1	1		07/21/00 12:00	D_R	341599
o-Xylene	✓ ND	1	1		07/21/00 12:00	D_R	341599
Xylenes, Total	✓ ND	1	1		07/21/00 12:00	D_R	341599
Surr: 1,4-Difluorobenzene	86.3 %	72-137	1		07/21/00 12:00	D_R	341599
Surr: 4-Bromofluorobenzene	102 %	48-156	1		07/21/00 12:00	D_R	341599
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.113	0.00100	1		07/20/00 15:45	C_V	340487
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1	0	1		07/20/00 15:00	EC	341432
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 46	5	5		07/20/00 11:00	SN	341142
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 4310	10	4		07/20/00 17:00	EC	341832

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#7 A-E

Collected: 7/19/00 9:00:00

SPL Sample ID: 00070460-04

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	851	1	1		07/20/00 16:30	SN	341239
CARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341296
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 10600	250	250		07/20/00 15:00	CV	341387
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ 0.000908	0.0002	1		07/21/00 12:53	PB	341702

Run ID/Seq #: HGL_000721A-341702

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.019	0.005	1		07/20/00 21:12	EG	341523
Lead	✓ ND	0.005	1		07/20/00 21:12	EG	341523
Selenium	✓ 0.00551	0.005	1		07/20/00 21:12	EG	341523
Barium	✓ 0.0265	0.005	1		07/21/00 11:45	JM	341642
Cadmium	✓ ND	0.005	1		07/21/00 11:45	JM	341642
Calcium	✓ 953	5	50		07/21/00 13:55	JM	341924
Chromium	✓ ND	0.01	1		07/21/00 11:45	JM	341642
Iron	✓ 0.0873	0.02	1		07/21/00 11:45	JM	341642
Magnesium	✓ 160	0.1	1		07/21/00 11:45	JM	341642
Potassium	✓ 267	2	1		07/21/00 11:45	JM	341642
Silver	✓ ND	0.01	1		07/21/00 11:45	JM	341642
Sodium	11300	25	50		07/21/00 13:55	JM	341924

Run ID/Seq #: TJAT_000720D-341523

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA_000721A-341642

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA_000721B-341924

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	6.7	0.10	1		07/20/00 14:00	EC	341110

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#7 A-E

Collected: 7/19/00 9:00:00

SPL Sample ID: 00070460-04

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ ND	1	1		07/20/00 17:53	D_R	341390
Ethylbenzene	✓ ND	1	1		07/20/00 17:53	D_R	341390
Toluene	✓ ND	1	1		07/20/00 17:53	D_R	341390
m,p-Xylene	✓ ND	1	1		07/20/00 17:53	D_R	341390
o-Xylene	✓ ND	1	1		07/20/00 17:53	D_R	341390
Xylenes, Total	✓ ND	1	1		07/20/00 17:53	D_R	341390
Surr: 1,4-Difluorobenzene	97.6 %	72-137	1		07/20/00 17:53	D_R	341390
Surr: 4-Bromofluorobenzene	102 %	48-156	1		07/20/00 17:53	D_R	341390
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	ND	0.00100	1		07/20/00 15:45	C_V	340489
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.017	0	1		07/20/00 15:00	EC	341435
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 1370	100	100		07/20/00 11:00	SN	341145
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 25400	10	4		07/20/00 17:00	EC	341833

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#13 A-E

Collected: 7/19/00 1:30:00

SPL Sample ID: 00070460-05

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	1190	1	1		07/20/00 16:30	SN	341240
CARBONATE, AS CaCO₃			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341297
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 681	10	10		07/20/00 15:00	CV	341388
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ ND	0.0002	1		07/21/00 12:53	PB	341705

Run ID/Seq #: HGL 000721A-341705

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ ND	0.005	1		07/20/00 23:03	EG	341534
Lead	✓ ND	0.005	1		07/20/00 23:03	EG	341534
Selenium	✓ ND	0.005	1		07/20/00 23:03	EG	341534
Barium	✓ 1.89	0.005	1		07/21/00 12:30	JM	341655
Cadmium	✓ ND	0.005	1		07/21/00 12:30	JM	341655
Calcium	✓ 81.2	0.1	1		07/21/00 14:36	JM	341936
Chromium	✓ ND	0.01	1		07/21/00 12:30	JM	341655
Iron	✓ 1.05	0.02	1		07/21/00 12:30	JM	341655
Magnesium	✓ 49.2	0.1	1		07/21/00 12:30	JM	341655
Potassium	✓ 6.68	2	1		07/21/00 12:30	JM	341655
Silver	✓ ND	0.01	1		07/21/00 12:30	JM	341655
Sodium	701	1	2		07/21/00 14:40	JM	341937

Run ID/Seq #: TJAT 000720D-341534

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721A-341655

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341936

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341937

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	7	0.10	1		07/20/00 14:00	EC	341111

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#13 A-E

Collected: 7/19/00 1:30:00

SPL Sample ID: 00070460-05

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ 1800	10	10		07/21/00 12:52	D_R	341597
Ethylbenzene	✓ 160	10	10		07/21/00 12:52	D_R	341597
Toluene	✓ ND	10	10		07/21/00 12:52	D_R	341597
m,p-Xylene	✓ ND	10	10		07/21/00 12:52	D_R	341597
o-Xylene	✓ ND	10	10		07/21/00 12:52	D_R	341597
Xylenes, Total	✓ ND	10	10		07/21/00 12:52	D_R	341597
Surr: 1,4-Difluorobenzene	112 %	72-137	10		07/21/00 12:52	D_R	341597
Surr: 4-Bromofluorobenzene	96.7 %	48-156	10		07/21/00 12:52	D_R	341597
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.232	0.00100	1		07/20/00 15:45	C_V	340490
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.005	0	1		07/20/00 15:00	EC	341437
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 288	25	25		07/20/00 11:00	SN	341147
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 2310	10	2		07/20/00 17:00	EC	341834

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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Client Sample ID: MW#14 A-E

Collected: 7/19/00 10:45:00 SPL Sample ID: 00070460-06

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Bicarbonate	748	1	1		07/20/00 16:30	SN	341241
CARBONATE, AS CaCO3			MCL	E310.1	Units: mg/L		
Alkalinity, Carbonate	ND	2	1		07/20/00 16:30	SN	341298
CHLORIDE, TOTAL			MCL	E325.3	Units: mg/L		
Chloride	✓ 11100	250	250		07/20/00 15:00	CV	341389
MERCURY, TOTAL			MCL	SW7470A	Units: mg/L		
Mercury	✓ ND	0.0002	1		07/21/00 12:53	PB	341706

Run ID/Seq #: HGL 000721A-341706

Prep Method	Prep Date	Prep Initials
SW7470A	07/21/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	✓ 0.00991	0.005		1	07/20/00 23:14	EG	341535
Lead	✓ ND	0.005		1	07/20/00 23:14	EG	341535
Selenium	✓ ND	0.005		1	07/20/00 23:14	EG	341535
Barium	✓ 0.0502	0.005		1	07/21/00 12:34	JM	341657
Cadmium	✓ ND	0.005		1	07/21/00 12:34	JM	341657
Calcium	✓ 572	1	10		07/21/00 14:44	JM	341939
Chromium	✓ ND	0.01		1	07/21/00 12:34	JM	341657
Iron	✓ 1.7	0.02		1	07/21/00 12:34	JM	341657
Magnesium	✓ 279	0.1		1	07/21/00 12:34	JM	341657
Potassium	✓ 69.9	2		1	07/21/00 12:34	JM	341657
Silver	✓ ND	0.01		1	07/21/00 12:34	JM	341657
Sodium	6460	5	10		07/21/00 14:44	JM	341939

Run ID/Seq #: TJAT 000720D-341535

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721A-341657

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

Run ID/Seq #: TJA 000721B-341939

Prep Method	Prep Date	Prep Initials
SW3010A	07/20/2000 12:25	AA

PH			MCL	E150.1	Units: pH Units		
pH	6.8	0.10		1	07/20/00 14:00	EC	341112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



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Client Sample ID: MW#14 A-E

Collected: 7/19/00 10:45:00 SPL Sample ID: 00070460-06

Site: Monument, NM 88265

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	✓ 29	1	1	1	07/21/00 12:26	D_R	341596
Ethylbenzene	✓ 7	1	1	1	07/21/00 12:26	D_R	341596
Toluene	✓ ND	1	1	1	07/21/00 12:26	D_R	341596
m,p-Xylene	✓ 5.4	1	1	1	07/21/00 12:26	D_R	341596
o-Xylene	✓ ND	1	1	1	07/21/00 12:26	D_R	341596
Xylenes, Total	✓ 5.4	1	1	1	07/21/00 12:26	D_R	341596
Surr: 1,4-Difluorobenzene	98.6 %	72-137	1	1	07/21/00 12:26	D_R	341596
Surr: 4-Bromofluorobenzene	97.1 %	48-156	1	1	07/21/00 12:26	D_R	341596
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	ND	0.00100	1	1	07/20/00 15:45	C_V	340492
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.023	0	1	1	07/20/00 15:00	EC	341438
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	✓ 2300	250	250	250	07/20/00 11:00	SN	341148
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	✓ 20500	10	4	4	07/20/00 17:00	EC	341836

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

QUALITY CONTROL
DOCUMENTATION



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00070460
Lab Batch ID: R17570

Method Blank

RunID: HP_N_000720A-341379 Units: ug/L
Analysis Date: 07/20/2000 16:09 Analyst: D_R

Samples in Analytical Batch:

Lab Sample ID Client Sample ID
00070460-01A MW#1A-E
00070460-02A MW# 5A-E
00070460-04A MW#7 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	98.6	72-137
Surr: 4-Bromofluorobenzene	101.9	48-156

Laboratory Control Sample (LCS)

RunID: HP_N_000720A-341376 Units: ug/L
Analysis Date: 07/20/2000 15:44 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	53	105	70	130
Ethylbenzene	50	51	102	70	130
Toluene	50	52	104	70	130
m,p-Xylene	100	110	106	70	130
o-Xylene	50	50	101	70	130
Xylenes, Total	150	160	107	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-04
RunID: HP_N_000720A-341383 Units: ug/L
Analysis Date: 07/20/2000 16:35 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	101	20	20	101	.0621	21	32	164
Ethylbenzene	ND	20	19	95.6	20	19	97.4	1.84	19	52	142
Toluene	ND	20	20	98.6	20	20	98.8	0.218	20	38	159
m,p-Xylene	ND	40	39	97.3	40	39	96.6	0.642	17	53	144
o-Xylene	ND	20	20	101	20	20	101	0.0297	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00070460
Lab Batch ID: R17570

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-04
RunID: HP_N_000720A-341383 Units: ug/L
Analysis Date: 07/20/2000 16:35 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	ND	60	59	98.3	60	59	98.3	0	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00070460
Lab Batch ID: R17577

Method Blank

RunID: HP_N_000721A-341594 Units: ug/L
Analysis Date: 07/21/2000 11:14 Analyst: D_R

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-03A	MW#6 A-E
00070460-05A	MW#13 A-E
00070460-06A	MW#14 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	98.0	72-137
Surr: 4-Bromofluorobenzene	104.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_N_000721A-341593 Units: ug/L
Analysis Date: 07/21/2000 10:48 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	53	106	70	130
Ethylbenzene	50	53	106	70	130
Toluene	50	53	106	70	130
m,p-Xylene	100	110	107	70	130
o-Xylene	50	53	107	70	130
Xylenes, Total	150	163	109	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070469-01
RunID: HP_N_000721A-343476 Units: ug/L
Analysis Date: 07/21/2000 17:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	420	20	340	-386*	20	340	-375*	2.84	21	32	164
Ethylbenzene	27	20	40	65.0	20	40	65.6	0.992	19	52	142
Toluene	12	20	27	78.0	20	27	74.6	4.40	20	38	159
m,p-Xylene	33	40	63	76.6	40	63	76.1	0.642	17	53	144
o-Xylene	6.1	20	24	90.6	20	24	90.9	0.327	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

D - Recovery Unreportable due to Dilution

MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership
2000 Sampling

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00070460
Lab Batch ID: R17577

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070469-01
RunID: HP_N_000721A-343476 Units: ug/L
Analysis Date: 07/21/2000 17:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	39	60	87	79.8	60	87	79.8	0	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00070460
Lab Batch ID: 6127

Method Blank

RunID: TJA_000721A-341640 Units: mg/L
Analysis Date: 07/21/2000 11:37 Analyst: JM
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01B	MW#1A-E
00070460-02B	MW# 5A-E
00070460-03B	MW#6 A-E
00070460-04B	MW#7 A-E
00070460-05B	MW#13 A-E
00070460-06B	MW#14 A-E

Analyte	Result	Rep Limit
Barium	ND	0.005
Cadmium	ND	0.005
Chromium	ND	0.01
Iron	ND	0.02
Magnesium	ND	0.1
Potassium	ND	2
Silver	ND	0.01

Laboratory Control Sample (LCS)

RunID: TJA_000721A-341641 Units: mg/L
Analysis Date: 07/21/2000 11:41 Analyst: JM
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	2	1.95	97	80	120
Cadmium	2	1.97	98	80	120
Chromium	2	1.99	99	80	120
Iron	2	1.94	97	80	120
Magnesium	20	19.6	98	80	120
Potassium	20	19.9	100	80	120
Silver	2	1.99	100	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 00070460-04
RunID: TJA_000721A-341649 Units: mg/L
Analysis Date: 07/21/2000 12:10 Analyst: JM

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Cadmium	ND	1	1.31	131*	1	1.35	135*	3.1	20	75	125
Magnesium	160	10	182	220*	10	183	233*	5.8	20	75	125
Potassium	267	10	300	326*	10	303	354*	8.0	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00070460
Lab Batch ID: 6127

Sample Spiked: 00070460-04
RunID: TJA_000721A-341643 Units: mg/L
Analysis Date: 07/21/2000 11:49 Analyst: JM
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	0.026	1	0.863	83.6	1	0.932	90.6	8.01	20	75	125
Cadmium	ND	1	1.18	118	1	1.28	127*	7.70	20	75	125
Chromium	ND	1	0.919	91.9	1	1	100	8.85	20	75	125
Iron	0.087	1	0.947	86.0	1	1.04	94.8	9.82	20	75	125
Magnesium	160	10	145	-150*	10	155	-45.0*	108*	20	75	125
Potassium	270	10	229	-384*	10	249	-184*	70.5*	20	75	125
Silver	ND	1	1.12	112	1	1.21	121	7.40	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00070460
Lab Batch ID: 6127-T

Method Blank

RunID: TJAT_000720D-341521 Units: mg/L
Analysis Date: 07/20/2000 20:57 Analyst: EG
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01B	MW#1A-E
00070460-02B	MW# 5A-E
00070460-03B	MW#6 A-E
00070460-04B	MW#7 A-E
00070460-05B	MW#13 A-E
00070460-06B	MW#14 A-E

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Lead	ND	0.005
Selenium	ND	0.005

Laboratory Control Sample (LCS)

RunID: TJAT_000720D-341522 Units: mg/L
Analysis Date: 07/20/2000 21:04 Analyst: EG
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	3.75	94	80	120
Lead	2	1.89	94	80	120
Selenium	4	3.56	89	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-04
RunID: TJAT_000720D-341524 Units: mg/L
Analysis Date: 07/20/2000 21:23 Analyst: EG
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.019	2	2.11	105	2	1.92	94.9	9.73	20	75	125
Lead	ND	1	0.905	90.5	1	0.827	82.7	8.95	20	75	125
Selenium	0.0055	2	2.04	102	2	1.86	92.6	9.28	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00070460
Lab Batch ID: 6127A

Method Blank

RunID: TJA_000721B-341922 Units: mg/L
Analysis Date: 07/21/2000 13:41 Analyst: JM
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01B	MW#1A-E
00070460-02B	MW# 5A-E
00070460-03B	MW#6 A-E
00070460-04B	MW#7 A-E
00070460-05B	MW#13 A-E
00070460-06B	MW#14 A-E

Analyte	Result	Rep Limit
Calcium	ND	0.1
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_000721B-341923 Units: mg/L
Analysis Date: 07/21/2000 13:45 Analyst: JM
Preparation Date: 07/20/2000 12:25 Prep By: _AA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	20	20	100	80	120
Sodium	20	20.4	102	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 00070460-04
RunID: TJA_000721B-341925 Units: mg/L
Analysis Date: 07/21/2000 13:59 Analyst: JM

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	953	10	1470	5189*	10	1460	5055*	2.6	20	75	125
Sodium	11300	10	11400	1616*	10	11200	-995*	840*	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 00070460
Lab Batch ID: 6148

Method Blank

RunID: HGL_000721A-341694 Units: mg/L
Analysis Date: 07/21/2000 12:53 Analyst: PB
Preparation Date: 07/21/2000 9:45 Prep By: PB Method SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01B	MW#1A-E
00070460-02B	MW# 5A-E
00070460-03B	MW#6 A-E
00070460-04B	MW#7 A-E
00070460-05B	MW#13 A-E
00070460-06B	MW#14 A-E

Laboratory Control Sample (LCS)

RunID: HGL_000721A-341696 Units: mg/L
Analysis Date: 07/21/2000 12:53 Analyst: PB
Preparation Date: 07/21/2000 9:45 Prep By: PB Method SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002	0.002	100	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-02
RunID: HGL_000721A-341698 Units: mg/L
Analysis Date: 07/21/2000 12:53 Analyst: PB
Preparation Date: 07/21/2000 9:45 Prep By: PB Method SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.00171	85.7	0.002	0.00164	82.2	4.11	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Specific Gravity
Method: ASTM D-4052

WorkOrder: 00070460
Lab Batch ID: R17571

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Sample Duplicate

Original Sample: 00070460-01
RunID: WET_0007200-341428 Units: Specific Gravity@
Analysis Date: 07/20/2000 15:00 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Specific Gravity	1.001	1.001	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Resistance @ 25 C
Method: 120.1

WorkOrder: 00070460
Lab Batch ID: R17517

Method Blank

RunID: WET_000720B-340478 Units: Mohms/cm
Analysis Date: 07/20/2000 15:45 Analyst: C_V

Analyte	Result	Rep Limit
Resistance	ND	0.0010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Laboratory Control Sample (LCS)

RunID: WET_000720B-340480 Units: Mohms/cm
Analysis Date: 07/20/2000 15:45 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Resistance	1408.8	1440	102	90	110

Sample Duplicate

Original Sample: 00070402-01
RunID: WET_000720B-340482 Units: Mohms/cm
Analysis Date: 07/20/2000 15:45 Analyst: C_V

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Resistance	ND	ND	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
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Quality Control Report

Dynegy Midstream Services Limited Partnership 2000 Sampling

Analysis: pH
Method: E150.1

WorkOrder: 00070460
Lab Batch ID: R17551

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Laboratory Control Sample (LCS)

RunID: WET_0007201-341105 Units: pH Units
Analysis Date: 07/20/2000 14:00 Analyst: EC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7	7	100	99	101

Sample Duplicate

Original Sample: 00070460-01
RunID: WET_0007201-341106 Units: pH Units
Analysis Date: 07/20/2000 14:00 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	6.9	6.9	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

D - Recovery Unreportable due to Dilution

MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership 2000 Sampling

Analysis: Sulfate, Total
Method: E375.4

WorkOrder: 00070460
Lab Batch ID: R17552

Method Blank

RunID: WET_000720J-341128 Units: mg/L
Analysis Date: 07/20/2000 11:00 Analyst: SN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Analyte	Result	Rep Limit
Sulfate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_000720J-341132 Units: mg/L
Analysis Date: 07/20/2000 11:00 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10	9.75	98	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-01
RunID: WET_000720J-341135 Units: mg/L
Analysis Date: 07/20/2000 11:00 Analyst: SN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	23	12.5	36	104	12.5	35.8	102	1.94	9.5	80	119

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Bicarbonate, as CaCO₃
Method: E310.1

WorkOrder: 00070460
Lab Batch ID: R17555

Method Blank

RunID: WET_000720K-341232 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_000720K-341234 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Bicarbonate	79.42	82	103	90	110

Sample Duplicate

Original Sample: 00070460-01
RunID: WET_000720K-341235 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate	800	800	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Carbonate, as CaCO₃
Method: E310.1

WorkOrder: 00070460
Lab Batch ID: R17557

Method Blank

RunID: WET_000720L-341288 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Analyte	Result	Rep Limit
Alkalinity, Carbonate	ND	2.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Laboratory Control Sample (LCS)

RunID: WET_000720L-341291 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Carbonate	79.42	82	103	90	110

Sample Duplicate

Original Sample: 00070460-01
RunID: WET_000720L-341292 Units: mg/L
Analysis Date: 07/20/2000 16:30 Analyst: SN

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

D - Recovery Unreportable due to Dilution

MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership

2000 Sampling

Analysis: Chloride, Total
Method: E325.3

WorkOrder: 00070460
Lab Batch ID: R17566

Method Blank

RunID: WET_000720M-341375 Units: mg/L
Analysis Date: 07/20/2000 15:00 Analyst: CV

Analyte	Result	Rep Limit
Chloride	ND	1.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Laboratory Control Sample (LCS)

RunID: WET_000720M-341378 Units: mg/L
Analysis Date: 07/20/2000 15:00 Analyst: CV

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	120.3	116	96	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00070460-01
RunID: WET_000720M-341381 Units: mg/L
Analysis Date: 07/20/2000 15:00 Analyst: CV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	75	100	174	98.7	100	177	102	3.39	20	85	115

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

D - Recovery Unreportable due to Dilution

MI - Matrix Interference



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Quality Control Report

Dynegy Midstream Services Limited Partnership 2000 Sampling

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 00070460
Lab Batch ID: R17588

Method Blank

Samples in Analytical Batch:

RunID: WET_000720P-341826 Units: mg/L
Analysis Date: 07/20/2000 17:00 Analyst: EC

Lab Sample ID	Client Sample ID
00070460-01C	MW#1A-E
00070460-02C	MW# 5A-E
00070460-03C	MW#6 A-E
00070460-04C	MW#7 A-E
00070460-05C	MW#13 A-E
00070460-06C	MW#14 A-E

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Laboratory Control Sample (LCS)

RunID: WET_000720P-341828 Units: mg/L
Analysis Date: 07/20/2000 17:00 Analyst: EC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filtera	200	193	96	90	110

Sample Duplicate

Original Sample: 00070460-01
RunID: WET_000720P-341829 Units: mg/L
Analysis Date: 07/20/2000 17:00 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filtera	1070	1060	1	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST



SPL, Inc.

SPL Worksheet No:

095968

Analysis Request & Chain of Custody Record

page 1 of 3

Client Name:	Project Name:	Project Number:	Project Location:	Invoice To:	SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis	Intact?	Temp:
DYNELGY		2000 Sampling	MONUMENT, NM 88265	SOME	MW#1 A	7-19-00	1:00pm			W	V	40	1		BTEX		
					B					W	V	40	1				
					C					W	V	40	1				
					D					W	P	1	2				
					E					W	P	1					
					MW#5 A	7-19-00	12:30pm			W	V	40	1				
					B					W	V	40	1				
					C					W	V	40	1				
					D					W	P	1	2				
					E					W	P	1					

PH & HEAVY METALS
MAJOR CATIONS & ANIONS

1 = 1 liter 4 = 4oz 40 = vial
8 = 8oz 16 = 16oz
1 = HCl 2 = HNO3
3 = H2SO4 O = other:
P = plastic A = amber glass
C = glass V = vial
SL = sludge O = other:
W = water S = soil

Intact? ☒ Y ☐ N
Temp: 3

Special Reporting Requirements: ☒ Raw Data ☐ Level 4 QC
Standard QC ☐ Level 3 QC

Requested TAT: ☒ 24hr ☐ 72hr ☐ Standard ☐ Other

1. Relinquished by: *[Signature]*
3. Relinquished by:
5. Relinquished by:

2. Received by: *[Signature]* 7-19-2000 2pm
4. Received by:
6. Received by Laboratory: *[Signature]* 7/20/00 1000

Laboratory remarks:

☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775



SPL, Inc.

SPL Worksheet No:

095969

Analysis Request & Chain of Custody Record

00070160

page 2 of 3

Client Name: DYNEGY

Address/Phone: PO BOX 67 (505-393-2823) 41227

Client Contact: OSCAR DECEON

Project Name:

Project Number: 2000 Sampling

Project Location: MONUMENT, NM 88265

Invoice To: SAME

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis
MW #6 A	7-19-00	10 AM			W	V	40	1		BTEX
B					W	V	40	1		MAJOR CATIONS & ANIONS
C					W	V	40	1		PAH HEAVY METALS
D					W	P	1	2		
E					W	P	1			
MW #7 A	7-19-00	9 AM			W	V	40	1		
B					W	V	40	1		
C					W	V	40	1		
D					W	P	1	2		
E					W	P	1			

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☐ N

Temp: 32

PM review (initial):

Special Detection Limits (specify):

Raw Data ☐Level 4 QC ☐Fax Results ☒

Special Reporting Requirements

Requested TAT

24hr ☒72hr ☐48hr ☐Standard ☐Other ☐

1. Relinquished by Sampler:

2. Received by:

time 2:30 pm

3. Relinquished by:

time

4. Received by:

time

5. Relinquished by:

time

6. Received by Laboratory:

time 7/20/00 1000

☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Weekend Nov

095970

page 3 of 3

Client Information						Requested Analysis													
Client Name: DYNEGY																			
Address/Phone: P.O. Box 67 (505-393-2823) ext 227																			
Client Contact: OSCAR DECCON																			
Project Name:																			
Project Number: 2000 Sampling																			
Project Location: Monument, NM 88240																			
Invoice To: SOME																			
SAMPLE ID	DATE	TIME	comp.	gab		matrix	bottle	size	pres.	Number of Containers	BTEX	METALS & ANIONS	PB & HEAVY METALS						
MW #13 A	7-19-00	1:30 pm				W	V	40	1		X								
B						W	V	40	1		X								
C						W	V	40	1		X								
D						W	P	1	2			X							
E						W	P	1					X						
MW #14 A	7-19-00	10:45 AM				W	V	40	1		X								
B						W	V	40	1		X								
C						W	V	40	1		X								
D						W	P	1	2			X							
E						W	P	1					X						

Client/Consultant Remarks:

Laboratory remarks:

Special Reporting Requirements

Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐

Raw Data ☐

Fax Results ☒

Requested TAT

24hr ☒ 72hr ☐
 48hr ☐ Standard ☐
 Other ☐

Intact? ☒ Y ☐ N
Temp: 3%
PM review (initial): [Signature]

Special Detection Limits (specify):

2. Received by: [Signature] time: 2:30 pm
 4. Received by: [Signature] time: [blank]
 6. Received by Laboratory: [Signature] time: 7:00 PM

8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777

500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775



HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 00070460

Received by:

Barrera, Nancy

Date and Time Received: 7/20/00 10:00:00 AM

Carrier name:

FedEx

Temperature: 3

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	Yes ☒	No ☐	Not Present ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Annual Summary Report for 1999 Groundwater Monitoring Activities

DYNEGY Monument Gas Plant
Lea County, New Mexico

RECEIVED

FEB 23 2000

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

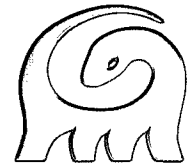
 **ARCADIS**
GERAGHTY & MILLER

February 2000

PREPARED FOR

Dynegy Midstream Services, Inc.
1000 Louisiana, Suite 5800
Houston, Texas 77002

ARCADIS GERAGHTY & MILLER



William C. Olson
New Mexico Oil Conservation Division
Environmental Bureau
2040 S. Pacheco
Santa Fe, New Mexico 87505

ARCADIS Geraghty & Miller Inc
5100 E Skelly Drive
Suite 1000
Tulsa
Oklahoma 74135
Tel 918 664 9900
Fax 918 664 9925

Subject:

Annual Summary Report for 1999 Groundwater Monitoring Activities at DYNEGY
(Former Warren) Monument Gas Plant, Lea County, New Mexico

ENVIRONMENTAL

Dear Mr. Olson:

On behalf of DYNEGY Midstream Services, Inc. (DYNEGY), ARCADIS Geraghty & Miller, Inc. is submitting the following annual summary report for 1999 groundwater monitoring activities at the DYNEGY Monument Gas Plant, Lea County, New Mexico. Groundwater monitoring activities for 1999 were conducted by DYNEGY plant personnel. This annual summary report has been prepared jointly by DYNEGY and ARCADIS Geraghty & Miller, Inc. to satisfy the monitoring and reporting requirements outlined in the New Mexico Oil Conservation District (NMOCD) correspondence dated August 9, 1996, modified as approved in NMOCD correspondence dated June 17, 1998.

Tulsa,
17 February, 2000

Contact:
Tim Brandon

Extension:
(918) 664-9900 ext. 124

SUMMARY OF MONITORING ACTIVITIES

The 1999 monitoring activities consisted of the following quarterly groundwater gauging and semi-annual sampling events. Any deviations, problems, or deficiencies encountered during the monitoring period are noted. Some of the 1999 gauging and sampling events were delayed, but the facility is making a diligent effort to meet the monitoring schedule.

FIRST QUARTER 1999

- Gauged fluid levels in 13 monitoring wells on April 7, 1999.

SECOND QUARTER 1999

- Gauged fluid levels in 13 monitoring wells on August 13, 1999.

THIRD QUARTER 1999

- Gauged fluid levels in 4 monitoring wells on October 28, 1999.
- Sampled four monitoring wells (WP-1, WP-5, WP-7, and WP-14) on October 28, 1999 which did not contain measurable free-phase hydrocarbons. All groundwater samples were analyzed by SPL Laboratory for BTEX constituents

ARCADIS GERAGHTY & MILLER

using USEPA Method 8020A; the inorganic constituents chlorides, TDS, and sulfates; total metals.

- Well WP-2 was essentially dry and could not be sampled.

FOURTH QUARTER 1999

- Gauged fluid levels in 13 monitoring wells on December 14, 1999.
- Sampled four monitoring wells (WP-1, WP-5, WP-7, and WP-14) on January 18, 2000. All groundwater samples were analyzed by SPL Laboratory for BTEX constituents using USEPA Method 8020A; the inorganic constituents chlorides, TDS, and sulfates; total metals.
- Well WP-2 was essentially dry and could not be sampled during the fourth quarter event.

SUMMARY OF MONITORING AND ANALYTICAL RESULTS

FLUID LEVEL MEASUREMENTS

Results of the 1999 fluid-level monitoring activities are summarized below. A site map with monitoring well locations is presented as Figure 1.

- Field measurements, water-level elevations, liquid hydrocarbon thickness, and total depths are presented in Tables 1A, 1B, 1C, and 1D, respectively. A summary table of groundwater elevations corrected for the presence of hydrocarbons is presented in Table 1F. Based on previous results of liquid hydrocarbon characterization conducted at the site, a average specific gravity of 0.725 was used to calculate corrected groundwater elevations. Graphs of groundwater elevations versus time are presented as Appendix A. Water level elevations are also included from May 26, 1998.
- A slight increasing trend in water-level elevations was observed across the site during 1999 with the exception of water-level elevations from Well WP-1. Well WP-2 was essentially dry during 1999.
- Groundwater was encountered at approximately 24.35 feet (ft) to 42.7 ft below the measuring point elevations (Table 1D). The saturated thickness of the alluvial sediments beneath the site ranged from being dry in Well WP-2 to 13.23 ft. in Well WP-7. The saturated thickness was less than 5 ft. in 3 of the 13 wells at the site.
- Groundwater elevation contour maps for each quarterly monitoring period in which all monitoring wells were gauged are presented as Figures 2 through 5 including one map for the May 26, 1998, gauging event. Groundwater flow beneath the eastern half of the site is predominantly towards the southeast while groundwater flow beneath the western portion of the site is toward the south.

An apparent area of groundwater mounding is present east of the processing area. The configuration of the water table appears to be consistent throughout each monitoring event in 1999.

- An anomalous high water-level elevation was recorded in Well WP-1 during the August 13, 1999 gauging event. This value was not used in the construction of the groundwater elevation contour map for this period. The cause of the anomalous data is unknown.

ANALYTICAL RESULTS

Analytical results for the 1999 monitoring program are summarized below.

- A summary of organic and inorganic groundwater quality data for the four wells (WP-1, WP-5, WP-7, and WP-14) sampled during the 1999 monitoring program is presented in Tables 2A. A series of graphs showing BTEX concentrations versus time and inorganic parameter (chlorides, TDS, and sulfate) concentrations versus time are presented as Appendix B. The analytical data sheets for samples collected during the 1999 monitoring program are presented as Appendix C. Groundwater quality data is also included from the May 26, 1998 sampling event
- BTEX levels were detected in three out of four monitoring wells sampled during the 1999 sampling events. Well WP-7 was non detect for BTEX during these two sampling events. Benzene is the predominant constituent detected in three of the four groundwater samples with detectable concentrations of BTEX. During the 1999 Semi-Annual sampling events, the highest concentrations of benzene were detected in Wells WP-1 and WP-5. Xylenes was the predominant constituent detected in Well WP-14 during this period. Wells WP-6 and WP-13 were not sampled over this period due to the presence of a hydrocarbon film.
- Inorganic groundwater quality indicates elevated concentrations of chlorides, TDS, and sulfates are present in the groundwater beneath the site. The highest concentrations of chlorides, TDS, and sulfates were detected in Well WP-7, which is located in the northwest portion of the site. The elevated concentrations do not appear to be related to gas plant operations but are likely related to former operations at the Climax Chemical Company, located approximately one-half mile northwest (upgradient) of the Warren site.
- A summary of total metals data for groundwater samples collected in 1999 is presented in Table 2B. Of the eight RCRA heavy metals, five of the eight (arsenic, barium, chromium, mercury, and selenium) metals were detected in the groundwater samples. Arsenic was detected in all monitoring wells sampled at concentrations ranging from 0.0058 to 0.051 mg/L. Barium was detected in all four monitoring wells sampled at concentrations ranging from 0.022 mg/L to 7.32 mg/L. Chromium was detected in only one sample collected from WP-7 at a concentration of 0.0415 mg/L. Mercury was detected in only one sample collected from Well WP-7 at a concentration of 0.0014 mg/L. Selenium was

detected in two monitoring wells at concentrations ranging from 0.00755 mg/L to 0.0142 mg/L.

DISTRIBUTION OF LIQUID HYDROCARBONS

The approximate extent of liquid hydrocarbons is shown for each quarterly monitoring event on Figures 6 through 9. A brief summary of findings is presented below.

- During April 1999, liquid hydrocarbons were detected in eight (Wells WP-4, WP-6, WP-10, WP-11, WP-12, WP-13, WP-14 and WP-15) of the 13 wells. Liquid hydrocarbon thickness in wells ranged from 0.03 ft in Well WP-6 to 0.91 ft in Well WP-12.
- During August 1999, liquid hydrocarbons were detected in seven (Wells WP-4, WP-6, WP-10, WP-11, WP-12, WP-13, and WP-15) of the 13 wells. Liquid hydrocarbon thickness in wells ranged from 0.02 ft in Wells WP-6 and WP-13, to 0.50 ft in Well WP-12.
- During October 1999, liquid hydrocarbons were not detected in any of the wells gauged.
- During December 1999 liquid hydrocarbons were detected in seven (Wells WP-4, WP-6, WP-10, WP-11, WP-12, WP-13, and WP-15) of the 13 wells. Liquid hydrocarbon thickness in wells ranged from 0.02 ft in Well WP-6 to 0.35 ft in Well WP-15.

SUMMARY OF HYDROCARBON RECOVERY OPERATIONS

Hydrocarbon recovery operations were ceased in April 1997 due to low water-table conditions and pump limitations.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the 1999 monitoring program, the following conclusions can be made.

- A slight increasing trend in water-level elevations was observed across the site during 1999 with the exception of water-level elevations from Well WP-1. Well WP-2 was essentially dry during 1999.
- Groundwater flow beneath the eastern half of the site is predominantly towards the southeast while groundwater flow beneath the western portion of the site is toward the south. An apparent area of groundwater mounding is present east of the processing area, and possibly in Well WP-7. The configuration of the water table appears to be consistent throughout each monitoring event in 1999.

- BTEX levels were detected in all samples from monitoring wells except Well WP-7. Benzene is the predominant constituent detected in three of the four groundwater samples with detectable concentrations of BTEX. During the 1999 monitoring period, the highest concentrations of benzene were detected in Wells WP-1 and WP-5. Xylene was the predominant constituent detected in Well WP-14 during the 1999 sampling event. Wells WP-6 and WP-13 were not sampled after the first quarter of 1997.
- Inorganic groundwater quality indicates elevated concentrations of chlorides, TDS, and sulfates are present in the groundwater beneath the site. The highest concentrations of chlorides, TDS, and sulfates were detected in Well WP-7 which is located in the northwest portion of the site. The elevated concentrations do not appear to be related to gas plant operations but are likely related to former operations at the Climax Chemical Company located approximately one-half mile northwest (upgradient) of the Warren site.
- Only low levels of the heavy metals arsenic, barium, chromium, mercury, and selenium were detected in groundwater samples.
- Hydrocarbon recovery operations were ceased in April 1997 due to low water table conditions and pump limitations. In an effort to make the recovery system operate more efficiently during low water level conditions, DYNEGY may purchase two bottom loading hydrocarbon skimming pumps for Wells WP-4 and WP-13. In addition, an expansion of the hydrocarbon recovery system is proposed.

Based on the results to the 1999 monitoring program the following recommendations can be made.

1. During the March 2000 sampling event, samples should be collected for analysis of BTEX, chlorides, TDS, and sulfates.
2. Complete the upgrade and modification of the hydrocarbon recovery system as discussed above.

Based on information discussed with the NMOCD during the March 5, 1998, meeting, Warren proposes the following groundwater monitoring program for the Monument site in 2000. The 2000 groundwater monitoring program will consist of semi-annual groundwater sampling as approved by NMOCD in the correspondence dated June 17, 1998. Quarterly groundwater gauging activities will also occur during 2000. Prior to sampling, all monitoring wells will be gauged for the presence of liquid hydrocarbons and water-level elevations. The first groundwater sampling event will be conducted in June 2000 in an effort to coincide with late Spring precipitation events. The first event will be considered the comprehensive sampling event as all six monitoring wells (WP-1, WP-5, WP-6, WP-7, WP-13, and WP-14) without liquid hydrocarbons will be sampled for analysis of BTEX, chlorides, TDS, sulfates, and total metals using the appropriate USEPA methods. The second event will be conducted in October to coincide with the end of the Fall precipitation season. Three perimeter downgradient monitor wells (WP-1, WP-5, and WP-14)

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will be sampled during the second event for analysis of BTEX, chlorides, TDS, and sulfates. The above monitoring events are scheduled to coincide with seasonal periods of precipitation and thus, should be representative of higher groundwater flow conditions. The results of the groundwater monitoring program, as well as hydrocarbon recovery activities, will be summarized in an annual report submitted to the NMOCD. The annual report for 2000 will be submitted to the NMOCD by February 15, 2001.

The first sampling event of 2000 monitoring event is scheduled for June. The 2000 groundwater monitoring will be completed per the proposed plan unless additional input is received from the NMOCD. Please contact J. Dee Morris of DYNEGY at (713) 507-6400 if you have any questions regarding this annual summary report package.

Sincerely,

ARCADIS Geraghty & Miller Inc



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TABLES

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Table 1-A, ACTUAL FIELD MEASUREMENTS, from reference point on north side of casing, feet

Monitor Well ID	1995				1996				1997				1998				1999			
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 6/26/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	1st Qtr	2nd Qtr 5/26/98	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr 4/7/99	3rd Qtr 8/13/99	4th Qtr		
WP-1	Product	32.00	25.80	28.00	29.95	30.45	31.08	31.26	31.00	29.72	29.14	29.97				30.55	24.4			
	Water	32.00	25.80	28.00	29.95	30.45	31.08	31.26	31.00	29.72	29.14	29.97				30.55	24.4			
WP-2	Product	30.70	30.95	31.53	31.71	31.71	31.71	31.65	31.65	31.65	31.65	31.65				31.65	31.65			
	Water	31.00	31.35	31.71	31.71	31.71	31.71	31.65	31.65	31.65	31.65	31.65				31.65	31.65			
WP-3	Product	29.40	29.30	29.17	29.53	29.85	29.94	29.94	30.06	NA	NA	NA				NA	NA			
	Water	29.60	29.55	29.45	29.77	29.95	30.26	30.15	30.07	NA	NA	NA				NA	NA			
WP-4	Product	33.60	33.75	33.96	34.70	35.20	35.65	35.68	36.56	36.14	36.30	36.41				36.1	35.2			
	Water	35.00	35.10	35.23	36.60	36.85	37.00	37.17	37.21	37.30	37.30	36.43				36.92	35.65			
WP-5	Product	31.90	32.10	32.62	33.60	34.00	34.57	34.71	34.50	34.19	34.31	32.99				32.18	30.68			
	Water	31.90	32.10	32.62	33.60	34.00	34.57	34.71	34.50	34.19	34.31	32.99				32.18	30.68			
WP-6	Product	28.80	28.80	28.75	28.80	28.80	28.78	28.72	28.75	28.77	28.77	28.76				28.76	28.75			
	Water	28.80	28.80	28.78	28.80	28.80	28.78	28.73	28.76	28.78	28.80	28.81				28.79	28.77			
WP-7	Product	31.25	34.30	31.77	32.10	32.20	32.45	32.47	32.34	31.29	28.65	26.75				27.2	25.1			
	Water	31.25	34.30	31.77	32.10	32.20	32.45	32.47	32.34	31.29	28.65	26.75				27.2	25.1			
WP-8	Product	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA			
	Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA			
WP-9	Product	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA			
	Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA			
WP-10	Product	28.35	28.15	28.10	28.60	28.75	28.88	28.89	29.79	28.89	28.58	28.51				28.73	28.2			
	Water	28.45	28.35	28.30	28.72	28.90	29.14	29.14	29.80	28.90	28.70	28.70				28.8	28.3			
WP-11	Product	NA	29.60	29.32	30.30	30.45	30.61	30.61	30.61	30.78	30.40	30.25				30.45	29.55			
	Water	NA	29.68	29.49	30.43	31.00	31.39	31.53	31.39	31.25	30.51	30.26				31	29.85			
WP-12	Product	NA	38.08	37.54	38.45	38.60	38.95	38.79	38.34	38.09	38.40	38.49				38.6	38.45			
	Water	NA	38.25	37.76	38.50	39.00	39.24	39.02	38.90	38.19	38.95	38.93				39.51	38.95			
WP-13	Product	NA	30.25	29.88	30.55	30.70	30.81	30.83	31.04	31.01	30.80	30.67				30.85	29.75			
	Water	NA	30.25	29.88	30.55	30.70	31.42	31.43	31.61	31.44	31.02	30.74				31.03	29.77			
WP-14	Product	NA	40.75	40.85	40.90	41.00	41.14	41.13	40.90	40.62	41.31	41.75				42.65	42.05			
	Water	NA	40.75	40.85	40.90	41.00	41.14	41.13	40.90	40.62	41.31	41.76				42.7	42.05			
WP-15	Product	NA	33.60	32.96	33.95	33.20	33.10	33.09	33.15	33.11	33.21	33.08				33.05	33.15			
	Water	NA	33.60	33.16	34.30	33.40	33.49	33.47	33.58	33.12	33.58	33.42				33.4	33.4			

Note: The bottom of well WP-2 is 31.71 feet from top of casing. Well #2 is dry.

NA indicates not measured or not able to measure.

Note: well #6 has trace of product but not enough to measure.

Note: #3 MW 3rd Quarter 97 unable to measure due to grounding cable in hole.

G:\PROJECT\DYNEG\YOK532005\Monitor well data.xls\Measurements

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Table 1-B, Water Table Elevations, Feet above MSL

Monitor Well ID	1995				1996				1997				1998				1999			
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 4/2/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	1st Qtr	2nd Qtr 5/26/98	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr 4/7/99	3rd Qtr 8/13/99	4th Qtr		
WP-1	3546.01	3552.21	3550.01	3548.06	3547.56	3546.93	3546.75	3547.01	3548.29	3548.87		3548.04				3547.46	3553.61			
WP-2	3546.77	3546.42	3546.06	3546.06	3546.06	3546.06	3546.12	3546.12	3546.12	3546.12		3546.12				3546.12	3546.12			
WP-3	3551.61	3551.66	3551.76	3551.44	3551.26	3550.95	3551.06	3551.14	NA	NA		NA				NA	NA			
WP-4	3542.15	3542.05	3541.92	3540.55	3540.30	3540.15	3539.98	3539.94	3539.85	3539.85		3540.72				3540.23	3541.50			
WP-5	3547.60	3547.40	3546.88	3545.90	3545.50	3544.93	3544.79	3545.00	3545.31	3545.19		3546.51				3547.32	3548.82			
WP-6	3556.56	3556.56	3556.58	3556.56	3556.56	3556.58	3556.63	3556.60	3548.80	3549.22		3585.36				3585.36	3549.26			
WP-7	3551.79	3548.74	3551.27	3550.94	3550.84	3550.59	3550.57	3550.70	3551.75	3554.39		3556.29				3555.84	3557.94			
WP-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA				NA	NA			
WP-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA				NA	NA			
WP-10	3551.63	3551.73	3551.78	3551.36	3551.18	3550.94	3550.94	3550.28	3551.18	3551.38		3551.38				3551.28	3551.78			
WP-11	NA	3551.55	3551.74	3550.80	3550.23	3549.84	3549.70	3549.84	3549.84	3550.72		3550.97				3550.23	3551.38			
WP-12	NA	3543.64	3544.13	3543.39	3542.89	3542.65	3542.87	3542.99	3543.70	3542.94		3542.96				3542.38	3542.94			
WP-13	NA	3549.40	3549.77	3549.10	3548.95	3548.23	3548.22	3548.04	3548.21	3548.63		3548.91				3548.62	3549.88			
WP-14	NA	3541.06	3540.96	3540.91	3540.81	3540.67	3540.68	3540.91	3541.19	3540.50		3540.05				3539.11	3539.76			
WP-15	NA	3548.67	3549.11	3547.97	3548.87	3548.78	3548.80	3548.69	3549.15	3548.69		3548.85				3548.87	3548.87			

The water table in well WP-3 may be below bottom of well which has an elevation of 3551.91 fmsl.
NA indicates not measured or not able to measure.

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Table 1-C, Product Thickness, feet

Monitor Well ID	1995				1996				1997				1998				1999			
	3rd Qtr 10/31/95	4th Qtr 11/14/95	1st Qtr 1/24/96	2nd Qtr 4/2/96	3rd Qtr 9/26/96	4th Qtr 1/28/97	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	1st Qtr	2nd Qtr 5/26/98	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr 4/7/99	3rd Qtr 8/13/99	4th Qtr		
WP-1																				
WP-2	0.30	0.40	0.18																	
WP-3	0.20	0.25	0.28	0.24	0.10	0.32	0.21	0.01	NA	NA						NA	NA	NA		
WP-4	1.40	1.35	1.27	1.90	1.65	1.35	1.49	0.65	1.16	1.00						0.82	0.45			
WP-5																				
WP-6			0.03				0.01	0.01	0.01	0.03						0.03	0.02			
WP-7																				
WP-8	NA	NA	NA				NA	NA	NA	NA						NA	NA	NA		
WP-9	NA	NA	NA				NA	NA	NA	NA						NA	NA	NA		
WP-10	0.10	0.20	0.20	0.12	0.15	0.26	0.25	0.01	0.01	0.12						0.07	0.10			
WP-11	NA	0.08	0.17	0.13	0.55	0.78	0.92	0.78	0.47	0.11						0.55	0.30			
WP-12	NA	0.17	0.22	0.05	0.40	0.29	0.23	0.56	0.10	0.55						0.91	0.50			
WP-13	NA					0.61	0.60	0.57	0.43	0.22						0.18	0.02			
WP-14	NA															0.05				
WP-15	NA		0.20	0.35	0.20	0.39	0.38	0.43	0.01	0.37						0.35	0.25			

Blanks indicate no product measured. NA indicates not measured or not able to measure.

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TABLE 1-D MEASUREMENTS TO BOTTOM OF WELLS												
Monitor Well ID	1997				1998				1999			
	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 1/5/98	1st Qtr	2nd Qtr 5/26/98	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr 4/7/99	3rd Qtr 8/13/99	4th Qtr
MW-1	34.82	34.82	34.82	34.82		34.82				34.82	34.82	
MW-2	31.65	31.65	31.65	31.65		31.65				31.65	31.65	
MW-3	38.10	38.10	38.10	38.10		38.10				38.10	38.10	
MW-4	37.40	37.40	37.40	37.40		37.40				37.40	37.40	
MW-5	38.00	38.00	38.00	38.00		38.00				38.00	38.00	
MW-6	30.50	30.50	30.50	30.50		30.50				30.50	30.50	
MW-7	37.58	37.58	37.58	37.58		37.58				37.58	37.58	
MW-8	NA	NA	NA	NA		NA				NA	NA	
MW-9	NA	NA	NA	NA		NA				NA	NA	
MW-10	37.20	37.20	37.20	37.20		37.20				37.20	37.20	
MW-11	36.40	36.40	36.40	36.40		36.40				36.40	36.40	
MW-12	43.20	43.20	43.20	43.20		43.20				43.20	43.20	
MW-13	36.40	36.40	36.40	36.40		36.40				36.40	36.40	
MW-14	48.30	48.30	48.30	48.30		48.30				48.30	48.30	
MW-15	35.10	35.10	35.10	35.10		35.10				35.10	35.10	

TABLE 1-E THICKNESS OF PRODUCT AND WATER TO BOTTOM OF HOLE												
Monitor Well ID	1997				1998				1999			
	1st Qtr 2/27/97	2nd Qtr 5/19/97	3rd Qtr 8/19/97	4th Qtr 2/4/00	1st Qtr	2nd Qtr 5/26/98	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr 4/7/99	3rd Qtr 8/13/99	4th Qtr
MW-1	3.56	3.82	5.10	5.68		4.85				4.27	10.42	
MW-2	dry	dry	dry	dry		dry				dry	dry	
MW-3	8.16	8.04	NA	NA		NA				NA	NA	
MW-4	1.72	0.84	1.26	1.10		0.99				1.30	2.20	
MW-5	3.29	3.50	3.81	3.69		5.01				5.82	7.32	
MW-6	1.78	1.75	1.73	1.73		1.74				1.74	1.75	
MW-7	5.11	5.24	6.29	8.93		10.83				10.38	12.48	
MW-8	NA	NA	NA	NA		NA				NA	NA	
MW-9	NA	NA	NA	NA		NA				NA	NA	
MW-10	8.31	7.41	8.31	8.62		8.69				8.47	9.00	
MW-11	5.79	5.79	5.62	6.00		6.15				5.95	6.85	
MW-12	4.41	4.86	5.11	4.80		4.71				4.60	4.75	
MW-13	5.57	5.36	5.39	5.60		5.73				5.55	6.65	
MW-14	7.17	7.40	7.68	6.99		6.55				5.65	6.25	
MW-15	2.01	1.95	1.99	1.89		2.02				2.05	1.95	

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Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
10/31/95	WP-1	3,578.01	34.82	32.00	3,546.01			3,546.01
11/14/95				25.80	3,552.21			3,552.21
1/24/96				28.00	3,550.01			3,550.01
4/2/96				29.95	3,548.06			3,548.06
9/26/96				30.45	3,547.56			3,547.56
1/28/97				31.08	3,546.93			3,546.93
2/27/97				31.26	3,546.75			3,546.75
5/19/97				31.00	3,547.01			3,547.01
8/19/97				29.72	3,548.29			3,548.29
1/5/98				29.14	3,548.87			3,548.87
5/26/98				29.97	3,548.04			3,548.04
4/7/99				30.55	3,547.46			3,547.46
8/13/99				24.40	3,553.61			3,553.61
10/28/99				26.20	3,551.81			3,551.81
12/14/99				27.25	3,550.76			3,550.76
10/31/95	WP-2	3,577.77	31.65	31.00	3,546.77	30.70	0.30	3,546.99
11/14/95				31.35	3,546.42	30.95	0.40	3,546.71
1/24/96				31.71	3,546.06	31.53	0.18	3,546.19
4/2/96				31.71	3,546.06			3,546.06
9/26/96				31.71	3,546.06			3,546.06
1/28/97				31.71	3,546.06			3,546.06
2/27/97				31.65	3,546.12			3,546.12
5/19/97				31.65	3,546.12			3,546.12
8/19/97				31.65	3,546.12			3,546.12
1/5/98				31.65	3,546.12			3,546.12
5/26/98				31.65	3,546.12			3,546.12
4/7/99				31.65	3,546.12			3,546.12
8/13/99				31.65	3,546.12			3,546.12
12/14/99				31.65	3,546.12			3,546.12
10/31/95	WP-3	3,581.21	38.10	29.60	3,551.61	29.40	0.20	3,551.76
11/14/95				29.55	3,551.66	29.30	0.25	3,551.84
1/24/96				29.45	3,551.76	29.17	0.28	3,551.96
4/2/96				29.77	3,551.44	29.53	0.24	3,551.61
9/26/96				29.95	3,551.26	29.85	0.10	3,551.33
1/28/97				30.26	3,550.95	29.94	0.32	3,551.18
2/27/97				30.15	3,551.06	29.94	0.21	3,551.21

Footnotes on last page.

ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
5/19/97	WP-3 (cont'd)			30.07	3,551.14	30.06	0.01	3,551.15
8/19/97				NA	NA	NA	NA	NA
1/5/98				NA	NA	NA	NA	NA
5/26/98				NA	NA	NA	NA	NA
4/7/99				NA	NA	NA	NA	NA
8/13/99				NA	NA	NA	NA	NA
12/14/99				NA	NA	NA	NA	NA
10/31/95	WP-4	3,577.15	37.40	35.00	3,542.15	33.60	1.40	3,543.17
11/14/95				35.10	3,542.05	33.75	1.35	3,543.03
1/24/96				35.23	3,541.92	33.96	1.27	3,542.84
4/2/96				36.60	3,540.55	34.70	1.90	3,541.93
9/26/96				36.85	3,540.30	35.20	1.65	3,541.50
1/28/97				37.00	3,540.15	35.65	1.35	3,541.13
2/27/97				37.17	3,539.98	35.68	1.49	3,541.06
5/19/97				37.21	3,539.94	36.56	0.65	3,540.41
8/19/97				37.30	3,539.85	36.14	1.16	3,540.69
1/5/98				37.30	3,539.85	36.30	1.00	3,540.58
5/26/98				36.43	3,540.72	36.41	0.02	3,540.73
4/7/99				36.92	3,540.23	36.10	0.82	3,540.82
8/13/99				35.65	3,541.50	35.20	0.45	3,541.83
12/14/99				35.2	3,541.95	35.00	0.20	3,542.10
10/31/95	WP-5	3,579.50	38.00	31.90	3,547.60			3,547.60
11/14/95				32.10	3,547.40			3,547.40
1/24/96				32.62	3,546.88			3,546.88
4/2/96				33.60	3,545.90			3,545.90
9/26/96				34.00	3,545.50			3,545.50
1/28/97				34.57	3,544.93			3,544.93
2/27/97				34.71	3,544.79			3,544.79
5/19/97				34.50	3,545.00			3,545.00
8/19/97				34.19	3,545.31			3,545.31
1/5/98				34.31	3,545.19			3,545.19
5/26/98				32.99	3,546.51			3,546.51
4/7/99				32.18	3,547.32			3,547.32
8/13/99				30.68	3,548.82			3,548.82

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
4/2/96	WP-10 (cont'd)			28.72	3,551.36	28.60	0.12	3,551.45
9/26/96				28.90	3,551.18	28.75	0.15	3,551.29
1/28/97				29.14	3,550.94	28.88	0.26	3,551.13
2/27/97				29.14	3,550.94	28.89	0.25	3,551.12
5/19/97				29.80	3,550.28	29.79	0.01	3,550.29
8/19/97				28.90	3,551.18	28.89	0.01	3,551.19
1/5/98				28.70	3,551.38	28.58	0.12	3,551.47
5/26/98				28.70	3,551.38	28.51	0.19	3,551.52
4/7/99				28.80	3,551.28	28.73	0.07	3,551.33
8/13/99				28.30	3,551.78	28.20	0.10	3,551.85
12/14/99				28.00	3,552.08	27.95	0.05	3,552.12
11/14/95	WP-11	3,581.23	36.40	29.68	3,551.55	29.60	0.08	3,551.61
1/24/96				29.49	3,551.74	29.32	0.17	3,551.86
4/2/96				30.43	3,550.80	30.30	0.13	3,550.89
9/26/96				31.00	3,550.23	30.45	0.55	3,550.63
1/28/97				31.39	3,549.84	30.61	0.78	3,550.41
2/27/97				31.53	3,549.70	30.61	0.92	3,550.37
5/19/97				31.39	3,549.84	30.61	0.78	3,550.41
8/19/97				31.25	3,549.98	30.78	0.47	3,550.32
1/5/98				30.51	3,550.72	30.40	0.11	3,550.80
5/26/98				30.26	3,550.97	30.25	0.01	3,550.98
4/7/99				31	3,550.23	30.45	0.55	3,550.63
8/13/99				29.85	3,551.38	29.55	0.30	3,551.60
12/14/99				29.25	3,551.98	29.15	0.10	3,552.05
11/14/95	WP-12	3,581.89	43.2	38.25	3,543.64			3,543.64
1/24/96				37.76	3,544.13			3,544.13
4/2/96				38.50	3,543.39			3,543.39
9/26/96				39.00	3,542.89	38.60	0.40	3,543.18
1/28/97				39.24	3,542.65	38.95	0.29	3,542.86
2/27/97				39.02	3,542.87	38.79	0.23	3,543.04
5/19/97				38.90	3,542.99	38.34	0.56	3,543.40
8/19/97				38.19	3,543.70	38.09	0.10	3,543.77
1/5/98				38.95	3,542.94	38.40	0.55	3,543.34
5/26/98				38.93	3,542.96	38.49	0.44	3,543.28
4/7/99				39.51	3,542.38	38.60	0.91	3,543.04

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ARCADIS GERAGHTY & MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
8/13/99	WP-12 (cont'd)			38.95	3,542.94	38.45	0.50	3,543.30
12/14/99				38.45	3,543.44	38.20	0.25	3,543.62
11/14/95	WP-13	3,579.65	36.40	30.25	3,549.40			3,549.40
1/24/96				29.88	3,549.77			3,549.77
4/2/96				30.55	3,549.10			3,549.10
9/26/96				30.70	3,548.95			3,548.95
1/28/97				31.42	3,548.23	30.81	0.61	3,548.67
2/27/97				31.43	3,548.22	30.83	0.60	3,548.66
5/19/97				31.61	3,548.04	31.04	0.57	3,548.45
8/19/97				31.44	3,548.21	31.01	0.43	3,548.52
1/5/98				31.02	3,548.63	30.80	0.22	3,548.79
5/26/98				30.74	3,548.91	30.67	0.07	3,548.96
4/7/99				31.03	3,548.62	30.85	0.18	3,548.75
8/13/99				29.77	3,549.88	29.75	0.02	3,549.89
12/14/99				29.48	3,550.17	29.45	0.03	3,550.19
11/14/95	WP-14	3,581.81	48.30	40.75	3,541.06			3,541.06
1/24/96				40.85	3,540.96			3,540.96
4/2/96				40.90	3,540.91			3,540.91
9/26/96				41.00	3,540.81			3,540.81
1/28/97				41.14	3,540.67			3,540.67
2/27/97				41.13	3,540.68			3,540.68
5/19/97				40.90	3,540.91			3,540.91
8/19/97				40.62	3,541.19			3,541.19
1/5/98				41.31	3,540.50			3,540.50
5/26/98				41.76	3,540.05	41.75	0.01	3,540.06
4/7/99				42.7	3,539.11	42.65	0.05	3,539.15
8/13/99				42.05	3,539.76			3,539.76
10/28/99				41.85	3,539.96			3,539.96
12/14/99				41.9	3,539.91			3,539.91
11/14/95	WP-15	3,582.27	35.10	33.60	3,548.67			3,548.67
1/24/96				33.16	3,549.11	32.96	0.20	3,549.26
4/2/96				34.30	3,547.97	33.95	0.35	3,548.22
9/26/96				33.40	3,548.87	33.20	0.20	3,549.02
1/28/97				33.49	3,548.78	33.10	0.39	3,549.06

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ARCADIS GERAGHTY&MILLER

Table 1F. Historical Summary of Groundwater Elevation Data, Warren Monument,
New Mexico, Warren Petroleum, Inc.

Date	Well I.D.	Measuring Point Elevation (ft AMSL)	Total Depth of Well (ft bTOC)	Depth to Water (ft bTOC)	Measured Groundwater Elevation (ft AMSL)	Depth to Product (ft bTOC)	Measured Product Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)
2/27/97	WP-15			33.47	3,548.80	33.09	0.38	3,549.08
5/19/97	(cont'd)			33.58	3,548.69	33.15	0.43	3,549.00
8/19/97				33.12	3,549.15	33.11	0.01	3,549.16
1/5/98				33.58	3,548.69	33.21	0.37	3,548.96
5/26/98				33.42	3,548.85	33.08	0.34	3,549.10
4/7/99				33.4	3,548.87	33.05	0.35	3,549.12
8/13/99				33.4	3,548.87	33.15	0.25	3,549.05
12/14/99				33.35	3,548.92	33.00	0.35	3,549.17

ft AMSL Feet
Above Mean Sea Level

G:\PROJECT\DWG\YOK633005\GWL\SUM.XLS\WATER LEVEL DATA

ARCADIS GERAGHTY & MILLER

Table 2A. Summary of Groundwater Quality Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	Chlorides (mg/L)	TDS (mg/L)	Sulfate (mg/L)
10/31/95	WP-6	620	ND	880	180	1,680	2,100	5,271	53
12/20/95		290	ND	320	70	680	1,900	5,259	28
02/19/96		610	ND	630	ND	1,240	1,500	4,718	21
07/11/96		280	25	450	42	797	1,520	4,724	34
10/11/96		280	ND	910	500	1,690	1,670	3,678	17
01/17/97		180	ND	580	ND	760	1,500	4,371	268
02/27/97		260	ND	690	ND	950	1,420	4,654	71
05/19/97		NS	NS	NS	NS	NS	NS	NS	NS
08/19/97		NS	NS	NS	NS	NS	NS	NS	NS
01/05/98		NS	NS	NS	NS	NS	NS	NS	NS
05/26/98	WP-7	NS	NS	NS	NS	NS	NS	NS	NS
10/28/99		NS	NS	NS	NS	NS	NS	NS	NS
01/08/00		NS	NS	NS	NS	NS	NS	NS	NS
10/31/95		ND	ND	ND	ND	ND	16,000	35,492	5,830
12/20/95		ND	ND	ND	ND	ND	15,000	32,986	5,390
2/19/96		ND	ND	1	ND	1	16,500	36,587	6,160
7/11/96		ND	ND	ND	1.1	1.1	15,200	34,522	6,270
10/11/96		ND	ND	ND	ND	ND	15,200	33,712	5,720
1/17/97		ND	ND	ND	ND	ND	15,200	30,385	3,510
2/27/97		ND	ND	ND	ND	ND	15,200	34,468	6,170
5/19/97		ND	ND	ND	ND	ND	16,200	34,470	5,160
8/19/97		ND	ND	ND	ND	ND	6,870	16,781	3,350
1/5/98		ND	ND	ND	ND	ND	9,300	26,116	6,900
5/26/98		ND	ND	ND	ND	ND	12,700	NA	8,800
10/28/99		ND	ND	ND	ND	ND	11,800	30,800	7,080
1/8/00		ND	ND	ND	ND	ND	11,700	28,600	7,560

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ARCADIS GERAGHTY & MILLER

Table 2A. Summary of Groundwater Quality Data, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	Chlorides (mg/L)	TDS (mg/L)	Sulfate (mg/L)
12/20/95	WP-13	5,100	ND	170	ND	5,270	2,300	5,387	11
2/19/96		5,700	ND	150	ND	5,850	1,150	3,495	5
7/11/96		3,600	ND	130	ND	3,730	975	3,229	13
10/11/96		3,400	ND	500	320	4,220	975	3,027	9
1/17/97		2,700	63	700	140	3,603	487	2,207	15
2/27/97		NS	NS	NS	NS	NS	NS	NS	NS
5/19/97		NS	NS	NS	NS	NS	NS	NS	NS
8/19/97		NS	NS	NS	NS	NS	NS	NS	NS
1/5/98		NS	NS	NS	NS	NS	NS	NS	NS
5/26/98		NS	NS	NS	NS	NS	NS	NS	NS
10/28/99	WP-14	NS	NS	NS	NS	NS	NS	NS	NS
1/8/00		NS	NS	NS	NS	NS	NS	NS	NS
12/20/95		120	ND	2	21	143	7,750	15,888	1,170
2/19/96		81	ND	1	ND	82	10,000	21,366	2,670
7/11/96		27	ND	ND	ND	27	12,200	25,570	3,040
10/11/96		29	1.4	6.1	12	49	11,500	19,754	29
1/17/97		ND	ND	ND	ND	ND	11,700	24,483	3,110
2/27/97		27	1.5	1.6	1.6	31.7	11,700	25,463	3,780
5/19/97		32	1.4	1.3	ND	34.7	12,400	25,009	2,740
8/19/97		65	ND	55	55	175	10,600	23,619	3,790
1/5/98	WP-15	30	ND	2.9	6.5	39.4	12,000	25,345	3,500
5/26/98		55	ND	60	46	161	13,100	NA	3,840
10/28/99		11	ND	15	30.8	56.8	11,400	24,500	3,460
1/8/00		10	1	17	24	52	11,200	24,000	3,060

ND Not Sampled

NS Not Sampled

µg/L Micrograms per liter.

mg/L Milligrams per liter.

G:\PROJECT\DYNEGY\OK532005\TAB2A.XLS\WATER QUALITY DATA

ARCADIS GERAGHTY & MILLER

Table 2B. Summary of Groundwater Quality Data, Total Metals, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Silver (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Mercury (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Lead (mg/L)	Selenium (mg/L)
2/27/97	WP-1	ND	ND	1.3	120	ND	0.02	28	ND	5	39	ND	ND
5/19/97		ND	ND	2.6	676	ND	0.15	134	ND	28	90.3	0.1	ND
8/19/97		ND	ND	1.5	346	ND	0.03	32	ND	10	44.8	ND	ND
1/5/98		ND	ND	0.8	122	ND	0.03	16	ND	7	26.3	ND	ND
5/26/98		ND	ND	0.7	61.6	ND	ND	4.45	ND	4.0	22.4	ND	ND
10/28/99		ND	0.0519	7.32	123	ND	ND	3.56	ND	5.16	70.9	ND	ND
1/18/00		ND	0.0447	4.9	107	ND	ND	5.34	ND	5.63	62.3	ND	ND
2/27/97	WP-5	ND	ND	0.5	508	ND	ND	7.1	ND	56	125	ND	ND
5/19/97		ND	ND	1.26	2330	ND	0.08	69.6	ND	75	249	ND	ND
8/19/97		ND	ND	0.05	278	ND	ND	0.6	ND	49	108	ND	ND
1/5/98		ND	ND	0.21	393	ND	ND	3.0	ND	51	108	ND	ND
5/26/98		ND	ND	0.03	311	ND	ND	0.28	ND	53	120	ND	ND
10/28/99		ND	0.00584	0.0468	432	ND	ND	0.523	ND	56.5	222	ND	0.00755
1/18/00		ND	0.00903	0.0235	496	ND	ND	0.066	ND	79.1	266	ND	ND
2/27/97	WP-6	ND	ND	0.66	189	ND	0.14	22.5	ND	26	134	ND	ND
5/19/97		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/19/97		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/5/98		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/26/98		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/99		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/18/00		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/27/97	WP-7	ND	ND	0.06	909	ND	ND	1.4	ND	123	358	ND	ND
5/19/97		ND	ND	0.52	1350	ND	0.0	14.6	ND	119	377	ND	ND
8/19/97		ND	ND	0.17	1110	ND	ND	4.7	ND	114	381	ND	ND
1/5/98		ND	ND	0.20	634	ND	ND	6.5	ND	70	157	ND	ND
5/26/98		ND	ND	0.045	749	ND	ND	1.68	ND	113	195	ND	ND
10/28/99		ND	0.0247	0.0313	698	ND	0.0415	0.33	0.0014	173	158	ND	0.0142
1/18/00		ND	0.0252	0.0222	650	ND	ND	0.0534	ND	209	145	ND	0.00794

ARCADIS GERAGHTY & MILLER

Table 2B. Summary of Groundwater Quality Data, Total Metals, Warren Monument, New Mexico, Warren Petroleum, Inc.

Date	Well ID	Silver (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Mercury (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Lead (mg/L)	Selenium (mg/L)
2/27/97	WP-14	ND	ND	0.46	890	ND	ND	5.2	ND	78	314	ND	ND
5/19/97		ND	ND	0.68	1160	ND	0.0	6.7	ND	79	325	ND	ND
8/19/97		ND	ND	0.45	859	ND	ND	4.8	ND	69	304	ND	ND
1/5/98		ND	ND	0.36	923	ND	ND	4.6	ND	70	310	ND	ND
5/26/98		ND	ND	0.080	816	ND	ND	2.25	ND	75.0	328	ND	ND
10/28/99		ND	0.00773	0.0338	759	ND	ND	2.63	ND	74.5	323	ND	ND
1/18/00		ND	0.00819	0.0405	633	ND	ND	1.98	ND	71.6	276	ND	ND

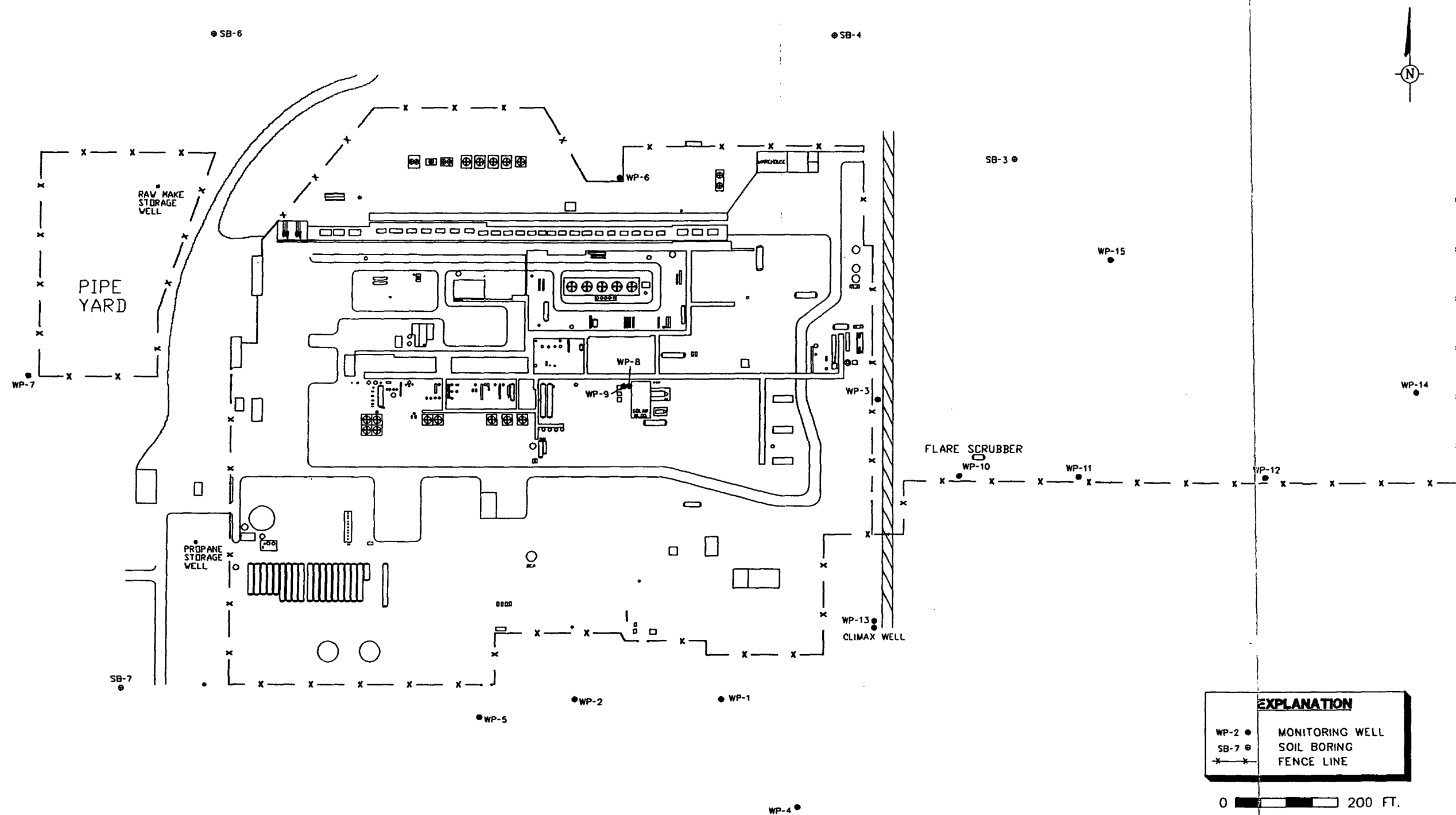
NS Not Sampled

ND Not Detected

µg/L Micrograms per liter.

mg/L Milligrams per liter.

FIGURES



ARCADIS GERAGHTY & MILLER



3100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 564-9900 Fax: (918) 564-9925

SITE MAP WITH SOIL BORINGS AND OBSERVATION WELL LOCATIONS

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER
1

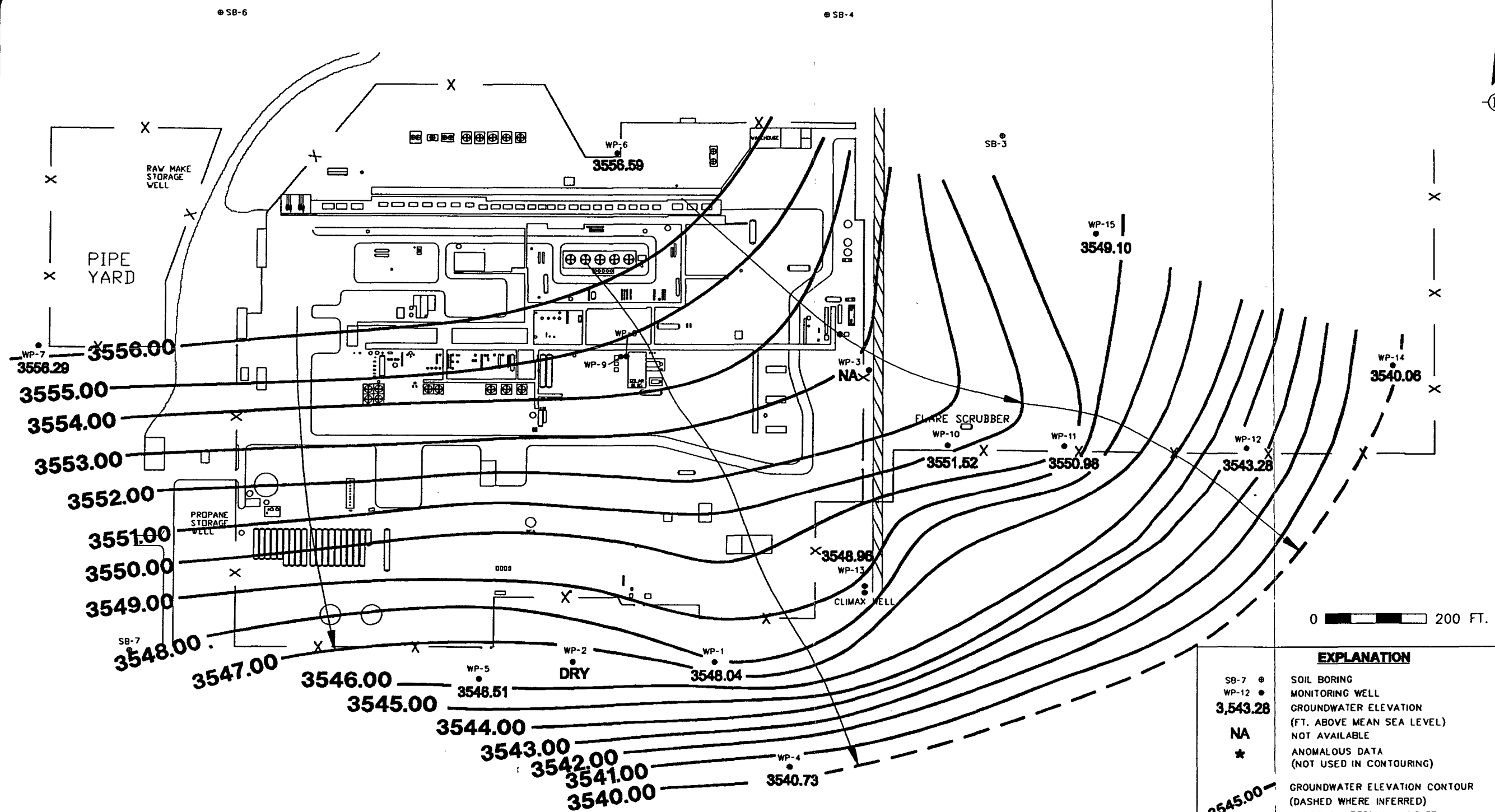
DWG. DATE: 12FEB99

FILE NAME: GW0598

COMPILED BY: JOHN ONEAL

PROJECT MANAGER: JOHN SHONFELT

DRAWN BY: JIM HARBESTON



0 200 FT.

EXPLANATION

- SB-7 • SOIL BORING
- WP-12 • MONITORING WELL
- 3,543.28 GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
- NA NOT AVAILABLE
- * ANOMALOUS DATA (NOT USED IN CONTOURING)
- 3545.00 - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- CONTOUR INTERVAL = 1.0 FT.
- GROUNDWATER FLOW DIRECTION
- X-X- FENCE LINE

NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

ARCADIS GERAGHTY & MILLER



5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 564-9900 Fax: (918) 564-9925

**GROUNDWATER ELEVATION CONTOURS
MAY 26, 1998**

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER
2

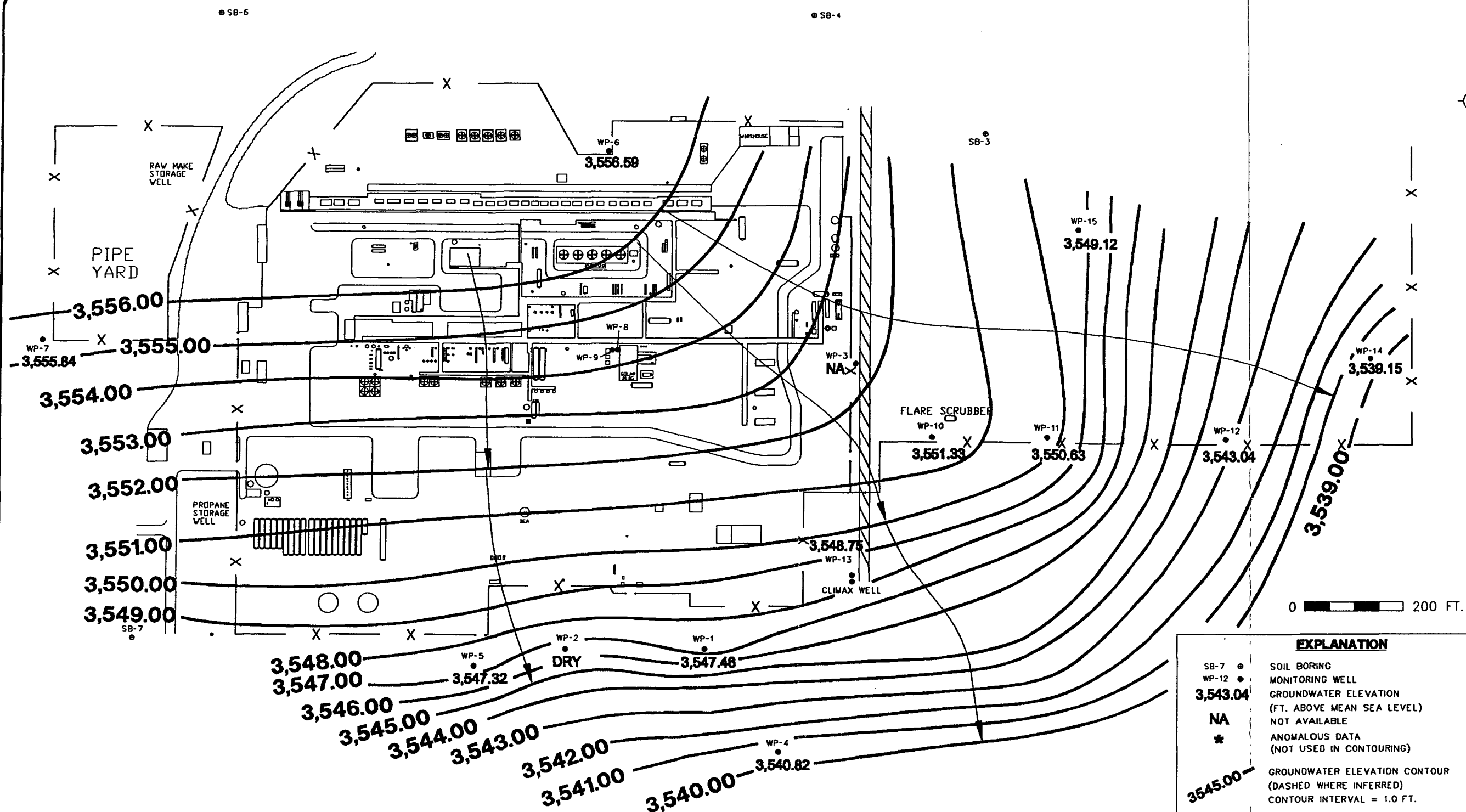
DWG. DATE: 9FEB99

FILE NAME: GW0499

COMPILED BY: JOHN ONEAL

PROJECT MANAGER: JOHN SHONFELT

DRAWN BY: JIM HARBESTON



0 200 FT.

EXPLANATION

- SB-7 • SOIL BORING
- WP-12 • MONITORING WELL
- 3,543.04 • GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
- NA • NOT AVAILABLE
- * • ANOMALOUS DATA (NOT USED IN CONTOURING)
- 3,545.00 - - - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- CONTOUR INTERVAL = 1.0 FT.
- GROUNDWATER FLOW DIRECTION
- X-X- FENCE LINE

NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

ARCADIS GERAGHTY & MILLER



9100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 564-9900 Fax: (918) 564-9925

GROUNDWATER ELEVATION CONTOURS
APRIL 7, 1999

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER
3

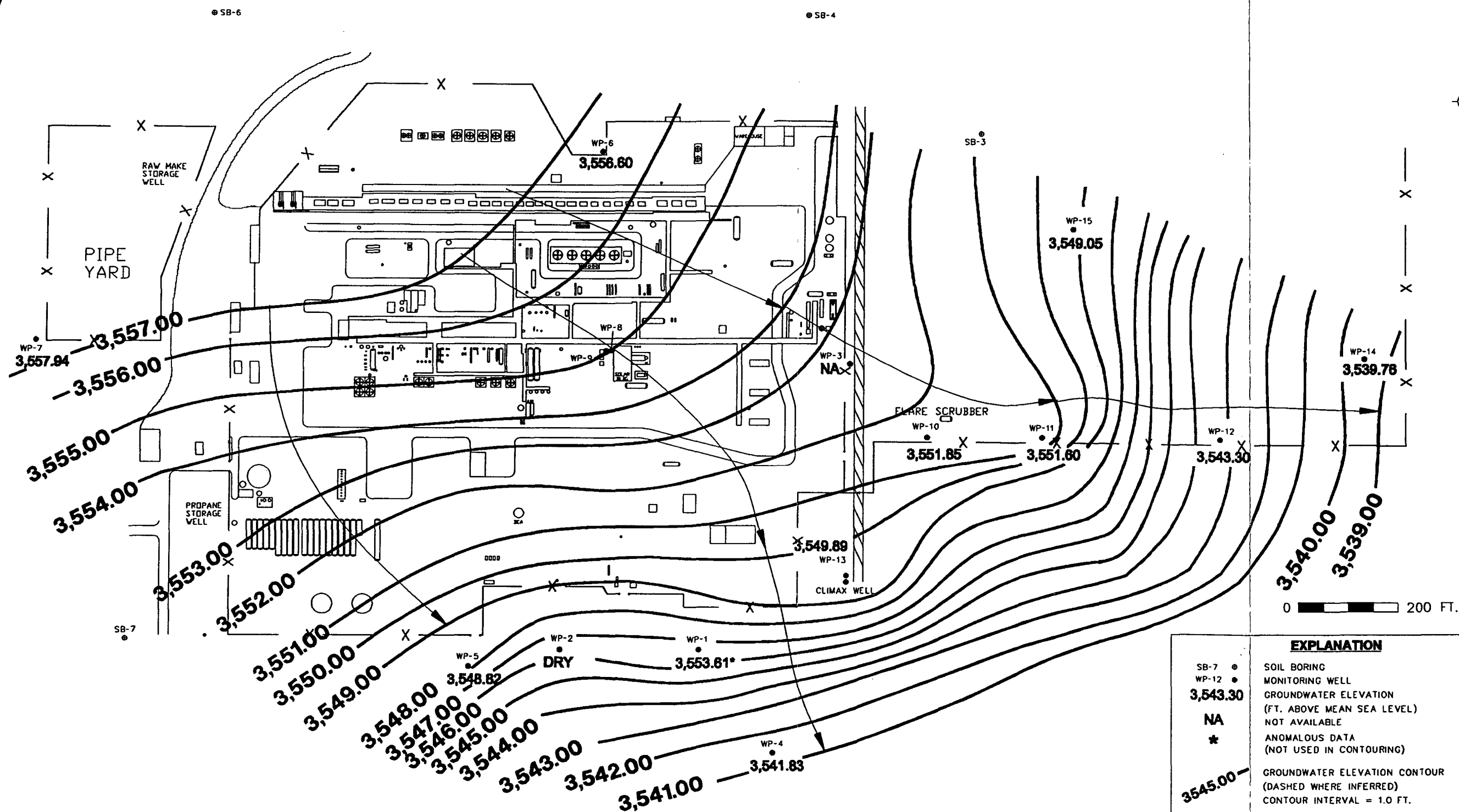
DWG. DATE: 9FEB99

FILE NAME: GW0899

COMPILED BY: JOHN ONEAL

PROJECT MANAGER: JOHN SHONFELT

DRAWN BY: JIM HARBESTON



NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

EXPLANATION	
SB-7	SOIL BORING
WP-12	MONITORING WELL
3,543.30	GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
NA	NOT AVAILABLE
*	ANOMALOUS DATA (NOT USED IN CONTOURING)
3545.00 -	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	CONTOUR INTERVAL = 1.0 FT.
	GROUNDWATER FLOW DIRECTION
-x-x-	FENCE LINE

ARCADIS GERAGHTY & MILLER



3100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 664-9900 Fax: (918) 664-9925

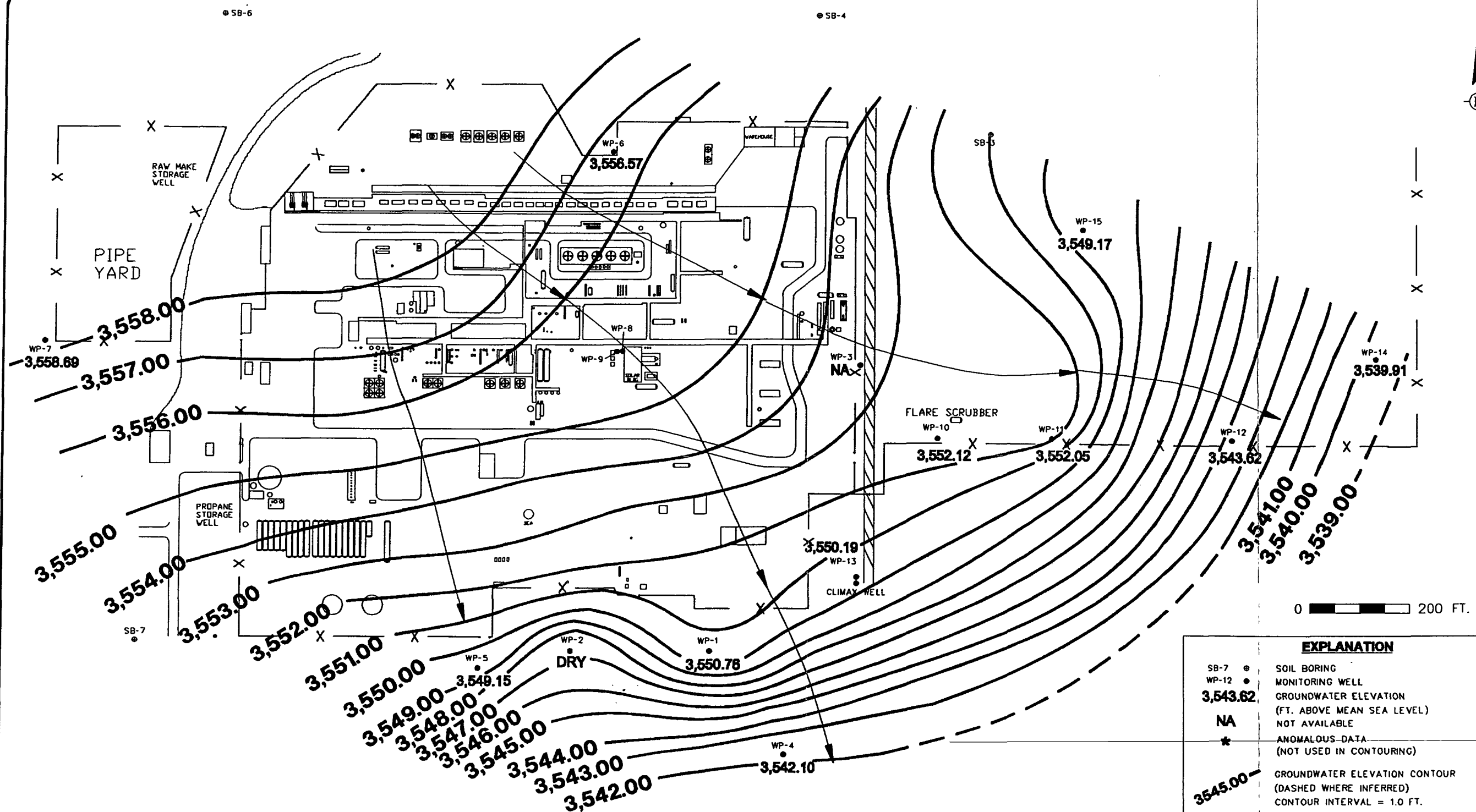
GROUNDWATER ELEVATION CONTOURS AUGUST 13, 1999

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER

4



NOTE:
WELLS WP-8 AND WP-9 WERE CONVERTED TO CATHODIC PROTECTION WELLS.

EXPLANATION	
SB-7	SOIL BORING
WP-12	MONITORING WELL
3,543.62	GROUNDWATER ELEVATION (FT. ABOVE MEAN SEA LEVEL)
NA	NOT AVAILABLE
*	ANOMALOUS DATA (NOT USED IN CONTOURING)
3545.00 -	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
→	GROUNDWATER FLOW DIRECTION
-X-X-	FENCE LINE

ARCADIS GERAGHTY & MILLER



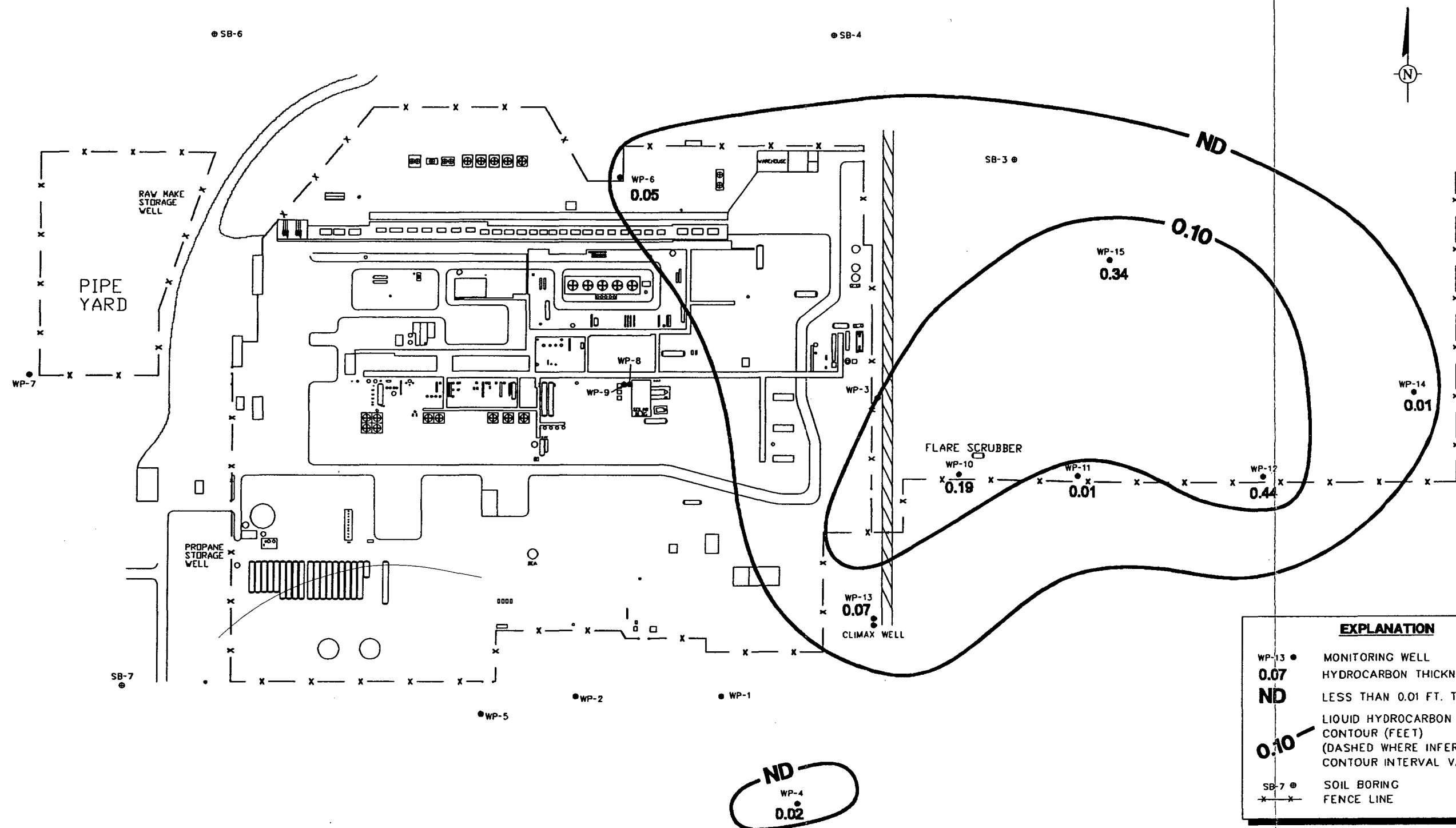
3100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 564-9900 Fax: (918) 564-9925

GROUNDWATER ELEVATION CONTOURS DECEMBER 14, 1999

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER
5



**APPROXIMATE EXTENT OF LIQUID HYDROCARBONS
MAY 26, 1998**

WARREN PETROLEUM
MONUMENT, NEW MEXICO

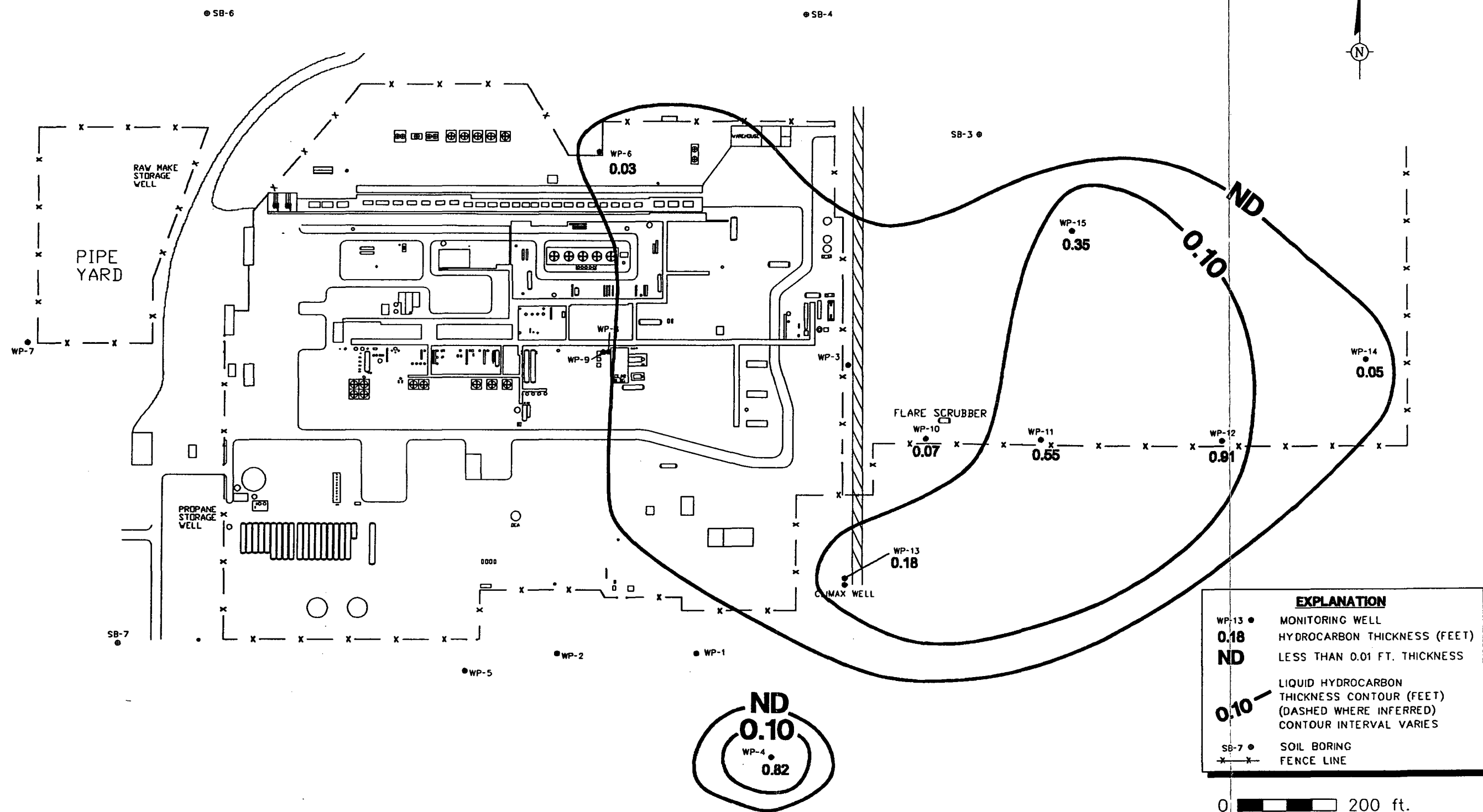
ARCADIS GERAGHTY & MILLER

5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 584-9900 Fax: (918) 584-9925



PROJECT NUMBER
OK000532.0005

FIGURE NUMBER
6



ARCADIS GERAGHTY & MILLER



5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 554-9900 Fax: (918) 564-9925

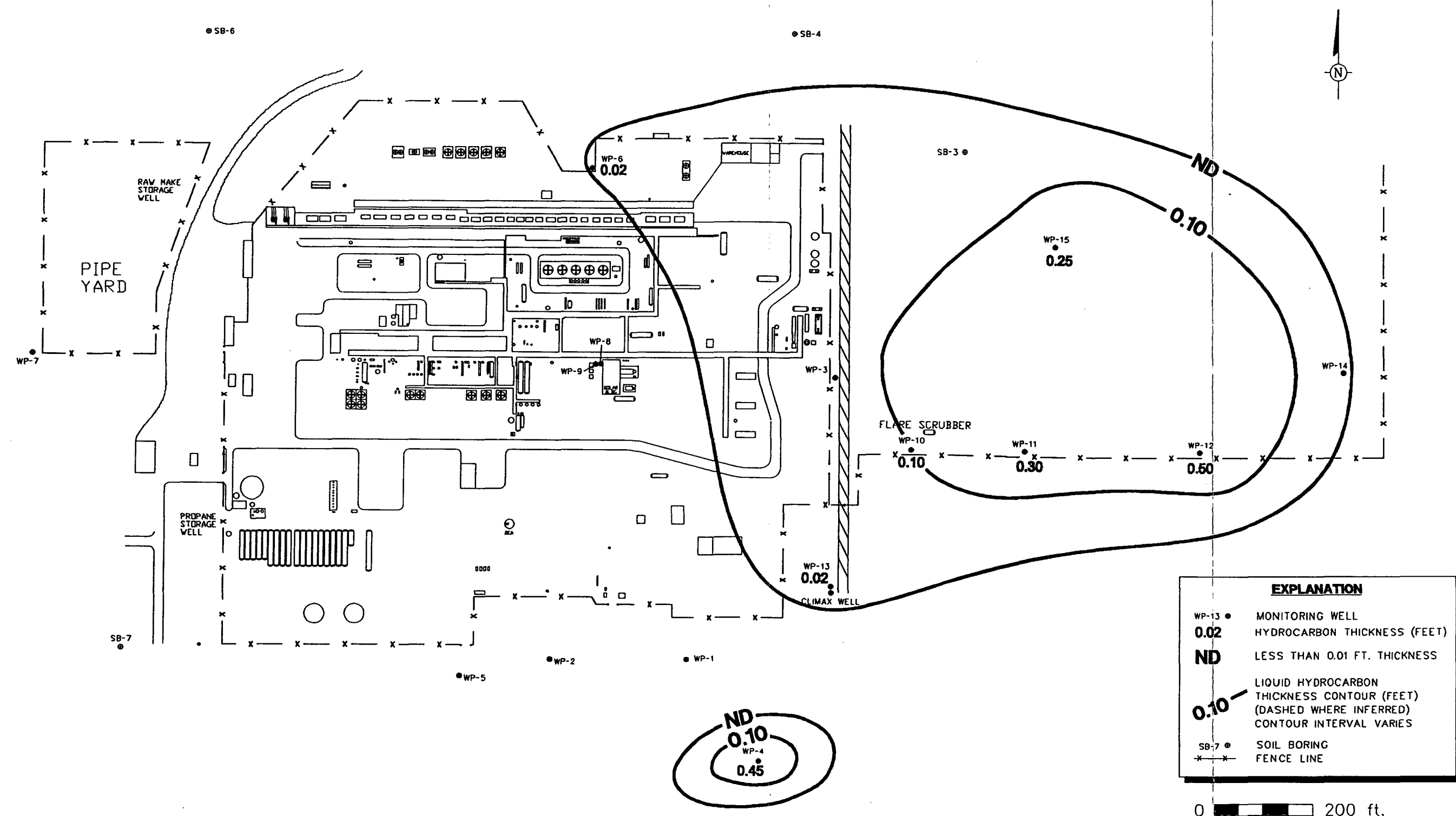
**APPROXIMATE EXTENT OF LIQUID HYDROCARBONS
APRIL 7, 1999**

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER

7



ARCADIS GERAGHTY & MILLER

5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 554-9900 Fax: (918) 664-9925

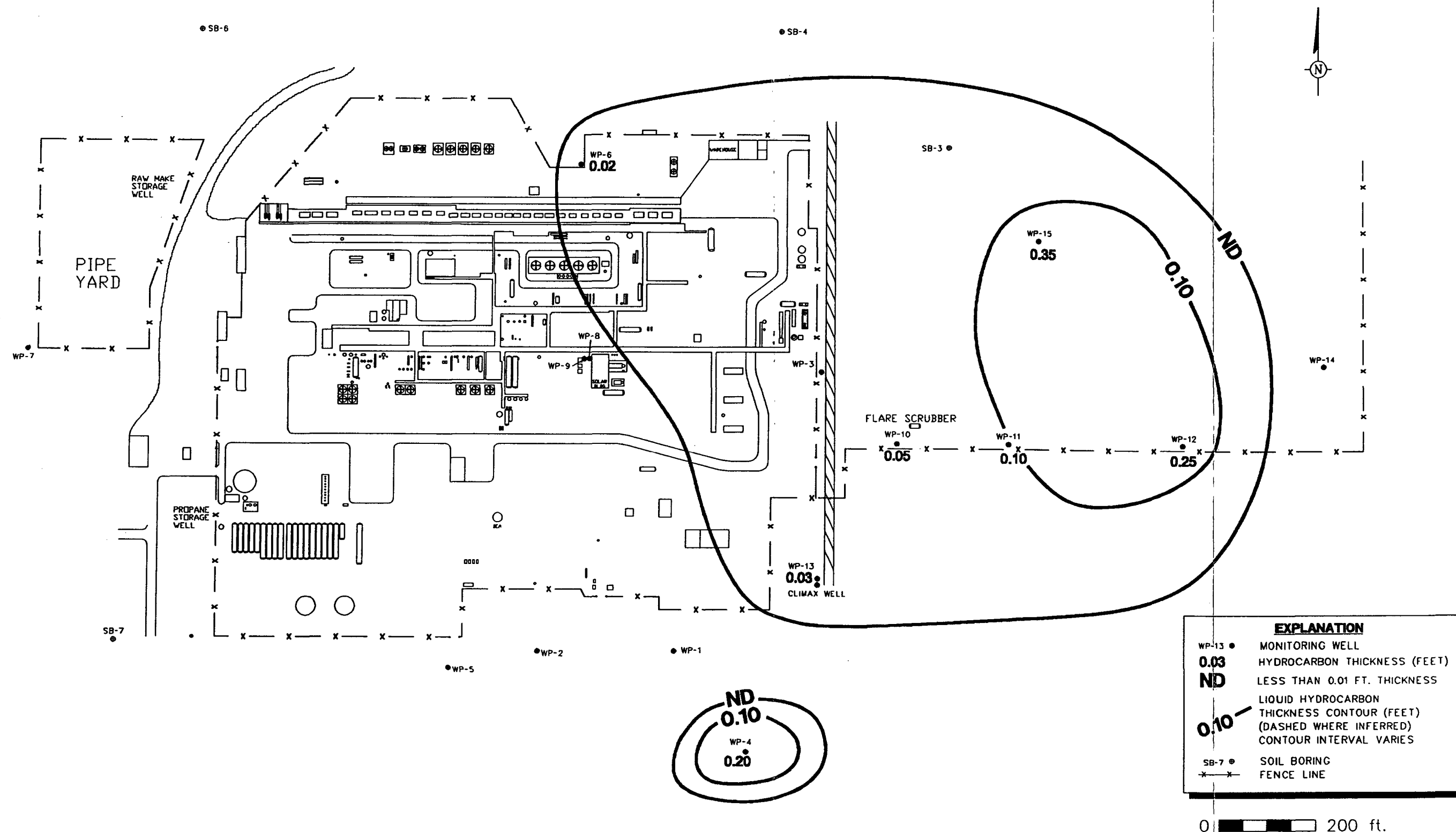
APPROXIMATE EXTENT OF LIQUID HYDROCARBONS AUGUST 13, 1999

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER

8



ARCADIS GERAGHTY & MILLER



5100 EAST SKELLY DRIVE SUITE 1000
TULSA, OKLAHOMA 74135
Tel: (918) 664-9900 Fax: (918) 664-9925

APPROXIMATE EXTENT OF LIQUID HYDROCARBONS DECEMBER 14, 1999

WARREN PETROLEUM
MONUMENT, NEW MEXICO

PROJECT NUMBER
OK000532.0005

FIGURE NUMBER

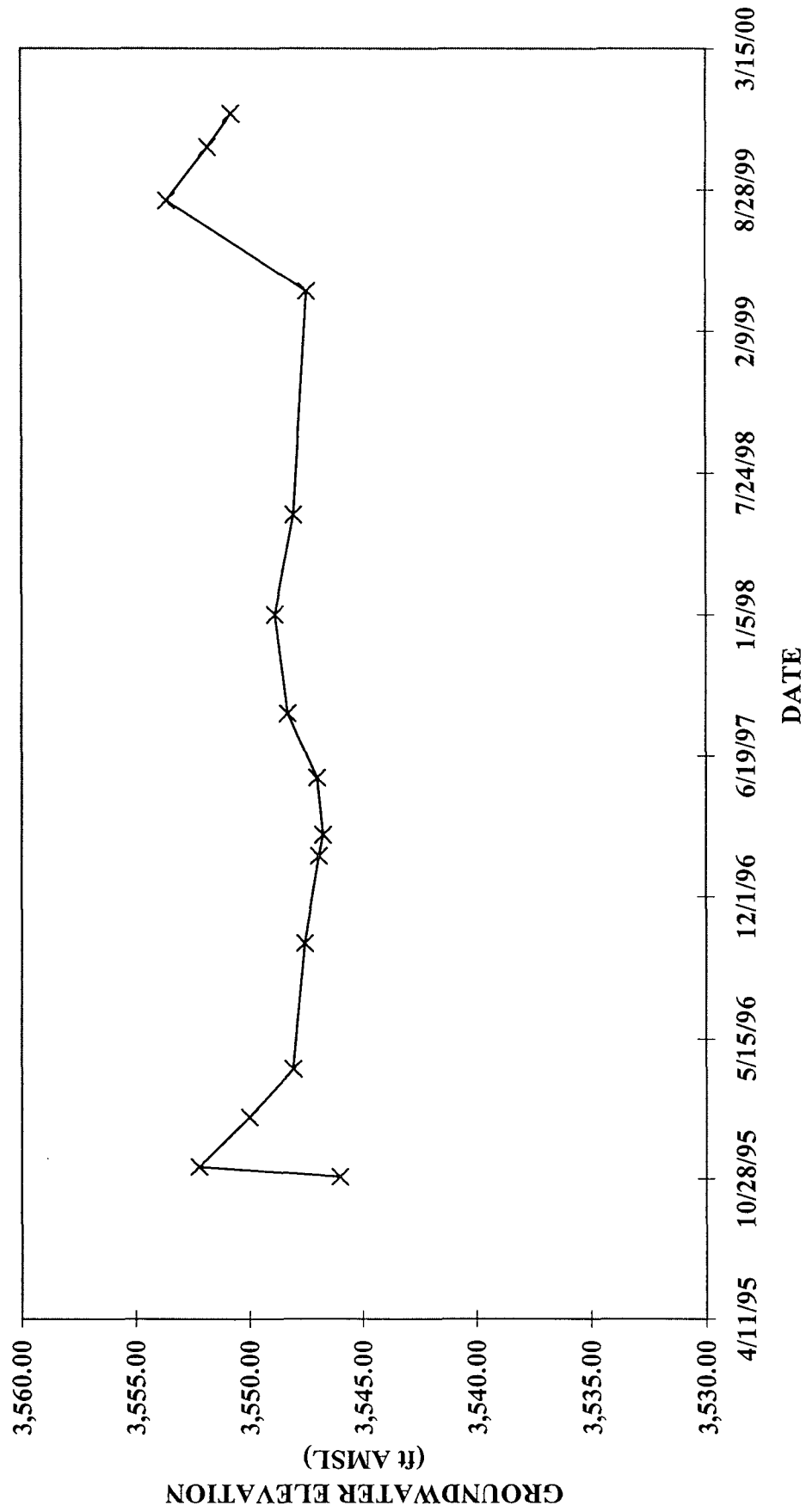
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APPENDIX A



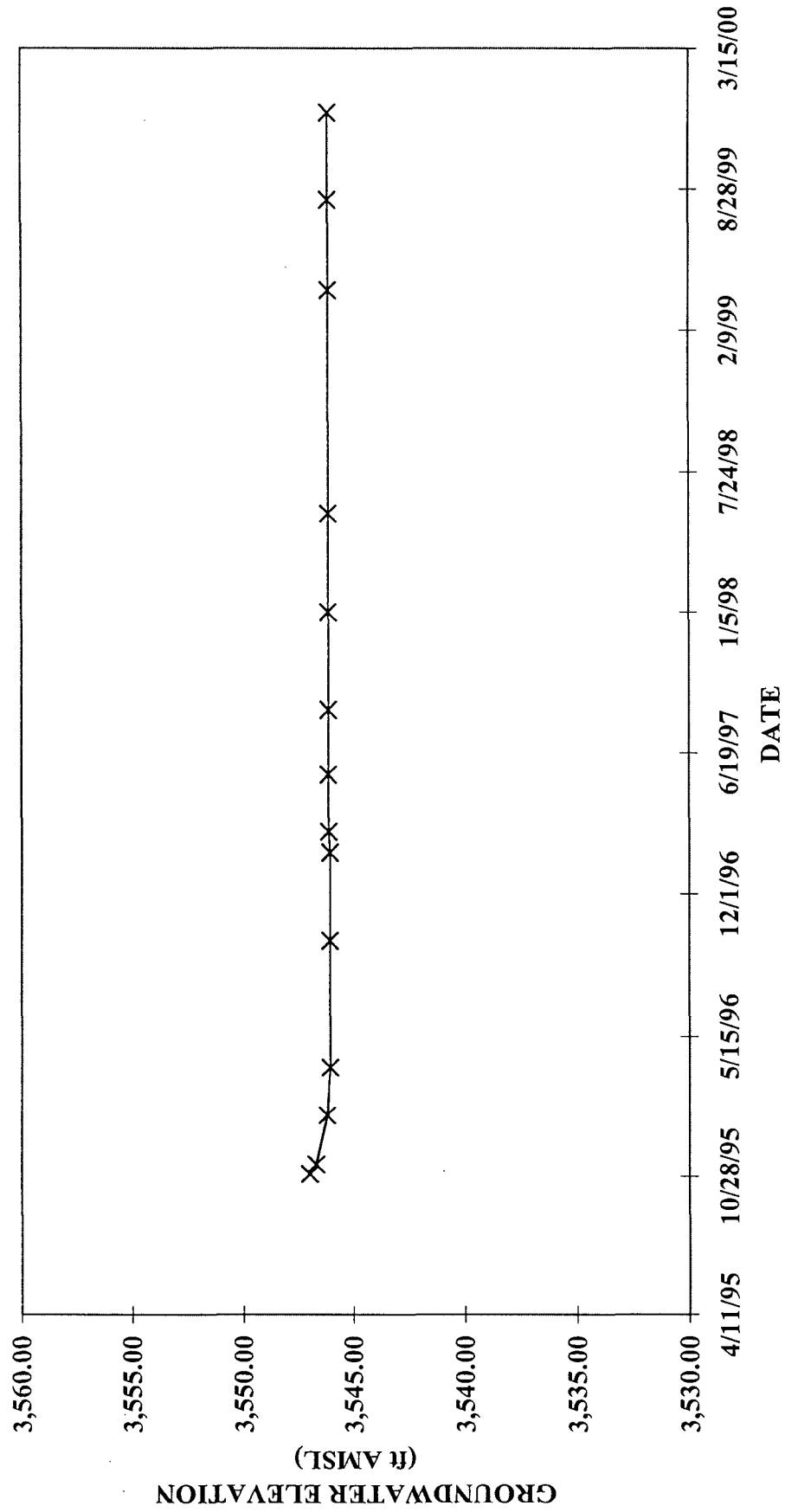
APPENDIX A

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



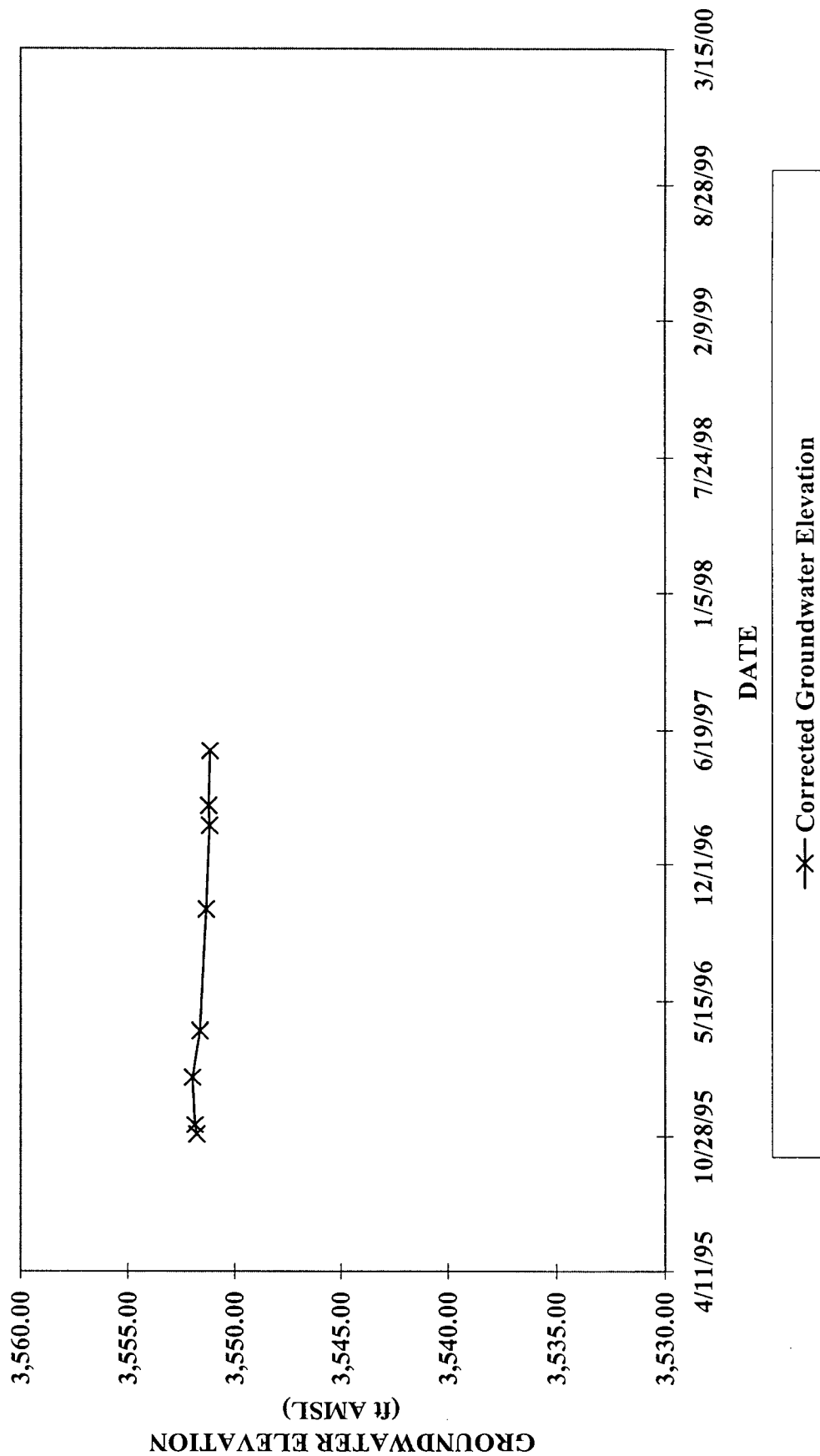
—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-2

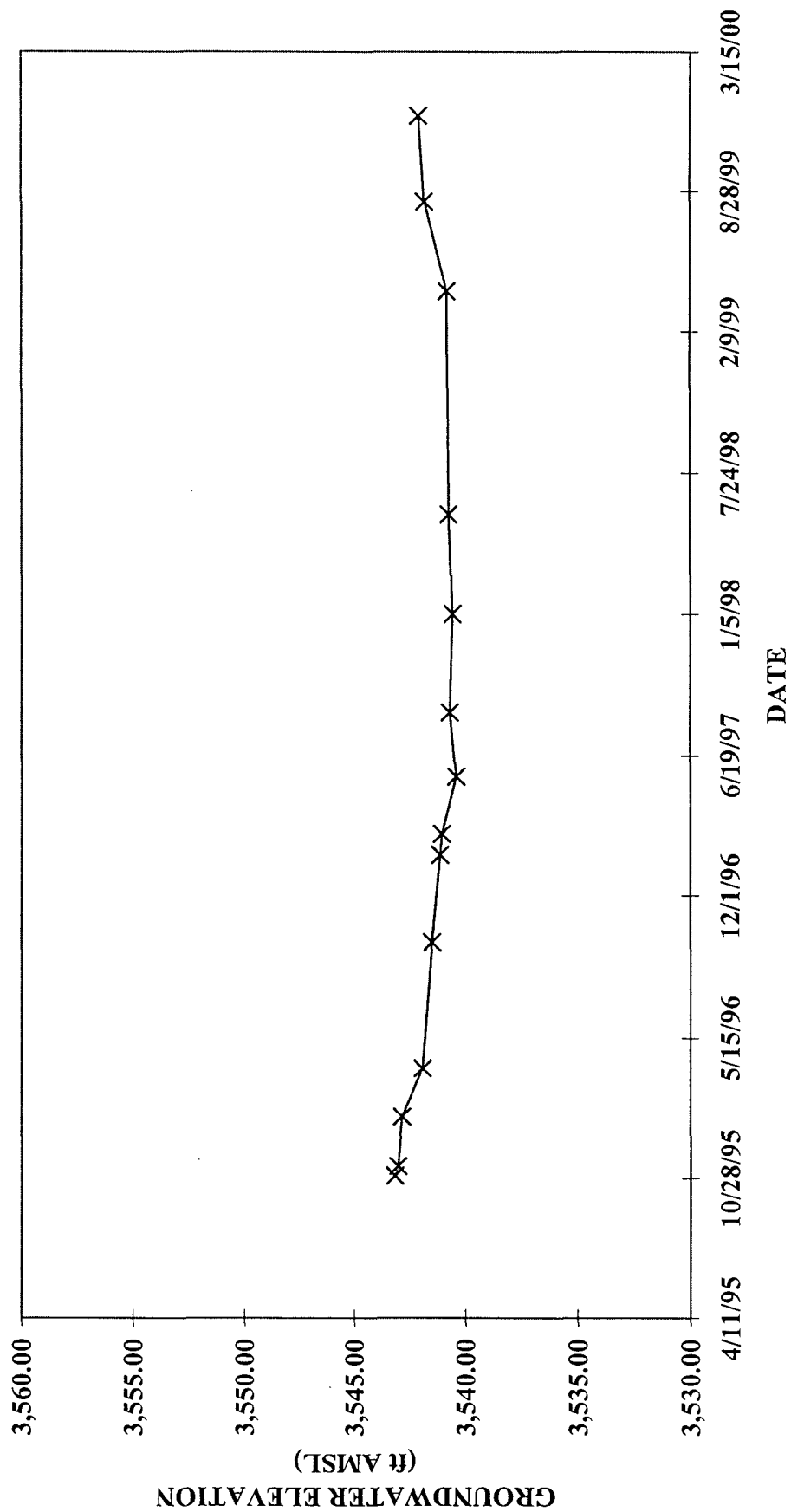


—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-3

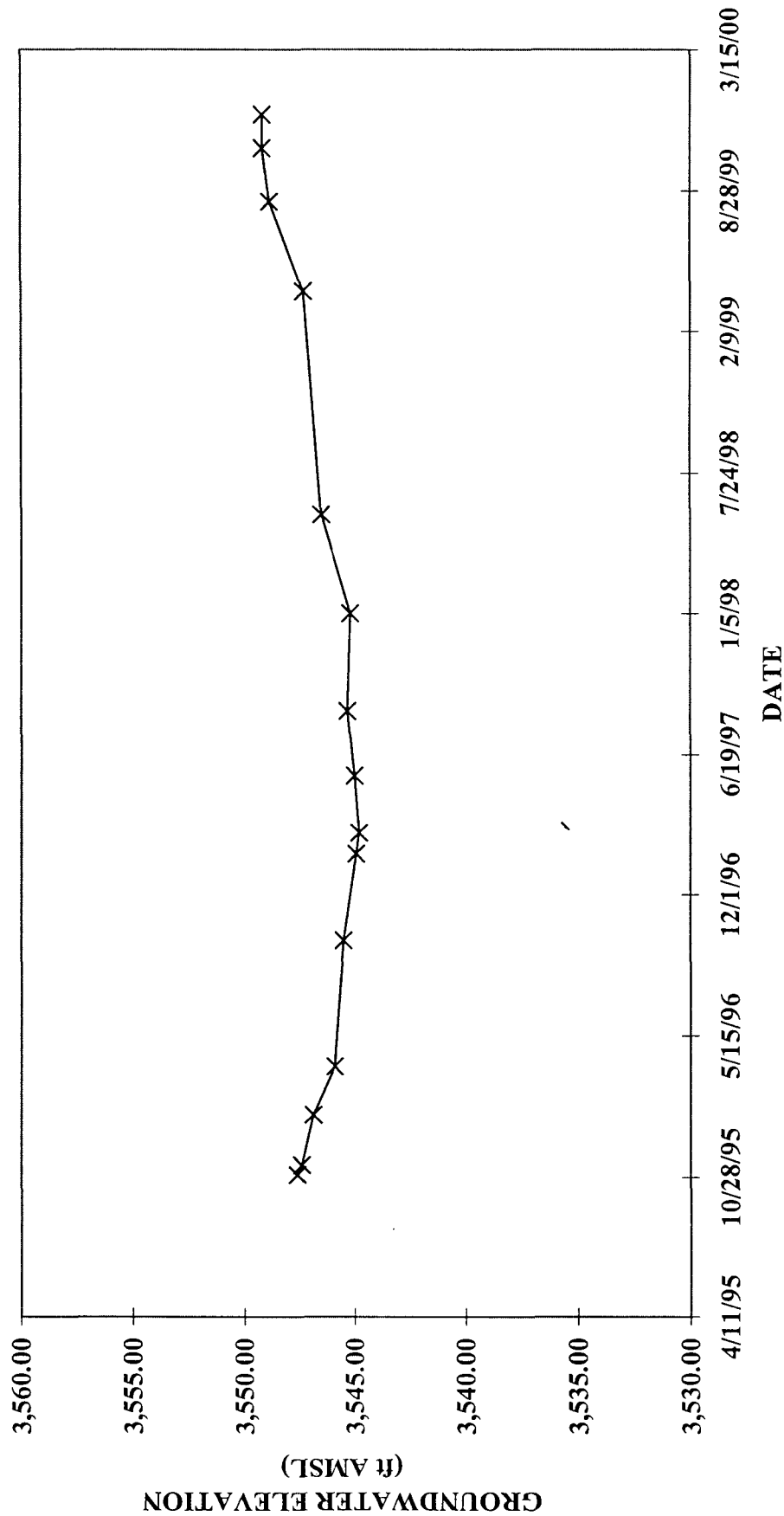


GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-4



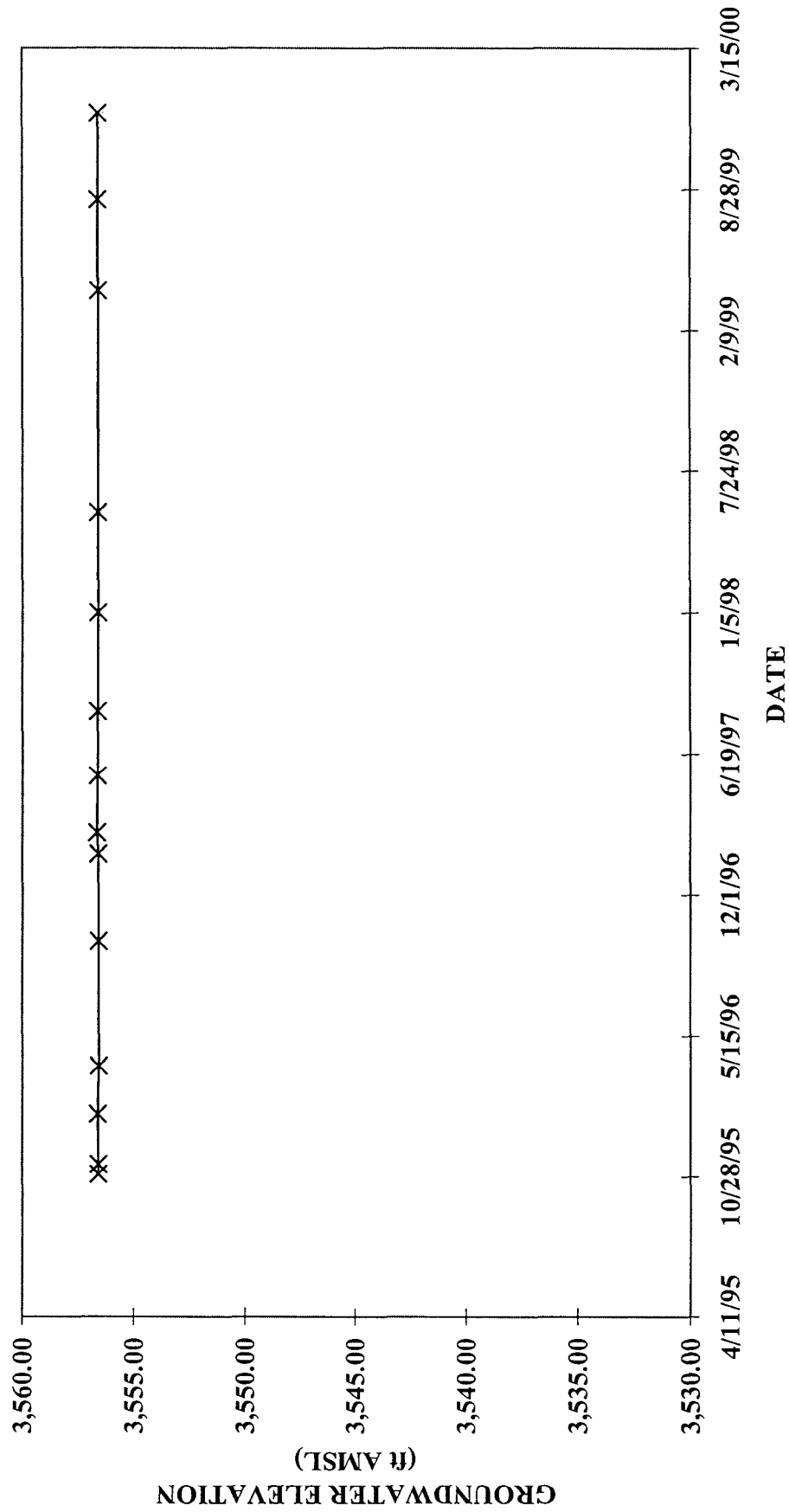
—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



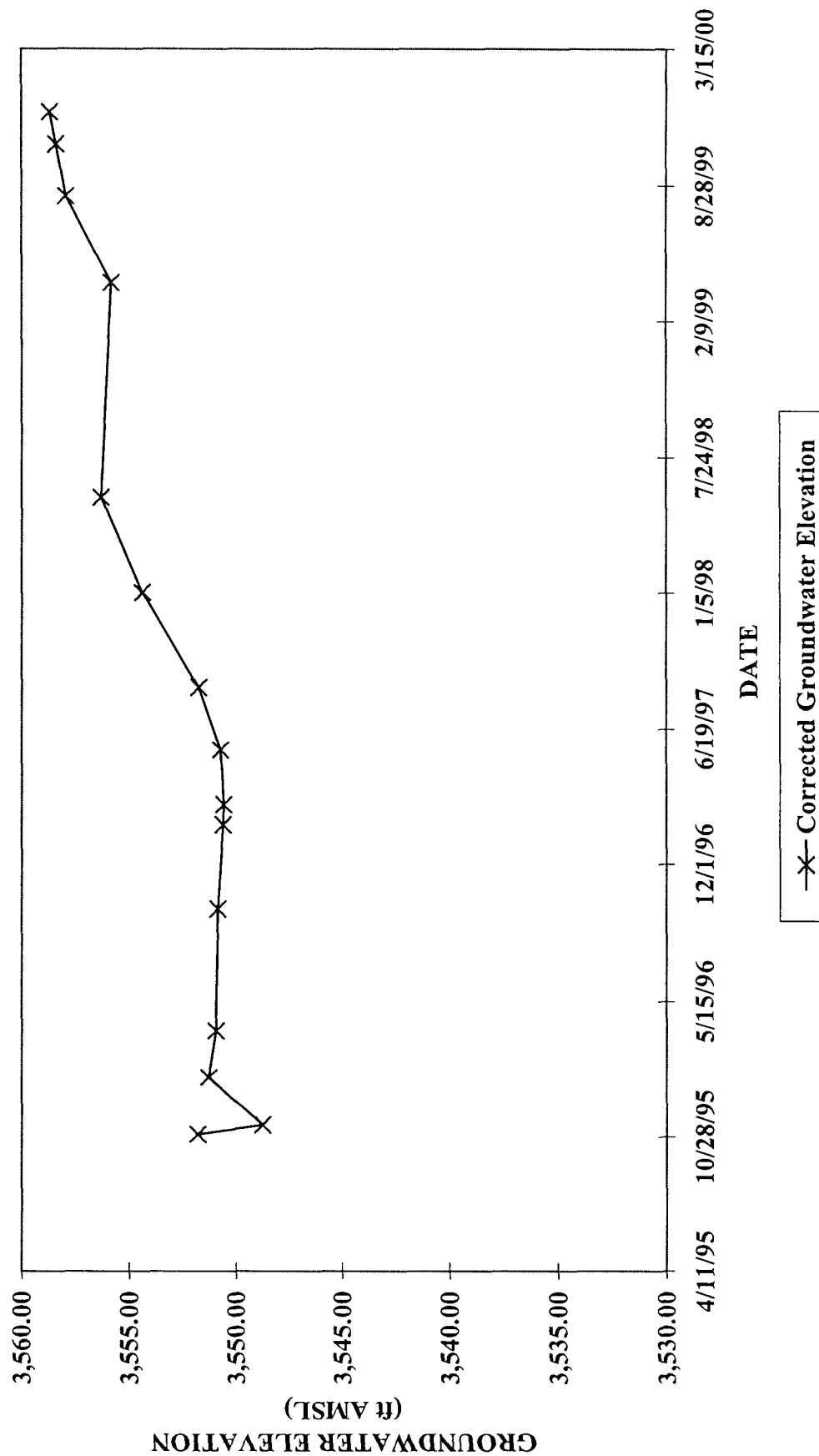
—X— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-6

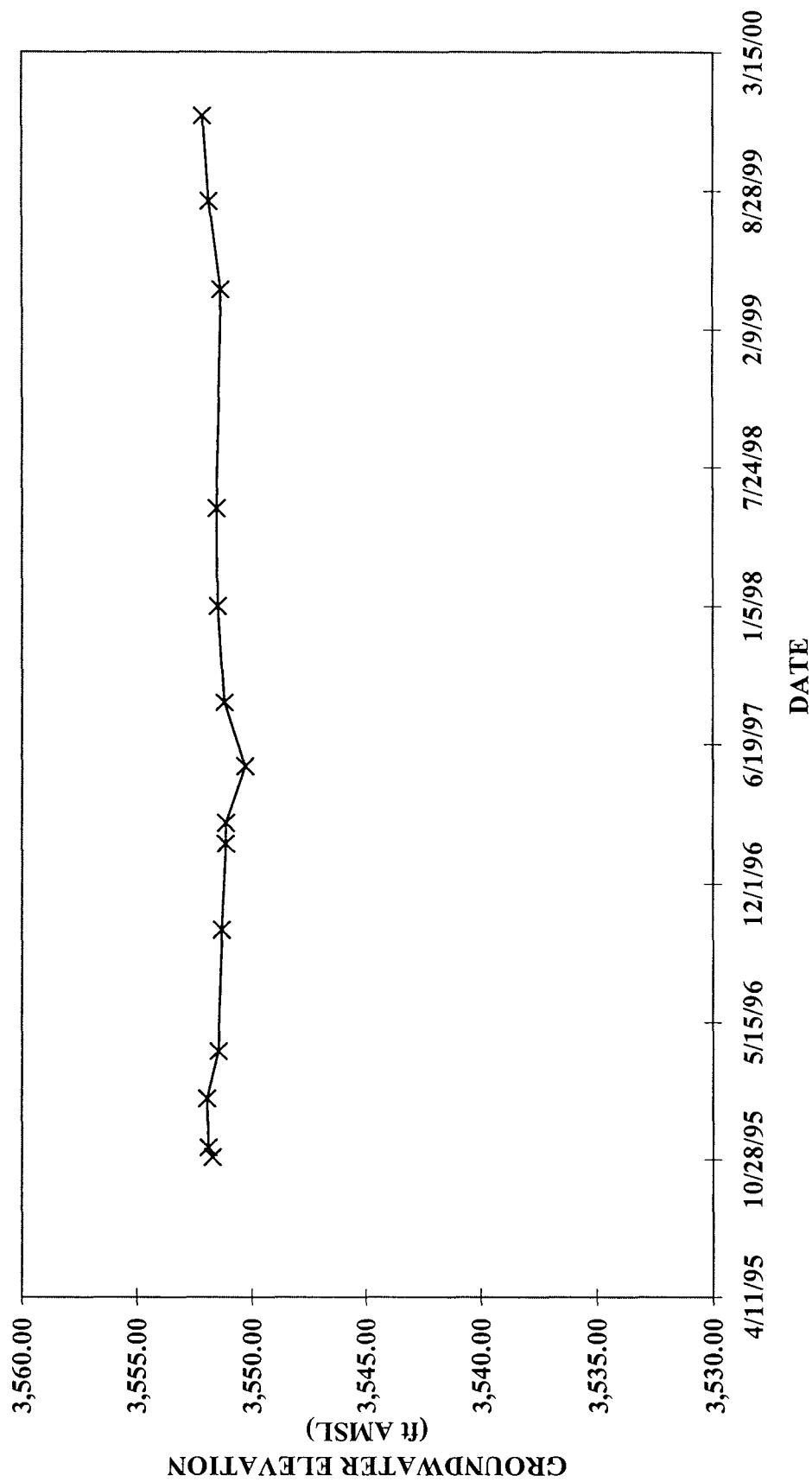


—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7

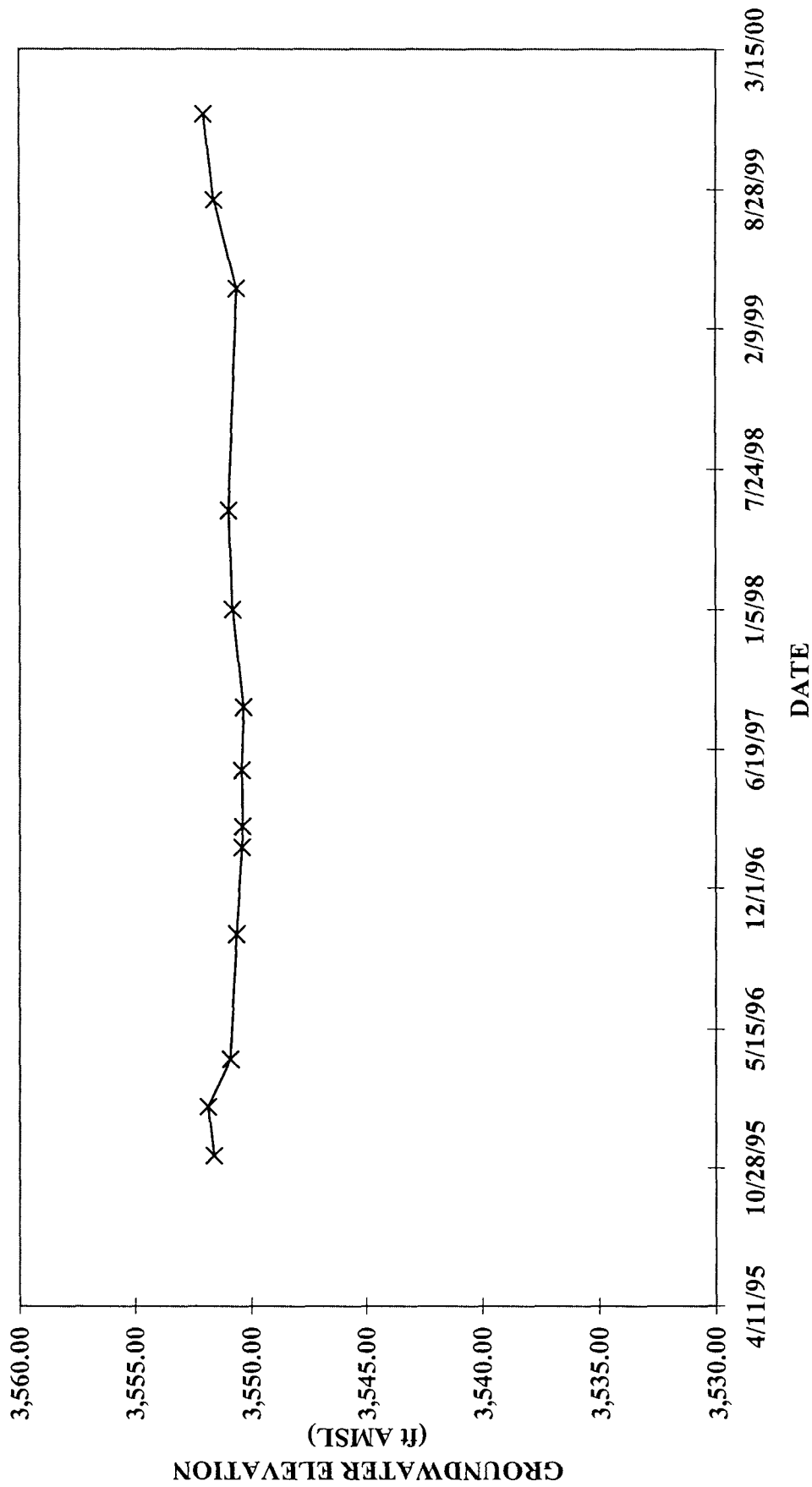


GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-10



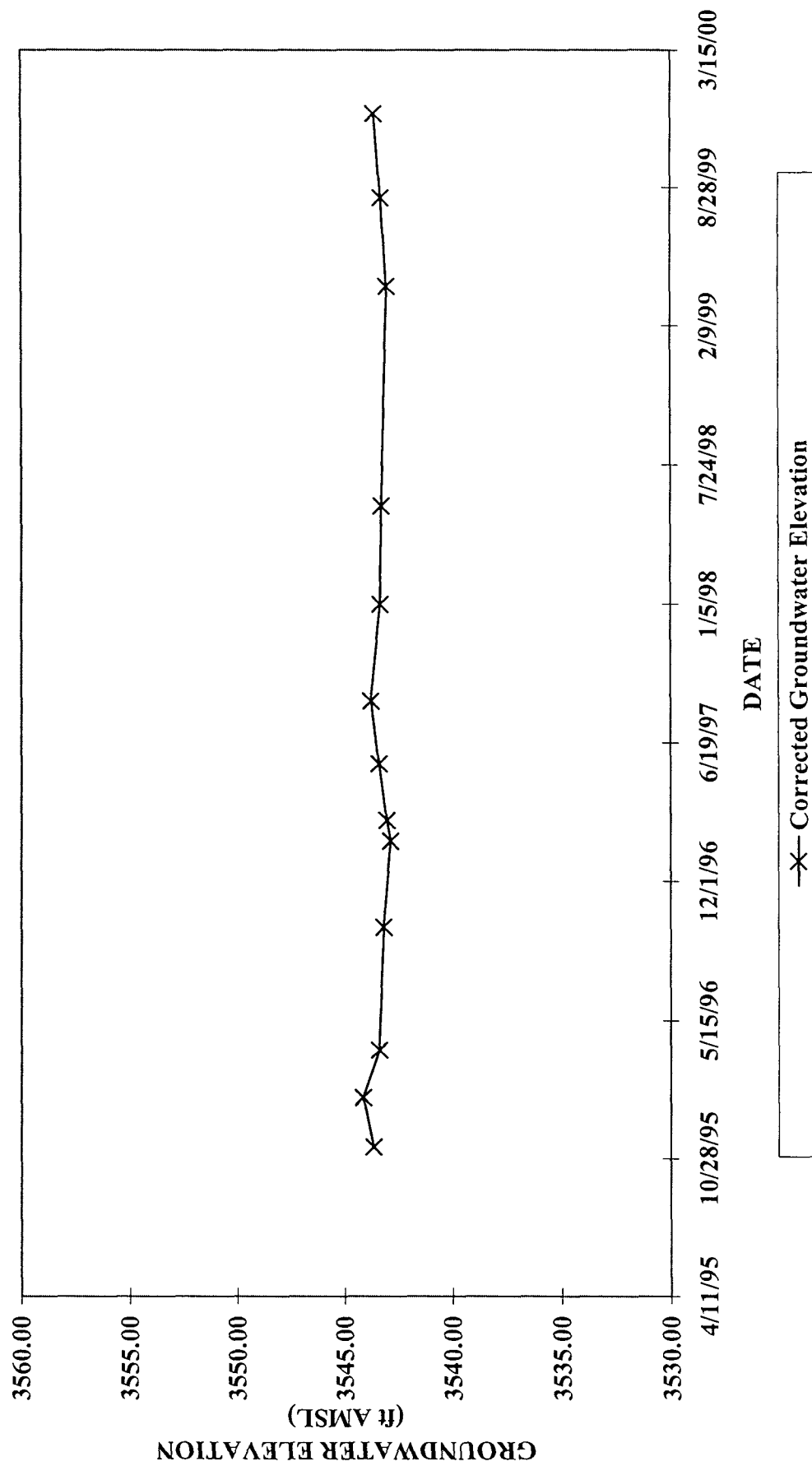
—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-11

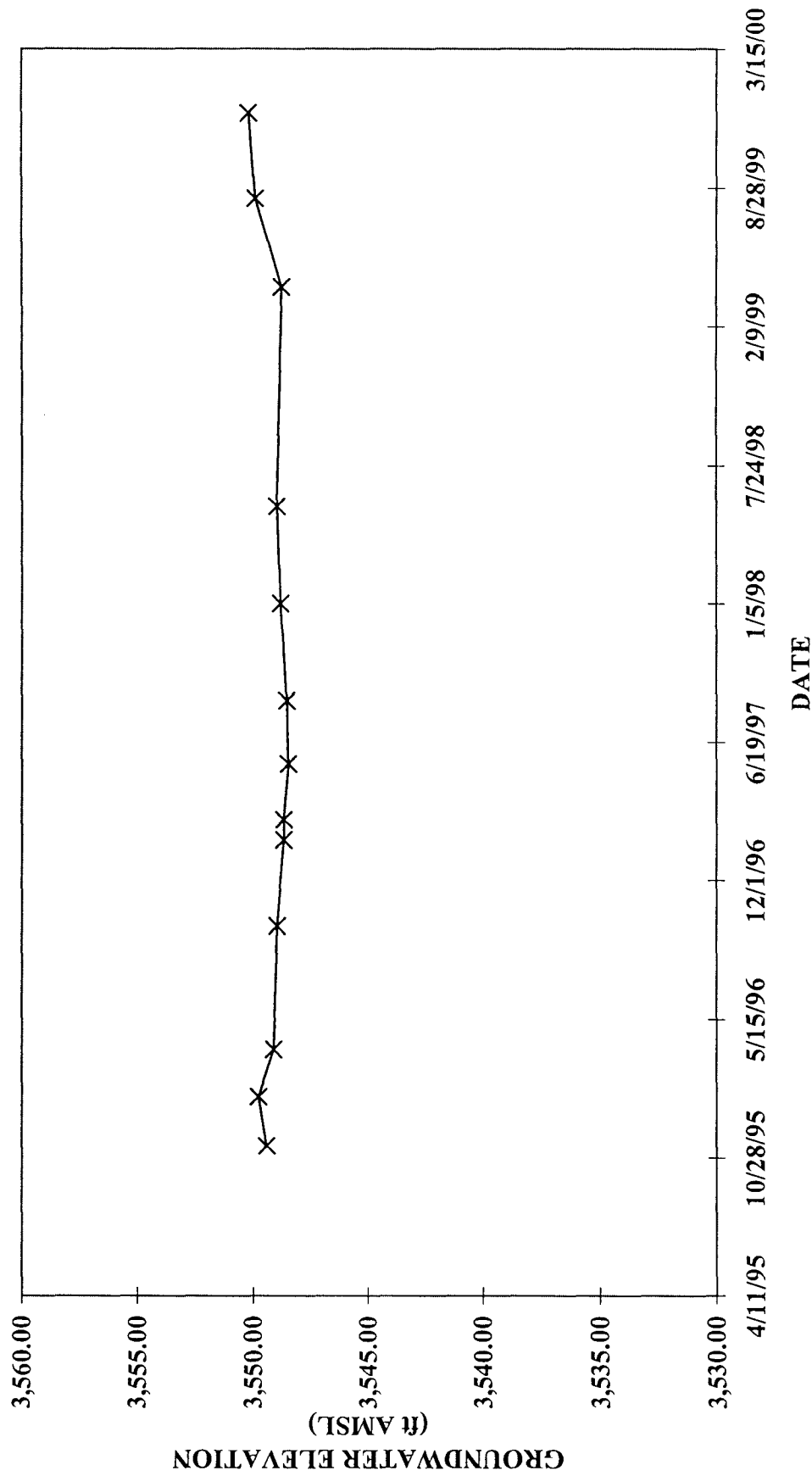


—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-12

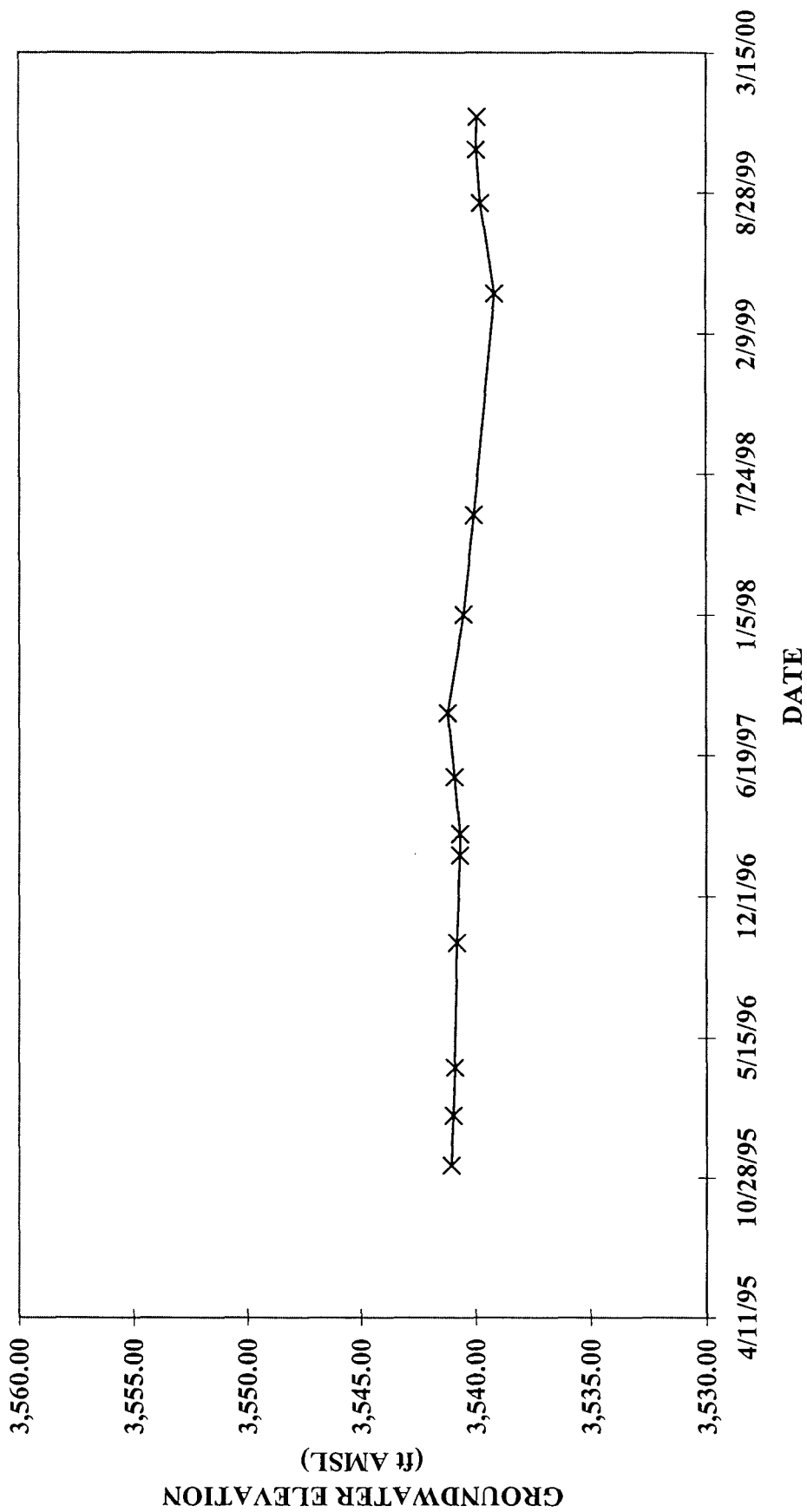


GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-13



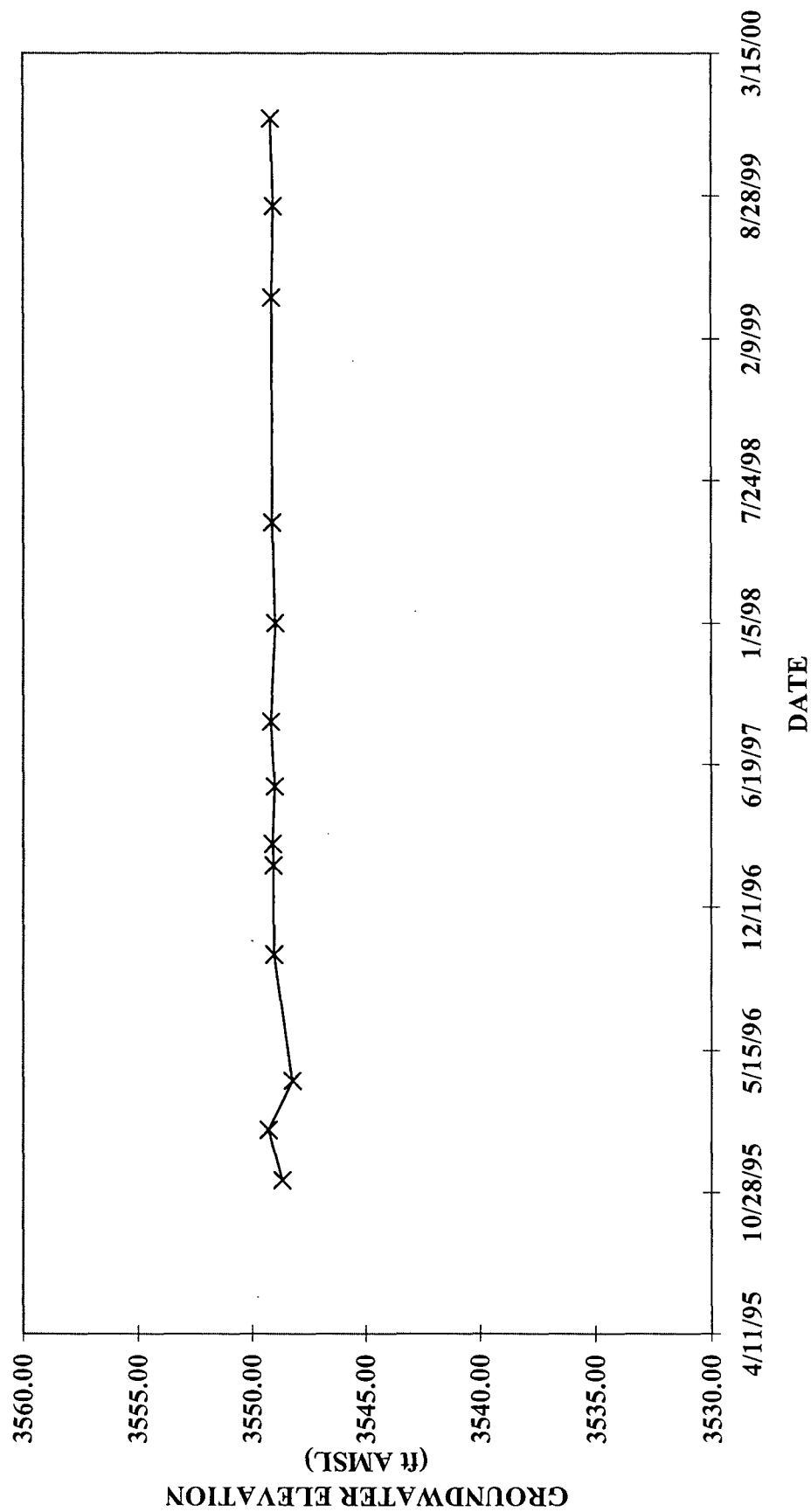
—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



—x— Corrected Groundwater Elevation

GROUNDWATER ELEVATION vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-15



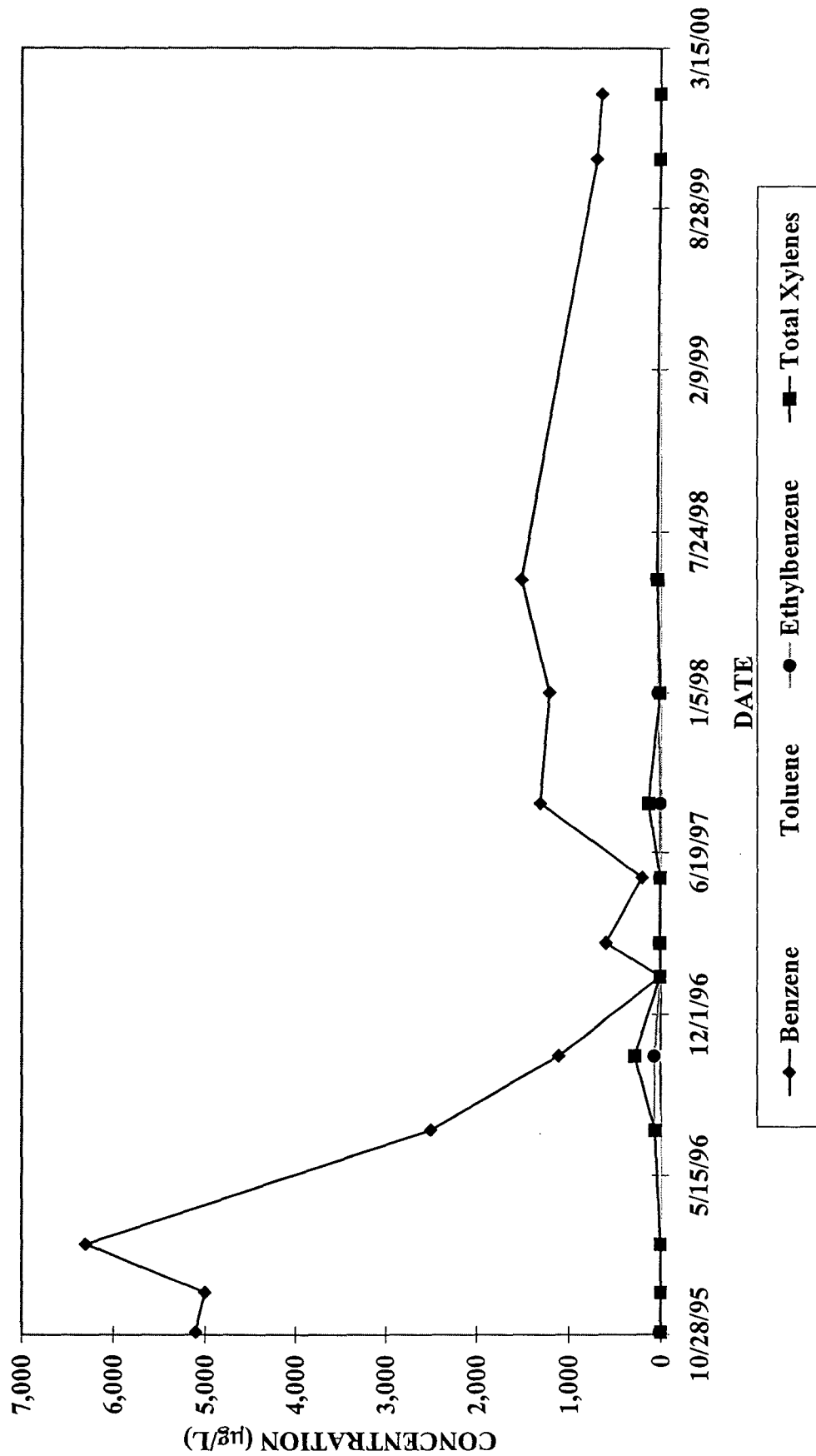
—x— Corrected Groundwater Elevation

APPENDIX B

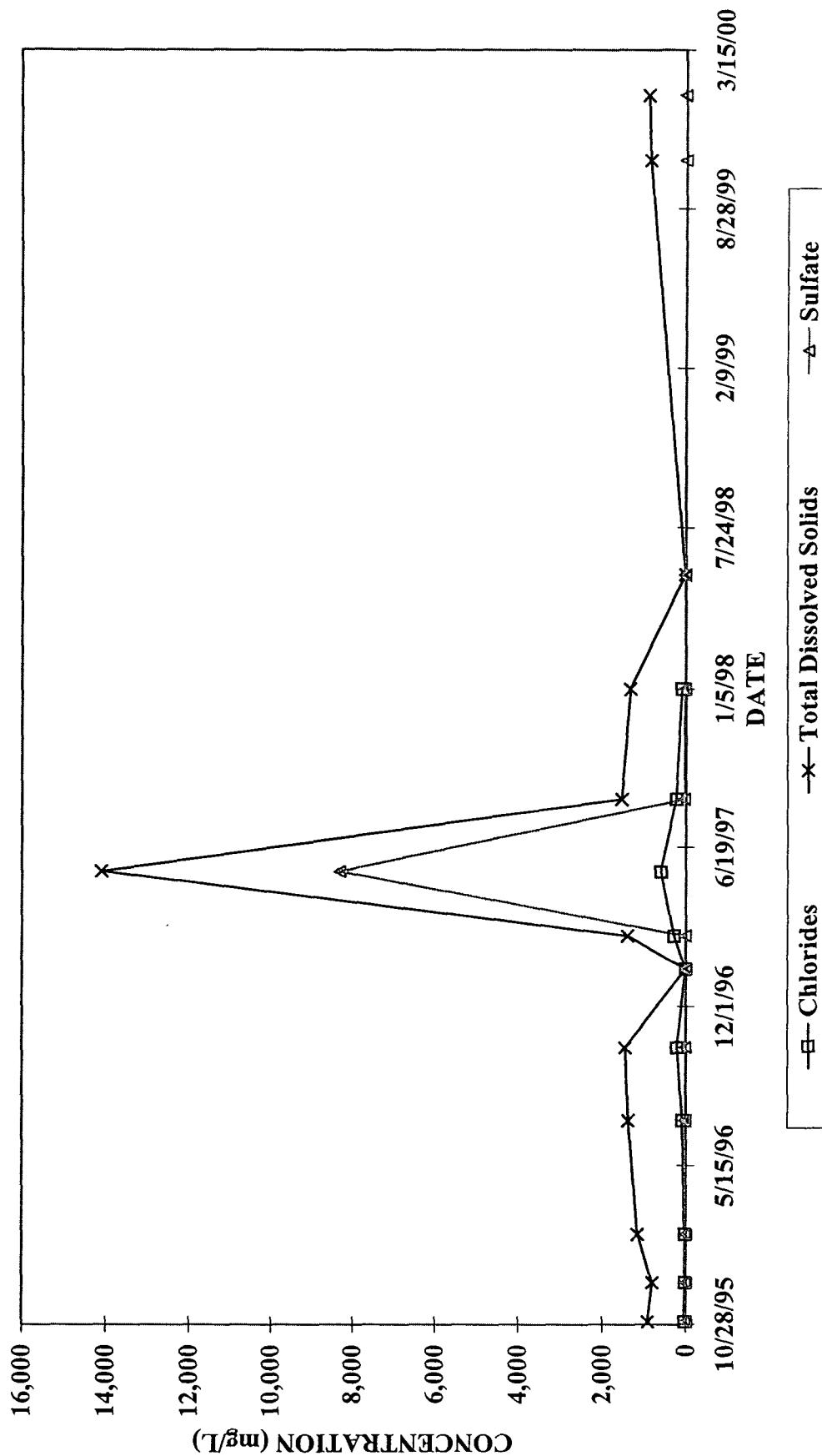


APPENDIX B

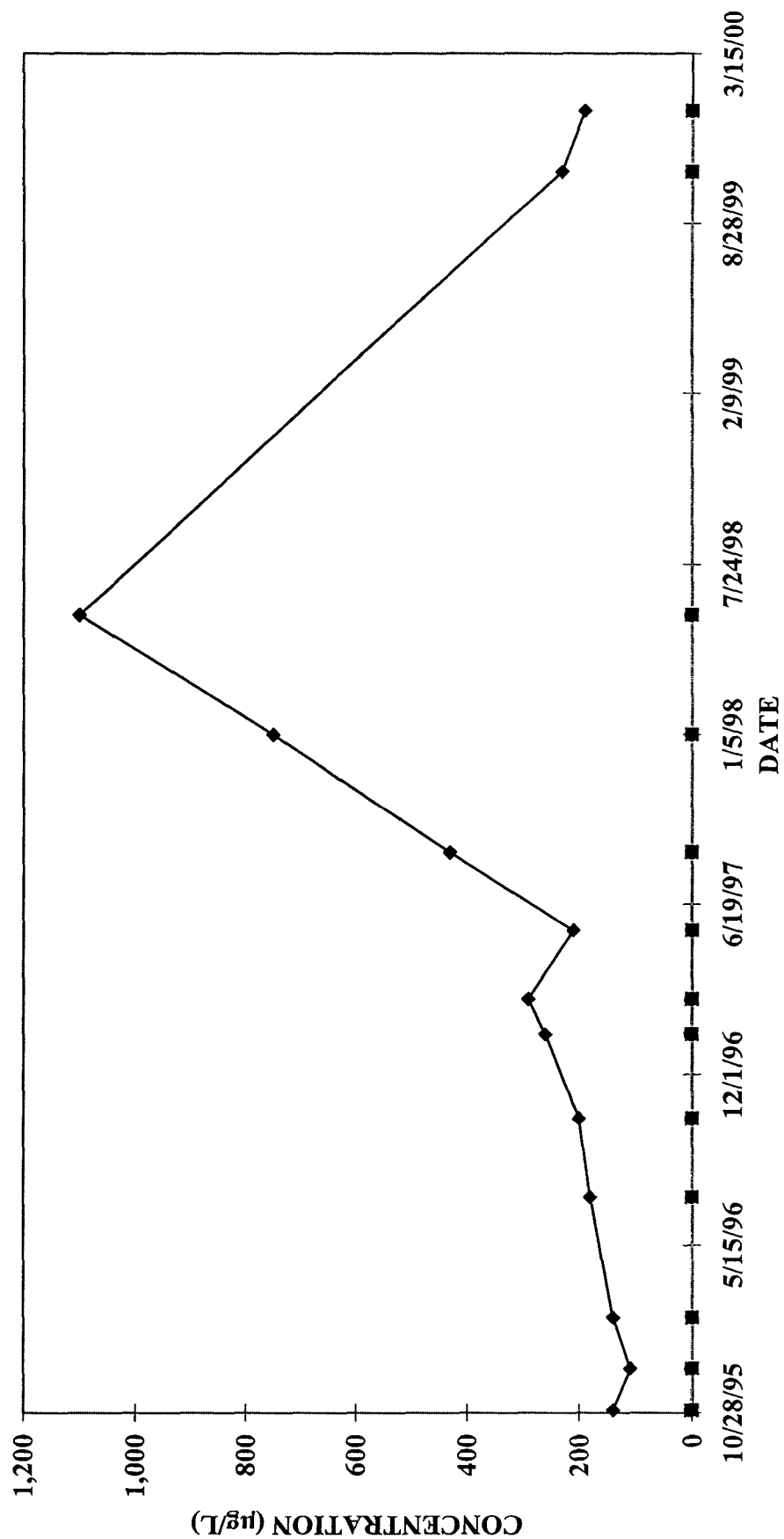
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



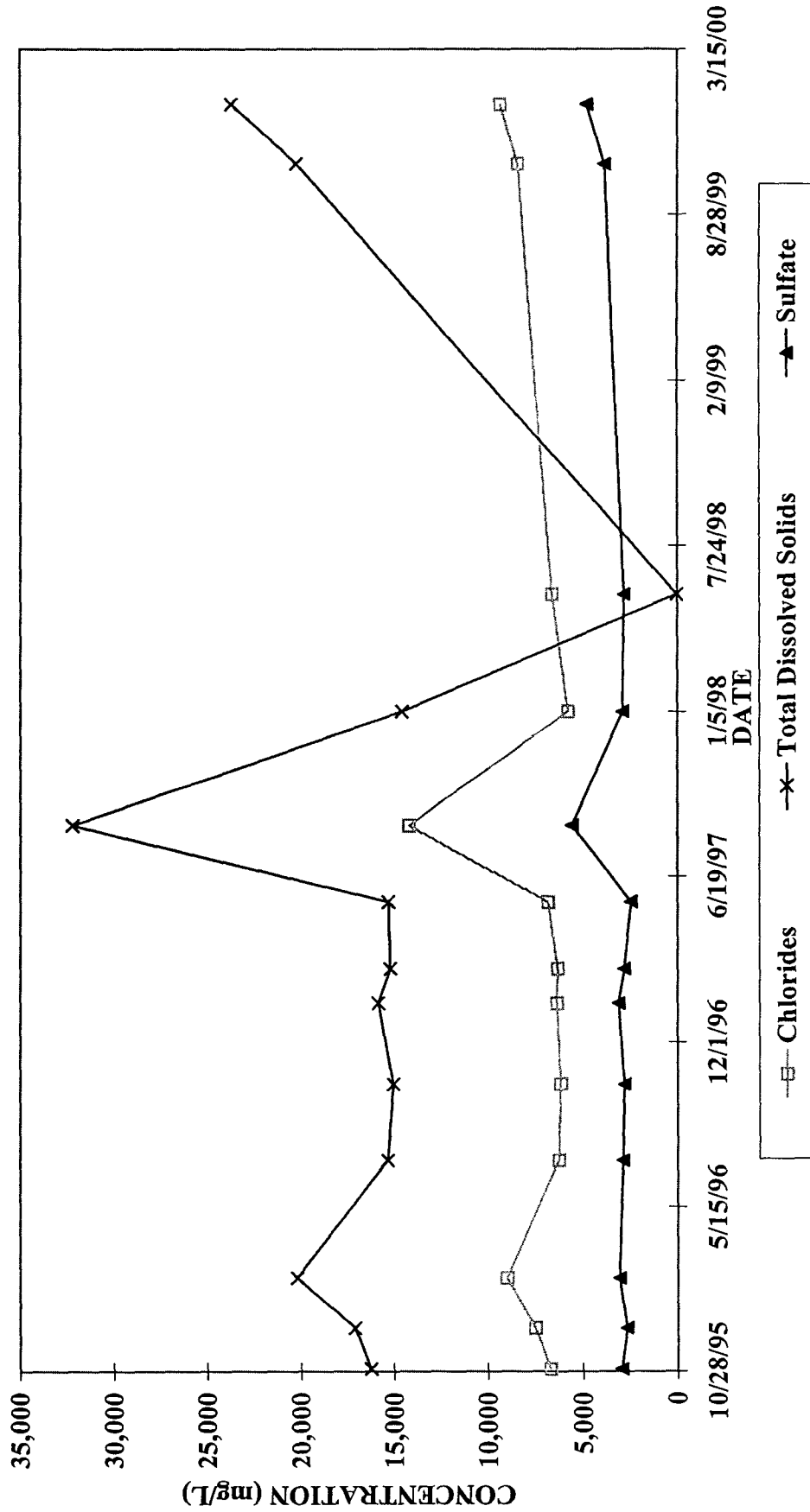
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-1



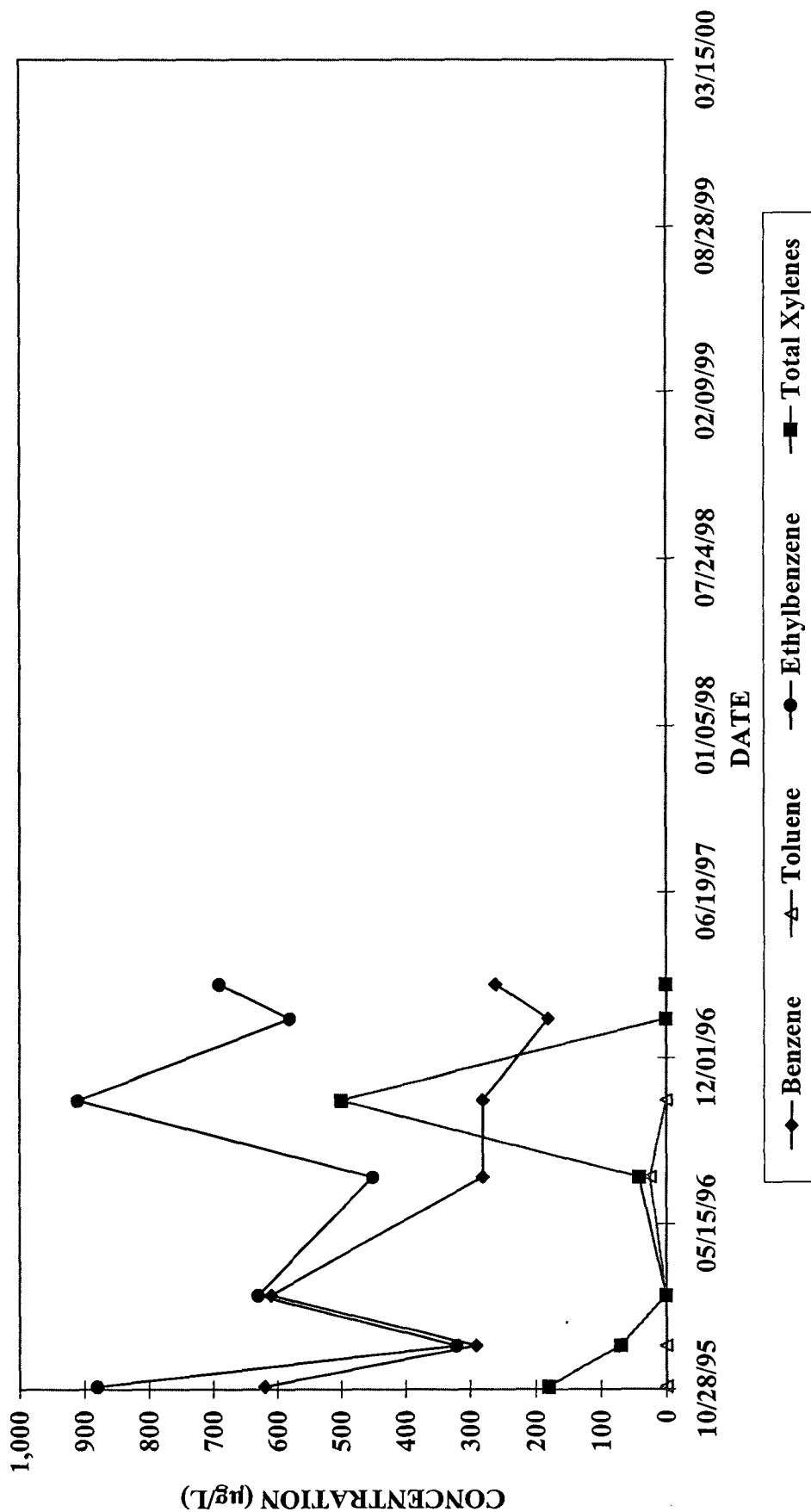
ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



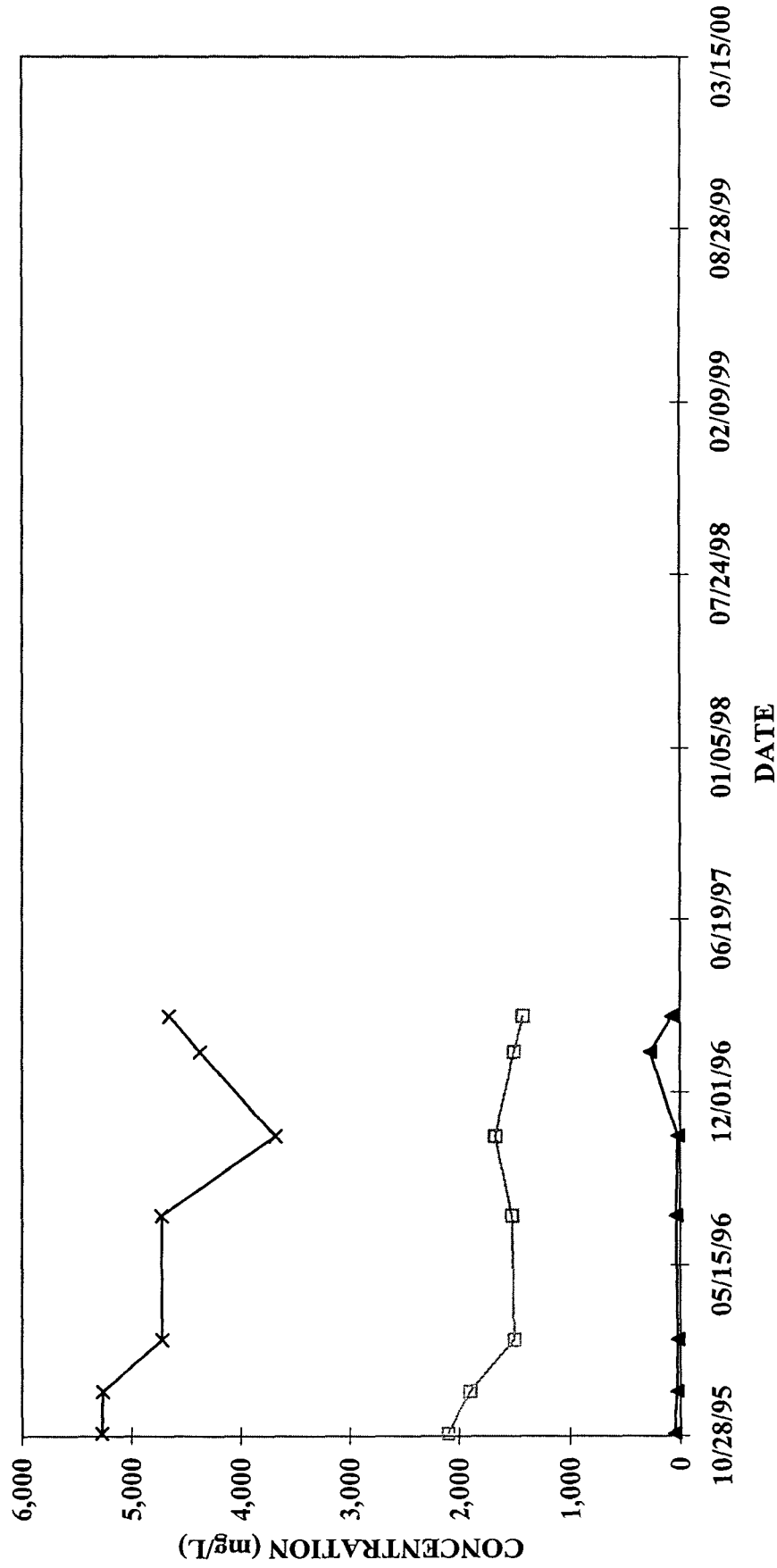
INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-5



ORGANIC GROUNDWATER QUALITY vs. TIME
WARREN MONUMENT, NEW MEXICO
WARREN PETROLEUM, INC.
WELL WP-6

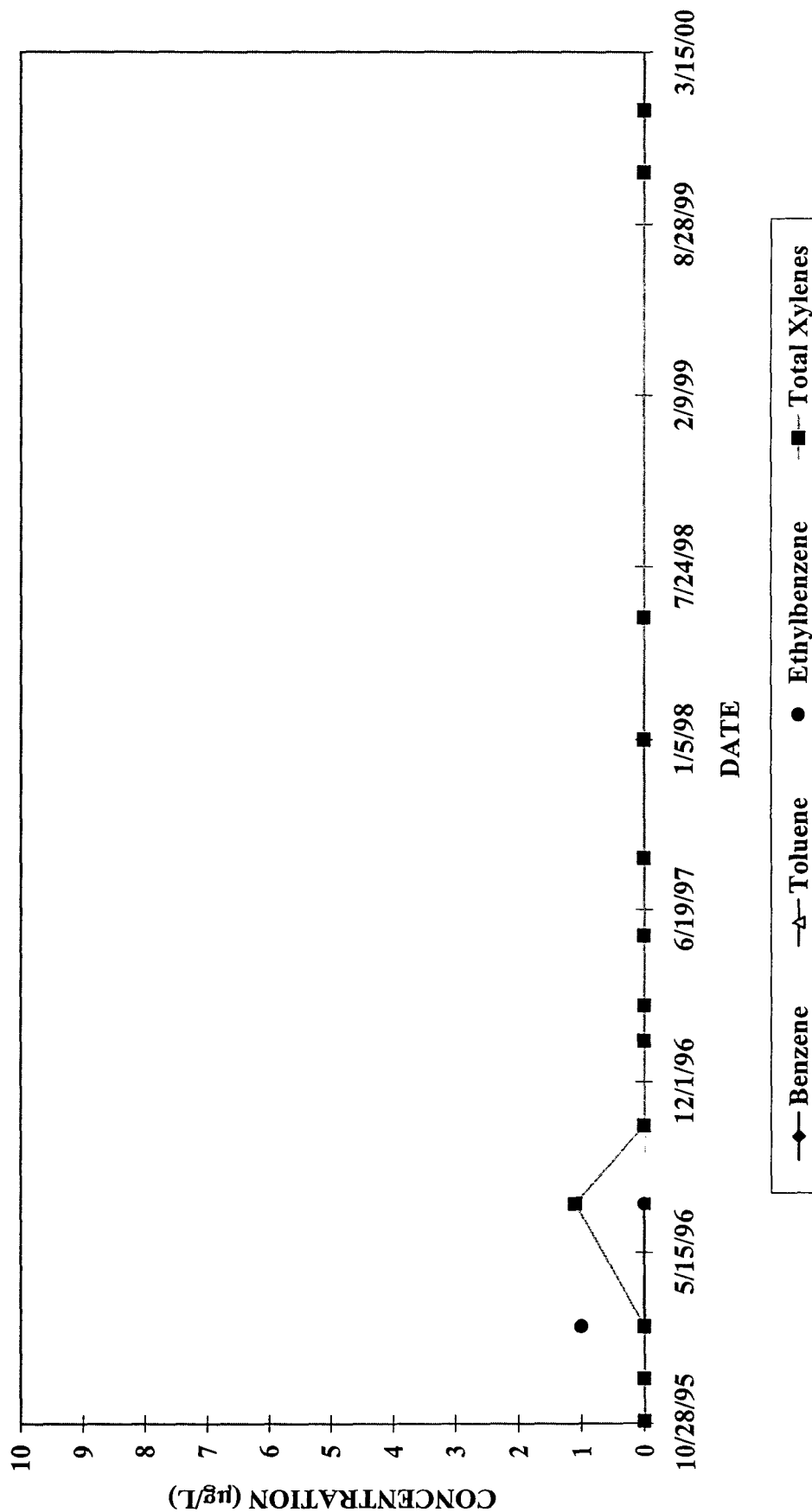


INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-6

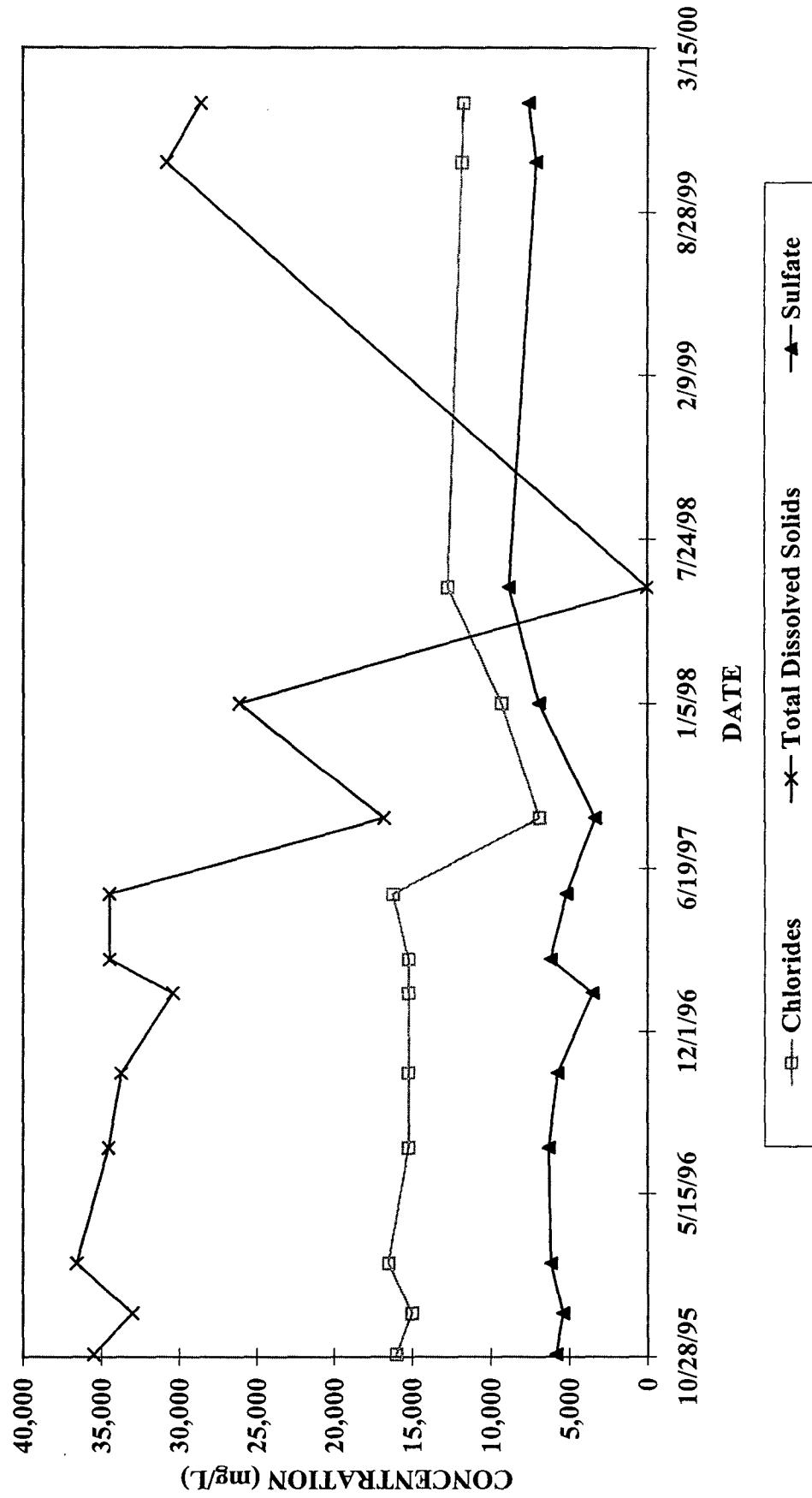


—□— Chlorides
 —x— Total Dissolved Solids
 —▲— Sulfate

ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7

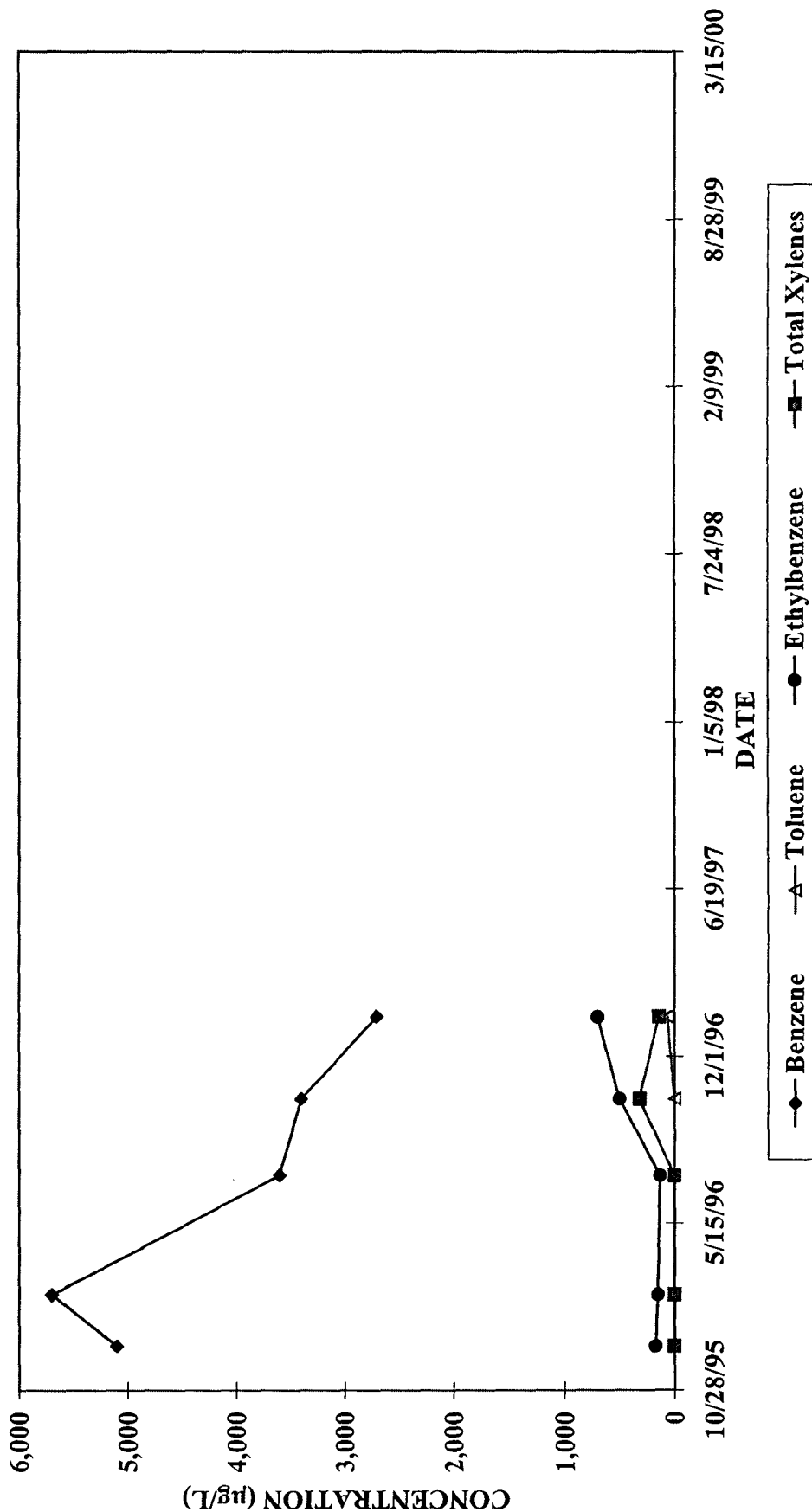


INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-7

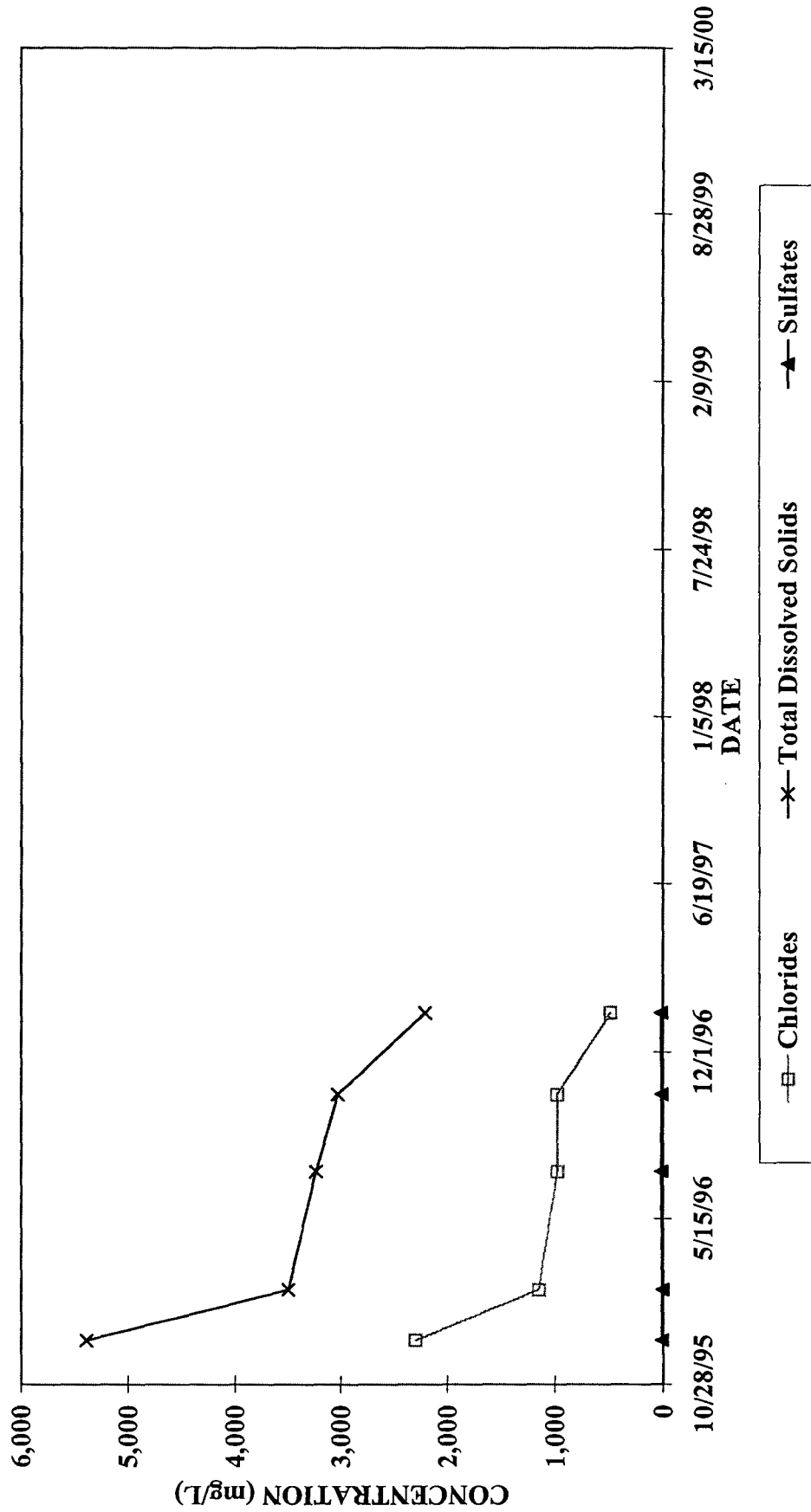


The graph displays the concentration of four aromatic compounds over time. The y-axis represents concentration in µg/L, ranging from 0 to 6,000. The x-axis represents dates from 10/28/95 to 3/15/00. Benzene (diamonds) shows a significant peak in early 1996, while Toluene (triangles), Ethylbenzene (circles), and Total Xylenes (squares) remain at very low levels, generally below 1,000 µg/L.

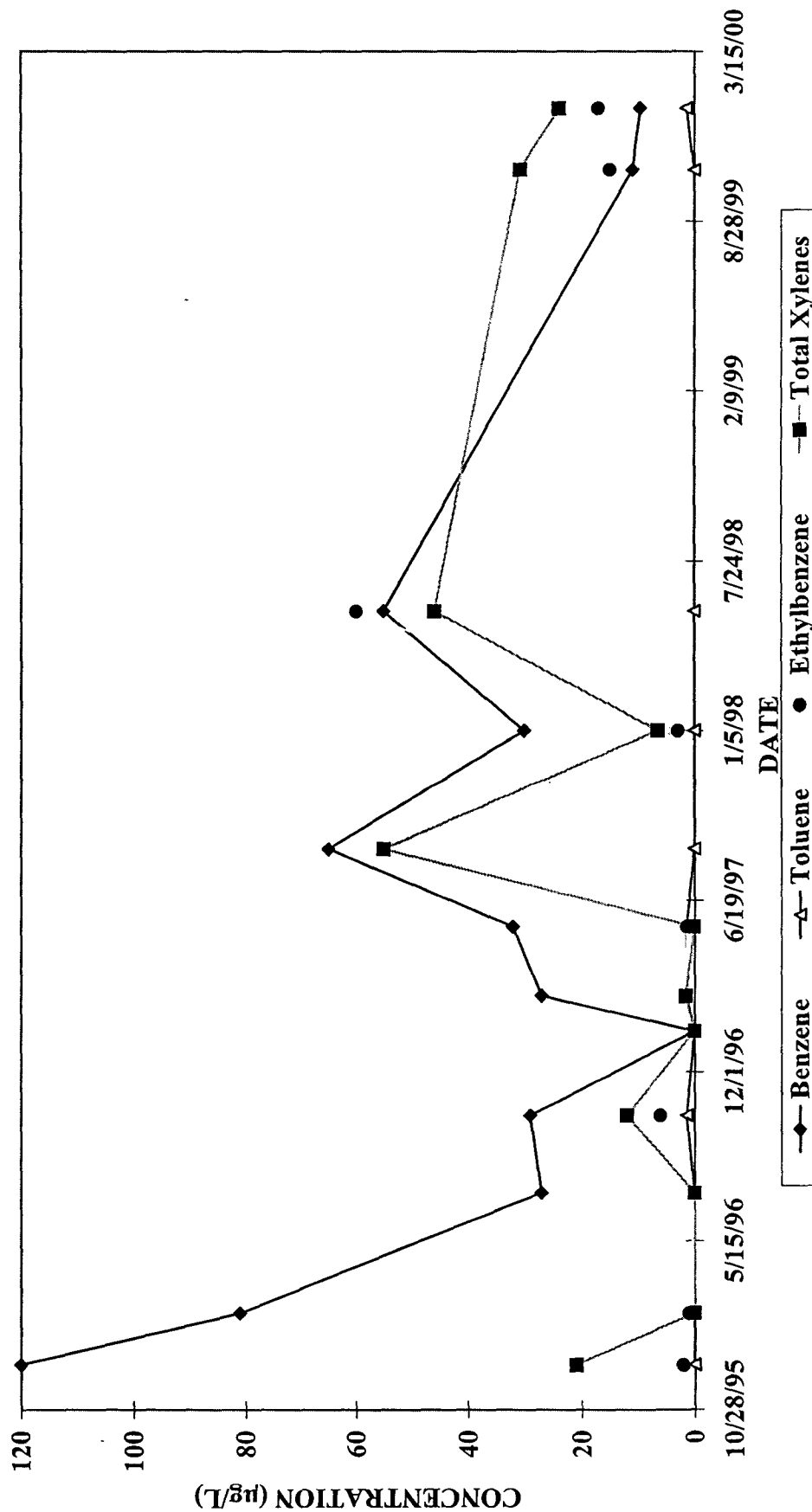
DATE	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
10/28/95	5,200	0	0	0
12/1/95	5,500	0	0	0
12/15/95	3,500	0	0	0
1/5/96	3,500	0	0	0
1/19/96	3,500	0	0	0
2/9/96	3,500	0	0	0
2/24/96	3,500	0	0	0
3/15/96	3,500	0	0	0
4/5/96	3,500	0	0	0
4/19/96	3,500	0	0	0
5/13/96	3,500	0	0	0
6/6/96	3,500	0	0	0
6/20/96	3,500	0	0	0
7/14/96	3,500	0	0	0
8/7/96	3,500	0	0	0
8/21/96	3,500	0	0	0
9/11/96	3,500	0	0	0
10/3/96	3,500	0	0	0
10/17/96	3,500	0	0	0
11/7/96	3,500	0	0	0
11/21/96	3,500	0	0	0
12/5/96	3,500	0	0	0
12/19/96	3,500	0	0	0
1/9/97	3,500	0	0	0
1/23/97	3,500	0	0	0
2/16/97	3,500	0	0	0
2/28/97	3,500	0	0	0
3/13/97	3,500	0	0	0
3/27/97	3,500	0	0	0
4/10/97	3,500	0	0	0
4/24/97	3,500	0	0	0
5/8/97	3,500	0	0	0
5/22/97	3,500	0	0	0
6/5/97	3,500	0	0	0
6/19/97	3,500	0	0	0
7/3/97	3,500	0	0	0
7/17/97	3,500	0	0	0
7/31/97	3,500	0	0	0
8/14/97	3,500	0	0	0
8/28/97	3,500	0	0	0
9/11/97	3,500	0	0	0
9/25/97	3,500	0	0	0
10/9/97	3,500	0	0	0
10/23/97	3,500	0	0	0
11/6/97	3,500	0	0	0
11/20/97	3,500	0	0	0
12/4/97	3,500	0	0	0
12/18/97	3,500	0	0	0
1/1/98	3,500	0	0	0
1/15/98	3,500	0	0	0
1/29/98	3,500	0	0	0
2/12/98	3,500	0	0	0
2/26/98	3,500	0	0	0
3/10/98	3,500	0	0	0
3/24/98	3,500	0	0	0
4/7/98	3,500	0	0	0
4/21/98	3,500	0	0	0
5/5/98	3,500	0	0	0
5/19/98	3,500	0	0	0
6/2/98	3,500	0	0	0
6/16/98	3,500	0	0	0
6/30/98	3,500	0	0	0
7/14/98	3,500	0	0	0
7/28/98	3,500	0	0	0
8/11/98	3,500	0	0	0
8/25/98	3,500	0	0	0
9/8/98	3,500	0	0	0
9/22/98	3,500	0	0	0
10/6/98	3,500	0	0	0
10/20/98	3,500	0	0	0
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11/17/98	3,500	0	0	0
11/30/98	3,500	0	0	0



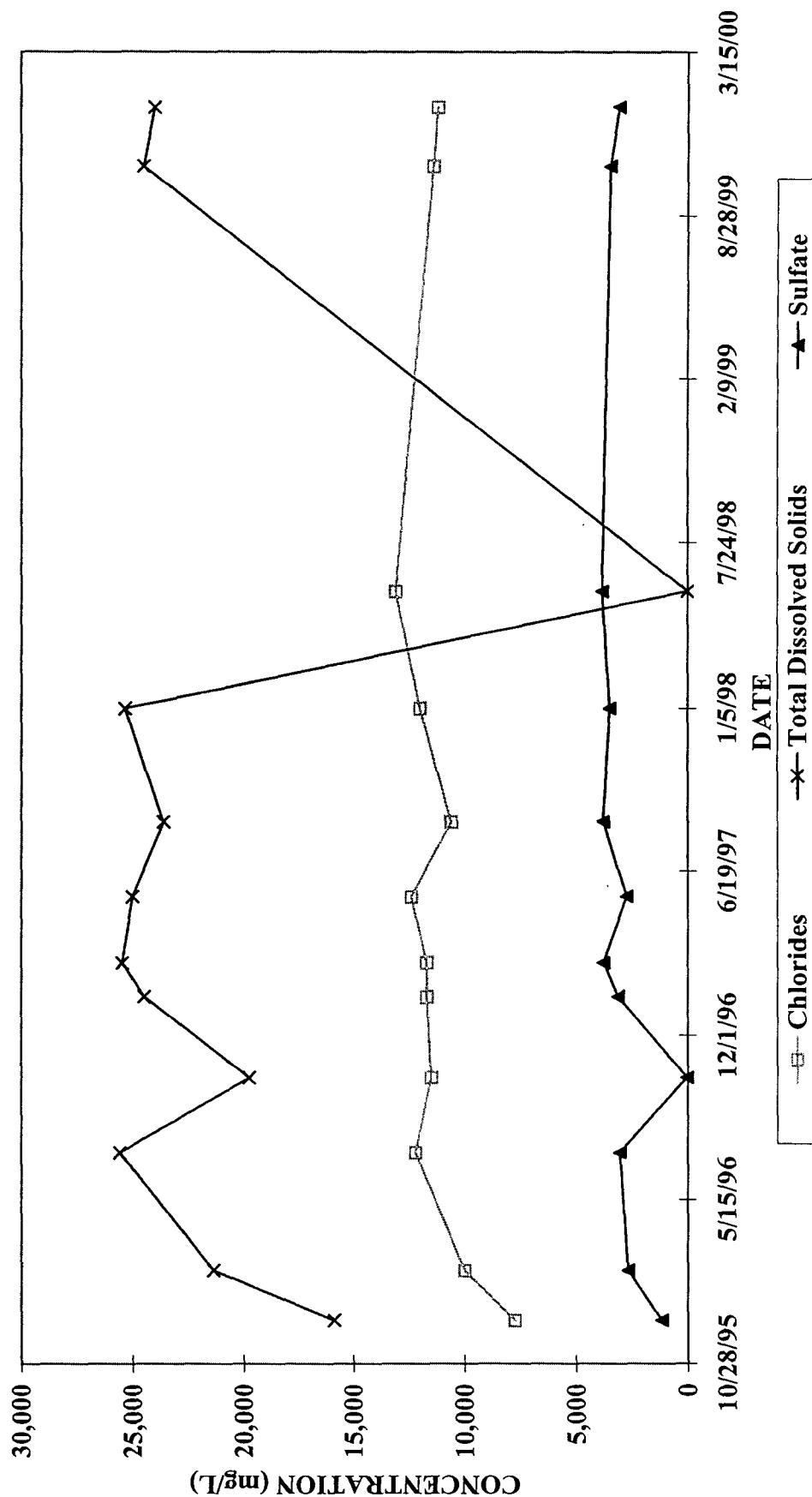
INORGANIC GROUNDWATER QUALITY vs. TIME
WARREN MONUMENT, NEW MEXICO
WARREN PETROLEUM, INC.
WELL WP-13



ORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



INORGANIC GROUNDWATER QUALITY vs. TIME
 WARREN MONUMENT, NEW MEXICO
 WARREN PETROLEUM, INC.
 WELL WP-14



APPENDIX C



APPENDIX C

Certificate of Analysis No. H9-9805B61-01

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-7 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:15:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
BENZENE	ND	1.0 P	ug/L	
TOLUENE	ND	1.0 P	ug/L	
ETHYLBENZENE	ND	1.0 P	ug/L	
TOTAL XYLENE	ND	1.0 P	ug/L	
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L	
Surrogate	% Recovery			
1,4-Difluorobenzene	100			
4-Bromofluorobenzene	90			
Method 8020A ***				
Analyzed by: TB				
Date: 05/30/98				
Chloride	12700	250	mg/L	
Method 325.3 *				
Analyzed by: DAM				
Date: 06/09/98 11:00:00				
Carbonate, as CaCO3	ND	1	mg/L	
Method SM 4500-CO2D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Bicarbonate, as CaCO3	587	1	mg/L	
Method SM 4500-CO2D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Sodium, Total	7688	1	mg/L	
Method CALCULATION				
Analyzed by: DAM				
Date: 06/09/98 19:00:00				

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.
 QUALITY ASSURANCE: These analyses are performed in accordance with
 EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-01

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-7 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:15:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
pH Method 150.1 * Analyzed by: JS Date: 05/29/98 11:45:00	7.82		pH units
Resistivity Method 120.1 * Analyzed by: JS Date: 05/29/98 11:45:00	0.025	0.001	Mohms-cm
Sulfate Method 375.4 * Analyzed by: TW Date: 06/08/98 13:00:00	8800	500	mg/L
Specific Gravity ASTM D1429 Analyzed by: KS Date: 06/09/98 16:00:00	1.024		g/cm3
Silver, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L
Arsenic, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.1	mg/L

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-01

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-7 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:15:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Barium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	0.045	0.005	mg/L
Calcium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	749	1	mg/L
Cadmium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.005	mg/L
Chromium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L
Iron, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	1.68	0.02	mg/L
Mercury, Total Method 7470 A*** Analyzed by: AG Date: 06/05/98 13:43:00	ND	0.0002	mg/L

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-01

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-7 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:15:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Potassium, Total Method 6010B *** Analyzed by: JM Date: 06/08/98 08:56:00	113	2	mg/L	
Magnesium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	195	0.1	mg/L	
Acid Digestion-Aqueous, ICP Method 3010A *** Analyzed by: SRC Date: 05/28/98 08:30:00	05/28/98			
Lead, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.05	mg/L	
Selenium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.1	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-02

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-14 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:45:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
BENZENE	55	5.0 P	ug/L	
TOLUENE	ND	5.0 P	ug/L	
ETHYLBENZENE	60	5.0 P	ug/L	
TOTAL XYLENE	46	5.0 P	ug/L	
TOTAL VOLATILE AROMATIC HYDROCARBONS	161		ug/L	
Surrogate	% Recovery			
1,4-Difluorobenzene	107			
4-Bromofluorobenzene	113			
Method 8020A ***				
Analyzed by: TB				
Date: 05/30/98				
Chloride	13100	250	mg/L	
Method 325.3 *				
Analyzed by: DAM				
Date: 06/09/98 11:00:00				
Carbonate, as CaCO3	ND	1	mg/L	
Method SM 4500-CO2D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Bicarbonate, as CaCO3	589	1	mg/L	
Method SM 4500-CO2D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Sodium, Total	8953	1	mg/L	
Method CALCULATION				
Analyzed by: DAM				
Date: 06/09/98 19:00:00				

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.
QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-02

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-14 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:45:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
pH	7.72		pH units	
Method 150.1 *				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Resistivity	0.028	0.001	Mohms-cm	
Method 120.1 *				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Sulfate	3840	250	mg/L	
Method 375.4 *				
Analyzed by: TW				
Date: 06/08/98 13:00:00				
Specific Gravity	1.023		g/cm3	
ASTM D1429				
Analyzed by: KS				
Date: 06/09/98 16:00:00				
Silver, Total	ND	0.01	mg/L	
Method 6010B ***				
Analyzed by: DQ				
Date: 06/05/98 09:46:00				
Arsenic, Total	ND	0.1	mg/L	
Method 6010B ***				
Analyzed by: DQ				
Date: 06/05/98 09:46:00				

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-02

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-14 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:45:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Barium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	0.080	0.005	mg/L	
Calcium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	816	1	mg/L	
Cadmium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.005	mg/L	
Chromium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L	
Iron, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	2.25	0.02	mg/L	
Mercury, Total Method 7470 A*** Analyzed by: AG Date: 06/05/98 13:43:00	ND	0.0002	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-02

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-14 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 10:45:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Potassium, Total Method 6010B *** Analyzed by: JM Date: 06/08/98 08:56:00	75	2	mg/L	
Magnesium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	328	0.1	mg/L	
Acid Digestion-Aqueous, ICP Method 3010A *** Analyzed by: SRC Date: 05/28/98 08:30:00	05/28/98			
Lead, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.05	mg/L	
Selenium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.1	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-03

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-1 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 08:30:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
BENZENE	1500	5.0 P	ug/L	
TOLUENE	ND	5.0 P	ug/L	
ETHYLBENZENE	34	5.0 P	ug/L	
TOTAL XYLENE	29	5.0 P	ug/L	
TOTAL VOLATILE AROMATIC HYDROCARBONS	1563		ug/L	
Surrogate	% Recovery			
1,4-Difluorobenzene	113			
4-Bromofluorobenzene	93			
Method 8020A ***				
Analyzed by: TB				
Date: 05/30/98				
Chloride	31	1	mg/L	
Method 325.3 *				
Analyzed by: DAM				
Date: 06/09/98 11:00:00				
Carbonate, as CaCO ₃	ND	1	mg/L	
Method SM 4500-CO ₂ D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Bicarbonate, as CaCO ₃	887	1	mg/L	
Method SM 4500-CO ₂ D **				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Sodium, Total	237	1	mg/L	
Method CALCULATION				
Analyzed by: DAM				
Date: 06/09/98 19:00:00				

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.
 QUALITY ASSURANCE: These analyses are performed in accordance with
 EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-03

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-1 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 08:30:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
pH	7.83		pH units	
Method 150.1 *				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Resistivity	0.564	0.001	Mohms-cm	
Method 120.1 *				
Analyzed by: JS				
Date: 05/29/98 11:45:00				
Sulfate	4	2	mg/L	
Method 375.4 *				
Analyzed by: TW				
Date: 06/08/98 13:00:00				
Specific Gravity	1.002		g/cm3	
ASTM D1429				
Analyzed by: KS				
Date: 06/09/98 16:00:00				
Silver, Total	ND	0.01	mg/L	
Method 6010B ***				
Analyzed by: DQ				
Date: 06/05/98 09:46:00				
Arsenic, Total	ND	0.1	mg/L	
Method 6010B ***				
Analyzed by: DQ				
Date: 06/05/98 09:46:00				

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-03

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-1 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 08:30:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Barium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	0.662	0.005	mg/L
Calcium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	61.6	0.1	mg/L
Cadmium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.005	mg/L
Chromium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L
Iron, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	4.45	0.02	mg/L
Mercury, Total Method 7470 A*** Analyzed by: AG Date: 06/05/98 13:43:00	ND	0.0002	mg/L

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-03

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-1 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 08:30:00
DATE RECEIVED: 05/27/98

PARAMETER	ANALYTICAL DATA	RESULTS	DETECTION LIMIT	UNITS
Potassium, Total Method 6010B *** Analyzed by: JM Date: 06/08/98 08:56:00		4	2	mg/L
Magnesium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00		22.4	0.1	mg/L
Acid Digestion-Aqueous, ICP Method 3010A *** Analyzed by: SRC Date: 05/28/98 08:30:00		05/28/98		
Lead, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00		ND	0.05	mg/L
Selenium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00		ND	0.1	mg/L

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-04

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-5 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 09:00:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1100	5.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	1.2	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1101.2		ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	107
4-Bromofluorobenzene	93

Method 8020A ***
Analyzed by: TB
Date: 05/30/98

Chloride	6600	50	mg/L
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Method 325.3 *
Analyzed by: DAM
Date: 06/09/98 11:00:00

Carbonate, as CaCO ₃	ND	1	mg/L
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Method SM 4500-CO₂D **
Analyzed by: JS
Date: 05/29/98 11:45:00

Bicarbonate, as CaCO ₃	757	1	mg/L
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Method SM 4500-CO₂D **
Analyzed by: JS
Date: 05/29/98 11:45:00

Sodium, Total	5291	1	mg/L
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Method CALCULATION
Analyzed by: DAM
Date: 06/09/98 19:00:00

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.
QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-04

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-5 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 09:00:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
pH Method 150.1 * Analyzed by: JS Date: 05/29/98 11:45:00	8.10		pH units	
Resistivity Method 120.1 * Analyzed by: JS Date: 05/29/98 11:45:00	0.047	0.001	Mohms-cm	
Sulfate Method 375.4 * Analyzed by: TW Date: 06/08/98 13:00:00	2800	500	mg/L	
Specific Gravity ASTM D1429 Analyzed by: KS Date: 06/09/98 16:00:00	1.017		g/cm3	
Silver, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L	
Arsenic, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.1	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-04

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-5 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 09:00:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Barium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	0.030	0.005	mg/L	
Calcium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	311	0.1	mg/L	
Cadmium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.005	mg/L	
Chromium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.01	mg/L	
Iron, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	0.28	0.02	mg/L	
Mercury, Total Method 7470 A*** Analyzed by: AG Date: 06/05/98 13:43:00	ND	0.0002	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-04

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Warren Petroleum Company
SAMPLE ID: MW-5 A-E

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98 09:00:00
DATE RECEIVED: 05/27/98

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Potassium, Total Method 6010B *** Analyzed by: JM Date: 06/08/98 08:56:00	53	2	mg/L	
Magnesium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	120	0.1	mg/L	
Acid Digestion-Aqueous, ICP Method 3010A *** Analyzed by: SRC Date: 05/28/98 08:30:00	05/28/98			
Lead, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.05	mg/L	
Selenium, Total Method 6010B *** Analyzed by: DQ Date: 06/05/98 09:46:00	ND	0.1	mg/L	

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9805B61-05

Warren Petroleum
P.O. Box 67
Monument, NM 88265
ATTN: Buddy Marley

DATE: 09/16/99

PROJECT: 1st Half Analysis
SITE: Monument, NM
SAMPLED BY: Provided By SPL
SAMPLE ID: Trip Blank 5/20/98

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 05/26/98
DATE RECEIVED: 05/27/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	1.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	ND	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	97
4-Bromofluorobenzene	90

Method 8020A ***
Analyzed by: TB
Date: 05/30/98

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with
EPA guidelines for quality assurance.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

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DEC 13 1999

Case Narrative for:
Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

99100552

ARCADIS Geraghty & Miller

Report To: ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925	Project Name: Site: Monument, NM Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 12/6/99
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As per the request of Tim Brandon of Arcadias Geraghty & Miller, TDS was added and analyzed outside the method holding time.

Your sample ID "MW#14 A-E" (SPL ID: 99100552-04) was analyzed for Purgable Aromatics by SW846 method 8021B. The surrogate 4-Bromofluorobenzene was outside the quality control limits, due to matrix interference.

Your sample ID "MW#5 A-E" (SPL ID: 99100552-02) was randomly selected for the use in SPL's quality control program for the Purgable Aromatics analysis by SW846 method 8021B. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Benzene (Batch ID: HP_S_991109A-97651), due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "MW#1 A-E" (SPL ID: 99100552-01) was randomly selected for the use in SPL's quality control program for the Total Metals analysis by SW846 method 6010B. The Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Calcium (Batch ID: TJA_991103B-89567), due to matrix interference. A Laboratory Control Sample (LCS), Post Digestion Spike (PDS), and Post Digestion Spike Duplicate (PDSD) were analyzed as a quality control check for the analytical batch.

Your sample ID "MW#1 A-E" (SPL ID: 99100552-01) was randomly selected for the use in SPL's quality control program for the Total Metals analysis by SW846 method 6010B. The Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Sodium (Batch ID: TJA_991111A-100187), due to matrix interference. A Laboratory Control Sample (LCS), Post Digestion Spike (PDS), and Post Digestion Spike Duplicate (PDSD) were analyzed as a quality control check for the analytical batch.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sonia West
West, Sonia
Project Manager

12/7/99

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

99100552

Report To: ARCADIS Geraghty & Miller
Tim Brandon
5100 E. Skelly Drive, Suite 1000

Tulsa
OK

74135-

ph: (918) 664-9900 fax: (918) 664-9925

Fax To: ARCADIS Geraghty & Miller
Tim Brandon fax: (918) 664-9925

Project Name:

Site: Monument, NM

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 12/6/99

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW#1 A-E	99100552-01	Water	10/28/99 12:30:00 PM	10/29/99 10:00:00 AM	080232	☐
MW #5 A-E	99100552-02	Water	10/28/99 1:15:00 PM	10/29/99 10:00:00 AM	080232	☐
MW #7 A-E	99100552-03	Water	10/28/99 10:45:00 AM	10/29/99 10:00:00 AM	080233	☐
MW #14 A-E	99100552-04	Water	10/28/99 1:45:00 PM	10/29/99 10:00:00 AM	080233	☐

Sonia West
West, Sonia
Project Manager

12/6/99

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#1 A-E

Collected: 10/28/99 12:30:0 SPL Sample ID: 99100552-01

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			E310.1		Units: mg/L		
Alkalinity, Bicarbonate	640	1	1		11/04/99 14:00	AB	97017
CARBONATE, AS CaCO3			E310.1		Units: mg/L		
Alkalinity, Carbonate	ND	2	1		11/04/99 14:00	AB	97027
CHLORIDE, TOTAL			E325.3		Units: mg/L		
Chloride	28	1	1		11/10/99 10:00	CV	98104
MERCURY, TOTAL			SW7470A		Units: mg/L		
Mercury	ND	0.0002	1		11/02/99 16:12	AG	87704
METALS BY METHOD 6010B, TOTAL			SW6010B		Units: mg/L		
Arsenic	0.0519	0.005	1		11/03/99 16:21	EG	90410
Lead	ND	0.005	1		11/03/99 16:21	EG	90410
Selenium	ND	0.005	1		11/03/99 16:21	EG	90410
Barium	7.32	0.005	1		11/03/99 12:39	PB	89568
Cadmium	ND	0.005	1		11/03/99 12:39	PB	89568
Calcium	123	0.1	1		11/03/99 12:39	PB	89568
Chromium	ND	0.01	1		11/03/99 12:39	PB	89568
Iron	3.56	0.02	1		11/03/99 12:39	PB	89568
Magnesium	70.9	0.1	1		11/03/99 12:39	PB	89568
Potassium	5.16	2	1		11/03/99 12:39	PB	89568
Silver	ND	0.01	1		11/03/99 12:39	PB	89568
Sodium	86.9	0.5	1		11/11/99 10:45	PB	100183

Run ID/Seq #: TJA 991103B-89568

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJAT 991103A-90410

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJA 991111A-100183

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

PH			E150.1		Units: pH Units		
pH	6.9	0.10	1		10/29/99 15:00	E_B	85128

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 5

12/6/99 8:58:07 AM



HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW#1 A-E

Collected: 10/28/99 12:30:0 SPL Sample ID: 99100552-01

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	690	5	5		11/09/99 22:55	DL	97659
Ethylbenzene	ND	5	5		11/09/99 22:55	DL	97659
Toluene	ND	5	5		11/09/99 22:55	DL	97659
m,p-Xylene	ND	5	5		11/09/99 22:55	DL	97659
o-Xylene	ND	5	5		11/09/99 22:55	DL	97659
Xylenes, Total	ND	5	5		11/09/99 22:55	DL	97659
Surr: 1,4-Difluorobenzene	97	% 72-137	5		11/09/99 22:55	DL	97659
Surr: 4-Bromofluorobenzene	100	% 48-156	5		11/09/99 22:55	DL	97659
RESISTANCE @ 25 C			120.1		Units: Mohms/cm		
Resistance	0.926	0.00100	1		11/04/99 14:00	AB	101138
SPECIFIC GRAVITY			ASTM D-4052		Units: Specific Gravity@6		
Specific Gravity	1.001	0	1		11/05/99 0:00	SUB	96258
SULFATE, TOTAL			E375.4		Units: mg/L		
Sulfate	6.53	1	1		11/05/99 10:15	E_B	93648
TOTAL DISSOLVED SOLIDS			E160.1		Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	851	10	1		11/19/99 16:30	GJ	114480

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 6
12/6/99 8:58:07 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #5 A-E

Collected: 10/28/99 1:15:00 SPL Sample ID: 99100552-02

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO ₃			E310.1		Units: mg/L		
Alkalinity, Bicarbonate	748	1	1		11/04/99 14:00	AB	97018
CARBONATE, AS CaCO ₃			E310.1		Units: mg/L		
Alkalinity, Carbonate	ND	2	1		11/04/99 14:00	AB	97028
CHLORIDE, TOTAL			E325.3		Units: mg/L		
Chloride	8410	100	100		11/10/99 10:00	CV	98107
MERCURY, TOTAL			SW7470A		Units: mg/L		
Mercury	ND	0.0002	1		11/02/99 16:12	AG	87705

Run ID/Seq #: HGL 991102C-87705

Prep Method	Prep Date	Prep Initials
SW7470A	11/02/1999 11:45	AG

METALS BY METHOD 6010B, TOTAL			SW6010B		Units: mg/L		
Arsenic	0.00584	0.005	1		11/03/99 16:50	EG	90428
Lead	ND	0.005	1		11/03/99 16:50	EG	90428
Selenium	0.00755	0.005	1		11/03/99 16:50	EG	90428
Barium	0.0468	0.005	1		11/03/99 13:02	PB	89574
Cadmium	ND	0.005	1		11/03/99 13:02	PB	89574
Calcium	432	0.1	1		11/03/99 13:02	PB	89574
Chromium	ND	0.01	1		11/03/99 13:02	PB	89574
Iron	0.523	0.02	1		11/03/99 13:02	PB	89574
Magnesium	222	0.1	1		11/03/99 13:02	PB	89574
Potassium	56.5	2	1		11/03/99 13:02	PB	89574
Silver	ND	0.01	1		11/03/99 13:02	PB	89574
Sodium	6150	10	20		11/11/99 11:09	PB	100189

Run ID/Seq #: TJA 991103B-89574

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJAT 991103A-90428

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJA 991111A-100189

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

PH			E150.1		Units: pH Units		
pH	7.1	0.10	1		10/29/99 15:00	E_B	85130

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 9

12/6/99 8:58:09 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #5 A-E

Collected: 10/28/99 1:15:00 SPL Sample ID: 99100552-02

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	230	1	1		11/09/99 21:28	DL	97656
Ethylbenzene	ND	1	1		11/09/99 21:28	DL	97656
Toluene	ND	1	1		11/09/99 21:28	DL	97656
m,p-Xylene	ND	1	1		11/09/99 21:28	DL	97656
o-Xylene	ND	1	1		11/09/99 21:28	DL	97656
Xylenes, Total	ND	1	1		11/09/99 21:28	DL	97656
Surr: 1,4-Difluorobenzene	100	% 72-137	1		11/09/99 21:28	DL	97656
Surr: 4-Bromofluorobenzene	110	% 48-156	1		11/09/99 21:28	DL	97656
RESISTANCE @ 25 C			120.1		Units: Mohms/cm		
Resistance	0.03	0.00100	1		11/04/99 14:00	AB	101140
SPECIFIC GRAVITY			ASTM D-4052		Units: Specific Gravity@6		
Specific Gravity	1.0162	0	1		11/05/99 0:00	SUB	96259
SULFATE, TOTAL			E375.4		Units: mg/L		
Sulfate	3830	500	500		11/05/99 10:15	E_B	93649
TOTAL DISSOLVED SOLIDS			E160.1		Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	20200	100	10		11/19/99 16:30	GJ	114481

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 10
12/6/99 8:58:10 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #7 A-E

Collected: 10/28/99 10:45:0 SPL Sample ID: 99100552-03

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO3			E310.1		Units: mg/L		
Alkalinity, Bicarbonate	673	1	1		11/04/99 14:00	AB	97019
CARBONATE, AS CaCO3			E310.1		Units: mg/L		
Alkalinity, Carbonate	ND	2	1		11/04/99 14:00	AB	97029
CHLORIDE, TOTAL			E325.3		Units: mg/L		
Chloride	11800	250	250		11/10/99 10:00	CV	98108
MERCURY, TOTAL			SW7470A		Units: mg/L		
Mercury	0.0014	0.0002	1		11/02/99 16:12	AG	87706
Run ID/Seq #: HGL 991102C-87706							
Prep Method		Prep Date		Prep Initials			
SW7470A		11/02/1999 11:45		AG			
METALS BY METHOD 6010B, TOTAL			SW6010B		Units: mg/L		
Arsenic	0.0247	0.005	1		11/03/99 16:55	EG	90430
Lead	ND	0.005	1		11/03/99 16:55	EG	90430
Selenium	0.0142	0.005	1		11/03/99 16:55	EG	90430
Barium	0.0313	0.005	1		11/03/99 13:06	PB	89575
Cadmium	ND	0.005	1		11/03/99 13:06	PB	89575
Calcium	698	0.1	1		11/03/99 13:06	PB	89575
Chromium	0.0415	0.01	1		11/03/99 13:06	PB	89575
Iron	0.33	0.02	1		11/03/99 13:06	PB	89575
Magnesium	158	0.1	1		11/03/99 13:06	PB	89575
Potassium	173	2	1		11/03/99 13:06	PB	89575
Silver	ND	0.01	1		11/03/99 13:06	PB	89575
Sodium	9960	10	20		11/11/99 11:12	PB	100190
Run ID/Seq #: TJA 991103B-89575							
Prep Method		Prep Date		Prep Initials			
SW3010A		11/02/1999 13:30		EE			
Run ID/Seq #: TJAT 991103A-90430							
Prep Method		Prep Date		Prep Initials			
SW3010A		11/02/1999 13:30		EE			
Run ID/Seq #: TJA 991111A-100190							
Prep Method		Prep Date		Prep Initials			
SW3010A		11/02/1999 13:30		EE			
PH			E150.1		Units: pH Units		
pH	7.1	0.10	1		10/29/99 15:00	E_B	85131

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #7 A-E

Collected: 10/28/99 10:45:0 SPL Sample ID: 99100552-03

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	ND	1	1		11/09/99 4:15	DL	96677
Ethylbenzene	ND	1	1		11/09/99 4:15	DL	96677
Toluene	ND	1	1		11/09/99 4:15	DL	96677
m,p-Xylene	ND	1	1		11/09/99 4:15	DL	96677
o-Xylene	ND	1	1		11/09/99 4:15	DL	96677
Xylenes, Total	ND	1	1		11/09/99 4:15	DL	96677
Surr: 1,4-Difluorobenzene	95	% 72-137	1		11/09/99 4:15	DL	96677
Surr: 4-Bromofluorobenzene	100	% 48-156	1		11/09/99 4:15	DL	96677
RESISTANCE @ 25 C			120.1		Units: Mohms/cm		
Resistance	0.014	0.00100	1		11/04/99 14:00	AB	101141
SPECIFIC GRAVITY			ASTM D-4052		Units: Specific Gravity@6		
Specific Gravity	1.0233	0	1		11/05/99 0:00	SUB	96260
SULFATE, TOTAL			E375.4		Units: mg/L		
Sulfate	7080	500	500		11/05/99 10:15	E_B	93650
TOTAL DISSOLVED SOLIDS			E160.1		Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	30800	100	10		11/19/99 16:30	GJ	114482

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #14 A-E

Collected: 10/28/99 1:45:00 SPL Sample ID: 99100552-04

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃			E310.1		Units: mg/L		
Alkalinity, Bicarbonate	630	1	1		11/04/99 14:00	AB	97020
CARBONATE, AS CaCO₃			E310.1		Units: mg/L		
Alkalinity, Carbonate	ND	2	1		11/04/99 14:00	AB	97030
CHLORIDE, TOTAL			E325.3		Units: mg/L		
Chloride	11400	250	250		11/10/99 10:00	CV	98109
MERCURY, TOTAL			SW7470A		Units: mg/L		
Mercury	ND	0.0002	1		11/02/99 16:12	AG	87707

Run ID/Seq #: HGL 991102C-87707

Prep Method	Prep Date	Prep Initials
SW7470A	11/02/1999 11:45	AG

METALS BY METHOD 6010B, TOTAL			SW6010B		Units: mg/L		
Arsenic	0.00773	0.005	1		11/03/99 17:09	EG	90435
Lead	ND	0.005	1		11/03/99 17:09	EG	90435
Selenium	ND	0.005	1		11/03/99 17:09	EG	90435
Barium	0.0338	0.005	1		11/03/99 13:19	PB	89578
Cadmium	ND	0.005	1		11/03/99 13:19	PB	89578
Calcium	759	0.1	1		11/03/99 13:19	PB	89578
Chromium	ND	0.01	1		11/03/99 13:19	PB	89578
Iron	2.63	0.02	1		11/03/99 13:19	PB	89578
Magnesium	323	0.1	1		11/03/99 13:19	PB	89578
Potassium	74.5	2	1		11/03/99 13:19	PB	89578
Silver	ND	0.01	1		11/03/99 13:19	PB	89578
Sodium	8420	10	20		11/11/99 11:16	PB	100191

Run ID/Seq #: TJA 991103B-89578

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJAT 991103A-90435

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

Run ID/Seq #: TJA 991111A-100191

Prep Method	Prep Date	Prep Initials
SW3010A	11/02/1999 13:30	EE

PH			E150.1		Units: pH Units		
pH	6.9	0.10	1		10/29/99 15:00	E_B	85132

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 17

12/6/99 8:58:15 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW #14 A-E Collected: 10/28/99 1:45:00 SPL Sample ID: 99100552-04

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	11	1	1		11/09/99 21:57	DL	97657
Ethylbenzene	15	1	1		11/09/99 21:57	DL	97657
Toluene	ND	1	1		11/09/99 21:57	DL	97657
m,p-Xylene	21	1	1		11/09/99 21:57	DL	97657
o-Xylene	9.8	1	1		11/09/99 21:57	DL	97657
Xylenes, Total	30.8	1	1		11/09/99 21:57	DL	97657
Surr: 1,4-Difluorobenzene	99	% 72-137	1		11/09/99 21:57	DL	97657
Surr: 4-Bromofluorobenzene	180	% 48-156	1	*	11/09/99 21:57	DL	97657
RESISTANCE @ 25 C			120.1		Units: Mohms/cm		
Resistance	0.02	0.00100	1		11/04/99 14:00	AB	101142
SPECIFIC GRAVITY			ASTM D-4052		Units: Specific Gravity@6		
Specific Gravity	1.019	0	1		11/05/99 0:00	SUB	96261
SULFATE, TOTAL			E375.4		Units: mg/L		
Sulfate	3460	500	500		11/05/99 10:15	E_B	93651
TOTAL DISSOLVED SOLIDS			E160.1		Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	24500	100	10		11/19/99 16:30	GJ	114483

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

99100552 Page 18
12/6/99 8:58:16 AM

QUALITY CONTROL

DOCUMENTATION



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 99100552
Lab Batch ID: R4540

Method Blank

Samples in Analytical Batch:

RunID: HP_S_991108A-96673 Units: ug/L
Analysis Date: 11/08/1999 23:08 Analyst: DL

Lab Sample ID: 99100552-03A
Client Sample ID: MW #7 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.4	72-137
Surr: 4-Bromofluorobenzene	99.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_S_991108A-96672 Units: ug/L
Analysis Date: 11/08/1999 22:40 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	43	86	61	119
Ethylbenzene	50	51	101	70	118
Toluene	50	49	97	65	125
m,p-Xylene	100	95	95	72	116
o-Xylene	50	51	103	72	117
Xylenes, Total	150	146	97	72	116

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99110026-01
RunID: HP_S_991108A-96784 Units: ug/L
Analysis Date: 11/08/1999 23:37 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	74	20	78	18.4*	20	79	25.7*	33.1*	21	32	164
Ethylbenzene	16	20	30	70.0	20	31	75.3	7.36	19	52	142
Toluene	3.9	20	20	79.4	20	21	83.4	4.87	20	38	159

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 99100552
Lab Batch ID: R4540

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99110026-01
RunID: HP_S_991108A-96784 Units: ug/L
Analysis Date: 11/08/1999 23:37 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	12	40	42	73.9	40	43	77.7	5.00	17	53	144
o-Xylene	8.2	20	25	84.6	20	26	88.5	4.57	18	53	143
Xylenes, Total	20	60	67	78.0	60	69	81.3	4.18	17	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 99100552
Lab Batch ID: R4590

Method Blank

Samples in Analytical Batch:

RunID: HP_S_991109A-97652 Units: ug/L
Analysis Date: 11/09/1999 19:00 Analyst: DL

Lab Sample ID	Client Sample ID
99100552-01A	MW#1 A-E
99100552-02A	MW #5 A-E
99100552-04A	MW #14 A-E

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	95.7	72-137
Surr: 4-Bromofluorobenzene	98.1	48-156

Laboratory Control Sample (LCS)

RunID: HP_S_991109A-97651 Units: ug/L
Analysis Date: 11/09/1999 17:35 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	53	107	61	119
Ethylbenzene	50	54	109	70	118
Toluene	50	55	109	65	125
m,p-Xylene	100	110	106	72	116
o-Xylene	50	55	109	72	117
Xylenes, Total	150	165	110	72	116

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100552-02
RunID: HP_S_991109A-97653 Units: ug/L
Analysis Date: 11/09/1999 19:29 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	230	20	220	-53.7*	20	220	-49.0*	9.12	21	32	164
Ethylbenzene	ND	20	20	99.9	20	21	103	2.90	19	52	142
Toluene	ND	20	20	101	20	21	103	1.65	20	38	159

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 99100552
Lab Batch ID: R4590

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100552-02
RunID: HP_S_991109A-97653 Units: ug/L
Analysis Date: 11/09/1999 19:29 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	37	92.4	40	38	94.5	2.22	17	53	144
o-Xylene	ND	20	21	101	20	21	104	2.60	18	53	143
Xylenes, Total	ND	60	58	96.7	60	59	98.3	1.71	17	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 99100552
Lab Batch ID: 1462

Method Blank

RunID: HGL_991102C-87675 Units: mg/L
Analysis Date: 11/02/1999 16:12 Analyst: AG
Preparation Date: 11/02/1999 11:45 Prep By: AG Method: SW7470A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99100552-01B	MW#1 A-E
99100552-02B	MW #5 A-E
99100552-03B	MW #7 A-E
99100552-04B	MW #14 A-E

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID: HGL_991102C-87676 Units: mg/L
Analysis Date: 11/02/1999 16:12 Analyst: AG
Preparation Date: 11/02/1999 11:45 Prep By: AG Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002	0.00212	106	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99110003-01
RunID: HGL_991102C-87689 Units: mg/L
Analysis Date: 11/02/1999 16:12 Analyst: AG
Preparation Date: 11/02/1999 11:45 Prep By: AG Method: SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.0021	105	0.002	0.00207	104	1.58	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 99100552
Lab Batch ID: 1464

Method Blank

Samples in Analytical Batch:

RunID: TJA_991103B-89566 Units: mg/L
Analysis Date: 11/03/1999 12:30 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Lab Sample ID Client Sample ID
99100552-01B MW#1 A-E
99100552-02B MW #5 A-E
99100552-03B MW #7 A-E
99100552-04B MW #14 A-E

Analyte	Result	Rep Limit
Barium	ND	0.005
Cadmium	ND	0.005
Calcium	ND	0.1
Chromium	ND	0.01
Iron	ND	0.02
Magnesium	ND	0.1
Potassium	ND	2
Silver	ND	0.01

Laboratory Control Sample (LCS)

RunID: TJA_991103B-89567 Units: mg/L
Analysis Date: 11/03/1999 12:35 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	2	2.1	105	80	120
Cadmium	2	2.09	105	80	120
Calcium	20	21.4	107	80	120
Chromium	2	2.14	107	80	120
Iron	2	2.13	107	80	120
Magnesium	20	21.1	106	80	120
Potassium	20	19.8	99	80	120
Silver	2	2.11	105	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 99100552-01
RunID: TJA_991103B-89572 Units: mg/L
Analysis Date: 11/03/1999 12:54 Analyst: PB

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	123	10	132	90	10	129	65	33*	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 99100552
Lab Batch ID: 1464

Sample Spiked: 99100552-01
RunID: TJA_991103B-89569 Units: mg/L
Analysis Date: 11/03/1999 12:42 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	7.3	1	8.28	95.4	1	8.14	81.9	15.2	20	75	125
Cadmium	ND	1	1.03	103	1	1.04	104	1.08	20	75	125
Calcium	120	10	133	104	10	130	74.8*	32.5*	20	75	125
Chromium	ND	1	1.03	103	1	1.05	105	2.29	20	75	125
Iron	3.6	1	4.59	102	1	4.53	96.7	5.79	20	75	125
Magnesium	71	10	81.1	103	10	79.7	88.3	14.9	20	75	125
Potassium	5.2	10	15.1	99.8	10	15.2	100	0.410	20	75	125
Silver	ND	1	1.02	102	1	1.04	104	2.02	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 99100552
Lab Batch ID: 1464-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_991103A-90405 Units: mg/L
Analysis Date: 11/03/1999 16:11 Analyst: EG
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Lab Sample ID Client Sample ID
99100552-01B MW#1 A-E
99100552-02B MW #5 A-E
99100552-03B MW #7 A-E
99100552-04B MW #14 A-E

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Lead	ND	0.005
Selenium	ND	0.005

Laboratory Control Sample (LCS)

RunID: TJAT_991103A-90408 Units: mg/L
Analysis Date: 11/03/1999 16:16 Analyst: EG
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	4.36	109	80	120
Lead	2	2.11	106	80	120
Selenium	4	4.32	108	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100552-01
RunID: TJAT_991103A-90414 Units: mg/L
Analysis Date: 11/03/1999 16:26 Analyst: EG
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.052	2	2.24	109	2	2.26	110	0.878	20	75	125
Lead	ND	1	1.02	102	1	1.03	103	1.10	20	75	125
Selenium	ND	2	2.15	107	2	2.16	108	0.752	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total

WorkOrder: 99100552

Method: SW6010B

Lab Batch ID: 1464A

Method Blank

Samples in Analytical Batch:

RunID: TJA_991111A-100179 Units: mg/L
Analysis Date: 11/11/1999 10:28 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Lab Sample ID Client Sample ID
99100552-01B MW#1 A-E
99100552-02B MW #5 A-E
99100552-03B MW #7 A-E
99100552-04B MW #14 A-E

Analyte	Result	Rep Limit
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_991111A-100180 Units: mg/L
Analysis Date: 11/11/1999 10:32 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sodium	20	22.2	111	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 99100552-01
RunID: TJA_991111A-100187 Units: mg/L
Analysis Date: 11/11/1999 11:01 Analyst: PB

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sodium	86.9	10	93.6	67*	10	94.2	73*	8.3	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100552-01
RunID: TJA_991111A-100184 Units: mg/L
Analysis Date: 11/11/1999 10:49 Analyst: PB
Preparation Date: 11/02/1999 13:30 Prep By: EE Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sodium	87	10	95.9	90.1	10	92.8	59.5*	40.8*	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Specific Gravity
Method: ASTM D-4052

WorkOrder: 99100552
Lab Batch ID: R4520

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: pH
Method: E150.1

WorkOrder: 99100552
Lab Batch ID: R4076

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Laboratory Control Sample (LCS)

RunID: WET_9910290-85126 Units: pH Units
Analysis Date: 10/29/1999 15:00 Analyst: E_B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7	7	100	99.3	100.7

Sample Duplicate

Original Sample: 99100552-01
RunID: WET_9910290-85128 Units: pH Units
Analysis Date: 10/29/1999 15:00 Analyst: E_B

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	6.9	6.9	0	5

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Sulfate, Total
Method: E375.4

WorkOrder: 99100552
Lab Batch ID: R4410A

Method Blank

Samples in Analytical Batch:

RunID: WET_991105E-93642 Units: mg/L
Analysis Date: 11/05/1999 10:15 Analyst: E_B

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Analyte	Result	Rep Limit
Sulfate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_991105E-93643 Units: mg/L
Analysis Date: 11/05/1999 10:15 Analyst: E_B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	26.8	26.8	100	82	111

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100473-04
RunID: WET_991105E-93645 Units: mg/L
Analysis Date: 11/05/1999 10:15 Analyst: E_B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	68	125	179	88.5	125	184	93.0	4.97	9.5	84	120

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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HOUSTON, TEXAS 77054
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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Bicarbonate, as CaCO₃
Method: E310.1

WorkOrder: 99100552
Lab Batch ID: R4556

Method Blank

Samples in Analytical Batch:

RunID: WET_991104K-97012 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_991104K-97014 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Bicarbonate	11.8	12.1	102	90	110

Sample Duplicate

Original Sample: 9910903-01C
RunID: WET_991104K-97015 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate	ND	ND	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Carbonate
Method: E310.1

WorkOrder: 99100552
Lab Batch ID: R4557

Method Blank

RunID: WET_991104L-97022 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Analyte	Result	Rep Limit
Alkalinity, Carbonate	ND	2.0

Laboratory Control Sample (LCS)

RunID: WET_991104L-97024 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Carbonate	11.8	12.1	102	90	110

Sample Duplicate

Original Sample: 9910903-01C
RunID: WET_991104L-97025 Units: mg/L
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Chloride, Total
Method: E325.3

WorkOrder: 99100552
Lab Batch ID: R4608

Method Blank

RunID: WET_991110A-98101 Units: mg/L
Analysis Date: 11/10/1999 10:00 Analyst: CV

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Analyte	Result	Rep Limit
Chloride	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_991110A-98103 Units: mg/L
Analysis Date: 11/10/1999 10:00 Analyst: CV

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	74.4	71.8	97	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100552-01
RunID: WET_991110A-98105 Units: mg/L
Analysis Date: 11/10/1999 10:00 Analyst: CV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	28	50	78.8	102	50	78.8	102	0	20	76	131

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Resistance @ 25 C
Method: 120.1

WorkOrder: 99100552
Lab Batch ID: R4748

Method Blank

RunID: WET_9911040-101136 Units: Mohms/cm
Analysis Date: 11/04/1999 14:00 Analyst: AB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E
99100552-04C	MW #14 A-E

Analyte	Result	Rep Limit
Resistance	ND	0.0010

Laboratory Control Sample (LCS)

RunID: WET_9911040-101137 Units: Mohms/cm
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Resistance	1408.8	1410	100	90	110

Sample Duplicate

Original Sample: 99100552-01
RunID: WET_9911040-101138 Units: Mohms/cm
Analysis Date: 11/04/1999 14:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Resistance	0.926	0.926	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 99100552
Lab Batch ID: R5300B

Method Blank

Samples in Analytical Batch:

RunID: WET_991119N-114465 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Lab Sample ID	Client Sample ID
99100552-01C	MW#1 A-E
99100552-02C	MW #5 A-E
99100552-03C	MW #7 A-E

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue, Filterable)	ND	10

Laboratory Control Sample (LCS)

RunID: WET_991119N-114466 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Total Dissolved Solids (Residue, Filterable)	450	450	100	80	120

Sample Duplicate

Original Sample: 99110392-16
RunID: WET_991119N-114472 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue, Filterable)	3800	3890	2	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 99100552
Lab Batch ID: R5300C

Method Blank

Samples in Analytical Batch:

RunID: WET_991119N-114465 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Lab Sample ID Client Sample ID
99100552-04C MW #14 A-E

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue, Filterable)	ND	10

Laboratory Control Sample (LCS)

RunID: WET_991119N-114466 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Total Dissolved Solids (Residue, Filterable)	450	450	100	80	120

Sample Duplicate

Original Sample: 99100552-04
RunID: WET_991119N-114483 Units: mg/L
Analysis Date: 11/19/1999 16:30 Analyst: GJ

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue, Filterable)	24500	24400	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

*Chain of Custody
And
Sample Receipt Checklist*

500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775



SPL, Inc.

SPL Worksheet No:

080233

Analysis Request & Chain of Custody Record

Requested Analysis

page 1 of 1

99100552

Client Name: NYNEX & YAddress/Phone: 10. Box 67 (505) 393-2823Client Contact: OSCAR DECEONProject Name: 99-44 Rtn

Project Number:

Project Location: MANAGEMENT, NMInvoice To: SPL

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX	MAJOR CATIONS + ANIONS	PA + Heavy Metals
MW #7	10-28-99	1045/AM			W	V	40	1	1	X		
MW #7					W	V	40	1	1	X		
MW #7					W	V	40	1	1	X		
MW #7					W	P	1	2	1		X	
MW #7					W	P	1	1	1		X	
MW #14	10-28-99	145/PM			W	V	40	1	1	X		
MW #14					W	V	40	1	1	X		
MW #14					W	V	40	1	1	X		
MW #14					W	P	1	2	1		X	
MW #14					W	P	1	1	1		X	

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☐ N
Temp: 4

Requested TAT

Special Reporting Requirements

Fax Results

☒

Raw Data

☐

Special Detection Limits (specify):

PM review (initials): 20024hr ☐ 72hr ☐
48hr ☐ Standard ☐
Other ☐1. Relinquished Sample: 10-28-99
3. Relinquished by: OSCAR DECEONStandard QC ☐ Level 3 QC ☐ Level 4 QC ☐5. Relinquished by: 10-28-992. Received by: 10-28-99
4. Received by: 10-28-99
6. Received by Laboratory: 10-28-99☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 99100552

Received by: Estrada, Ruben

Date and Time Received: 10/29/99 10:00:00 AM

Carrier name: FedEx

Temperature:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	Yes ☒	No ☐	Not Present ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

**RECEIVED**

JAN 08 2000

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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

ARCADIS Geraghty & Miller

Case Narrative for:
Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

00010384

<u>Report To:</u> ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925	<u>Project Name:</u> <u>Site:</u> Monument, NM <u>Site Address:</u> <u>PO Number:</u> <u>State:</u> New Mexico <u>State Cert. No.:</u> N/A <u>Date Reported:</u> 1/24/00
--	---

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.


West, Sonia
Senior Project Manager

1/24/00

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Dynegy Midstream Services Limited Partnership

Certificate of Analysis Number:

00010384

Report To: ARCADIS Geraghty & Miller Tim Brandon 5100 E. Skelly Drive, Suite 1000 Tulsa OK 74135- ph: (918) 664-9900 fax: (918) 664-9925 Fax To: Dynegy Midstream Services Limited Partnership Oscar DeLeon fax:	Project Name: Site: Monument, NM Site Address: PO Number: State: New Mexico State Cert. No.: N/A Date Reported: 1/24/00
--	--

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW#1A-D	00010384-01	Water	1/18/00 2:15:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#1E	00010384-01	Water	1/18/00 2:15:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#1A-C	00010384-01	Water	1/18/00 2:15:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#5A-C	00010384-02	Water	1/18/00 1:50:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#5D	00010384-02	Water	1/18/00 1:50:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#5E	00010384-02	Water	1/18/00 1:50:00 PM	1/19/00 10:00:00 AM	079904	☐
MW#7A-C	00010384-03	Water	1/18/00 12:28:00 PM	1/19/00 10:00:00 AM	079905	☐
MW#7D	00010384-03	Water	1/18/00 12:28:00 PM	1/19/00 10:00:00 AM	079905	☐
MW#7E	00010384-03	Water	1/18/00 12:28:00 PM	1/19/00 10:00:00 AM	079905	☐
MW#14E	00010384-04	Water	1/18/00 1:10:00 AM	1/19/00 10:00:00 AM	079905	☐
MW#14A-C	00010384-04	Water	1/18/00 1:10:00 AM	1/19/00 10:00:00 AM	079905	☐
MW#14D	00010384-04	Water	1/18/00 1:10:00 AM	1/19/00 10:00:00 AM	079905	☐
Trip Blank 12/28/99	00010384-05	Water	1/18/00	1/19/00 10:00:00 AM	079904	☐


West, Sonia
Senior Project Manager

1/24/00

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#1A-D Collected: 1/18/00 2:15:00 SPL Sample ID: 00010384-01

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	654	1	1		01/20/00 11:00	AB	162324
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/20/00 11:00	AB	162334
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	29.4	1	1		01/21/00 10:30	CV	163574
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/20/00 0:00	PB	162928

Run ID/Seq #: HGL_000120A-162928

Prep Method	Prep Date	Prep Initials
	01/20/2000 9:45	

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.0447	0.005		1	01/23/00 10:48	JM 165539
Lead	ND	0.005		1	01/23/00 10:48	JM 165539
Selenium	ND	0.005		1	01/23/00 10:48	JM 165539
Barium	4.93	0.005		1	01/22/00 14:06	EG 166652
Cadmium	ND	0.005		1	01/22/00 14:06	EG 166652
Calcium	107	0.1		1	01/22/00 14:06	EG 166652
Chromium	ND	0.01		1	01/22/00 14:06	EG 166652
Iron	5.34	0.02		1	01/22/00 14:06	EG 166652
Magnesium	62.3	0.1		1	01/22/00 14:06	EG 166652
Potassium	5.63	2		1	01/22/00 14:06	EG 166652
Silver	ND	0.01		1	01/22/00 14:06	EG 166652
Sodium	135	0.5		1	01/22/00 14:06	EG 166652

Run ID/Seq #: TJAT_000122B-165539

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

Run ID/Seq #: TJA_000122A-166652

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

PH			MCL	E150.1	Units: pH Units	
pH	7	0.10		1	01/19/00 15:30	EC 161510

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 5
1/24/00 6:57:49 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#1A-D

Collected: 1/18/00 2:15:00

SPL Sample ID: 00010384-01

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	640	5	5		01/20/00 5:07	D_R	162228
Ethylbenzene	ND	5	5		01/20/00 5:07	D_R	162228
Toluene	ND	5	5		01/20/00 5:07	D_R	162228
m,p-Xylene	ND	5	5		01/20/00 5:07	D_R	162228
o-Xylene	ND	5	5		01/20/00 5:07	D_R	162228
Xylenes, Total	ND	5	5		01/20/00 5:07	D_R	162228
Surr: 1,4-Difluorobenzene	85.3	% 72-137	5		01/20/00 5:07	D_R	162228
Surr: 4-Bromofluorobenzene	85.6	% 48-156	5		01/20/00 5:07	D_R	162228
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	1.05	0.00100	1		01/20/00 11:00	AB	162361
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.0011	0	1		01/20/00 0:00	SUB	162895
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	5.4	1	1		01/21/00 10:30	ES	163803
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	890	10	1		01/21/00 17:00	GJ	165011

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 6

1/24/00 6:57:49 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#5D

Collected: 1/18/00 1:50:00

SPL Sample ID: 00010384-02

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	615	1	1		01/20/00 11:00	AB	162325
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/20/00 11:00	AB	162335
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	9340	100	100		01/21/00 10:30	CV	163577
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/20/00 0:00	PB	162933

Run ID/Seq #: HGL_000120A-162933

Prep Method	Prep Date	Prep Initials
SW7470A	01/20/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.00903	0.005		1	01/23/00 11:39	JM 165547
Lead	ND	0.005		1	01/23/00 11:39	JM 165547
Selenium	ND	0.005		1	01/23/00 11:39	JM 165547
Barium	0.0235	0.005		1	01/22/00 14:29	EG 166658
Cadmium	ND	0.005		1	01/22/00 14:29	EG 166658
Calcium	496	0.1		1	01/22/00 14:29	EG 166658
Chromium	ND	0.01		1	01/22/00 14:29	EG 166658
Iron	0.066	0.02		1	01/22/00 14:29	EG 166658
Magnesium	266	0.1		1	01/22/00 14:29	EG 166658
Potassium	79.1	2		1	01/22/00 14:29	EG 166658
Silver	ND	0.01		1	01/22/00 14:29	EG 166658
Sodium	4440	0.5		1	01/22/00 14:29	EG 166658

Run ID/Seq #: TJAT_000122B-165547

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

Run ID/Seq #: TJA_000122A-166658

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

PH			MCL	E150.1	Units: pH Units	
pH	7.2	0.10		1	01/19/00 15:30	EC 161512

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 17

1/24/00 6:57:57 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#5D

Collected: 1/18/00 1:50:00

SPL Sample ID: 00010384-02

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	190	5		5	01/20/00 4:40	D_R	162227
Ethylbenzene	ND	5		5	01/20/00 4:40	D_R	162227
Toluene	ND	5		5	01/20/00 4:40	D_R	162227
m,p-Xylene	ND	5		5	01/20/00 4:40	D_R	162227
o-Xylene	ND	5		5	01/20/00 4:40	D_R	162227
Xylenes, Total	ND	5		5	01/20/00 4:40	D_R	162227
Surr: 1,4-Difluorobenzene	93.2	% 72-137		5	01/20/00 4:40	D_R	162227
Surr: 4-Bromofluorobenzene	93.3	% 48-156		5	01/20/00 4:40	D_R	162227
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.008	0.00100		1	01/20/00 11:00	AB	162363
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.0182	0		1	01/20/00 0:00	SUB	162896
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	4780	500		500	01/21/00 10:30	ES	163806
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	23700	100		10	01/21/00 17:00	GJ	165013

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 18

1/24/00 6:57:57 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#7A-C

Collected: 1/18/00 12:28:00 SPL Sample ID: 00010384-03

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	721	1	1		01/20/00 11:00	AB	162326
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/20/00 11:00	AB	162336
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	11700	250	250		01/21/00 10:30	CV	163578
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/20/00 0:00	PB	162934

Run ID/Seq #: HGL_000120A-162934

Prep Method	Prep Date	Prep Initials
SW7470A	01/20/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L		
Arsenic	0.0252	0.005		1	01/23/00 11:45	JM	165548
Lead	ND	0.005		1	01/23/00 11:45	JM	165548
Selenium	0.00794	0.005		1	01/23/00 11:45	JM	165548
Barium	0.0222	0.005		1	01/22/00 14:33	EG	166659
Cadmium	ND	0.005		1	01/22/00 14:33	EG	166659
Calcium	650	0.1		1	01/22/00 14:33	EG	166659
Chromium	ND	0.01		1	01/22/00 14:33	EG	166659
Iron	0.0534	0.02		1	01/22/00 14:33	EG	166659
Magnesium	145	0.1		1	01/22/00 14:33	EG	166659
Potassium	209	2		1	01/22/00 14:33	EG	166659
Silver	ND	0.01		1	01/22/00 14:33	EG	166659
Sodium	4790	0.5		1	01/22/00 14:33	EG	166659

Run ID/Seq #: TJAT_000122B-165548

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

Run ID/Seq #: TJA_000122A-166659

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

PH			MCL	E150.1	Units: pH Units		
pH	7	0.10		1	01/19/00 15:30	EC	161513

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 29
1/24/00 6:58:05 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#7A-C

Collected: 1/18/00 12:28:00 SPL Sample ID: 00010384-03

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		01/20/00 4:12	D_R	162226
Ethylbenzene	ND	1	1		01/20/00 4:12	D_R	162226
Toluene	ND	1	1		01/20/00 4:12	D_R	162226
m,p-Xylene	ND	1	1		01/20/00 4:12	D_R	162226
o-Xylene	ND	1	1		01/20/00 4:12	D_R	162226
Xylenes, Total	ND	1	1		01/20/00 4:12	D_R	162226
Surr: 1,4-Difluorobenzene	90.5 %	72-137	1		01/20/00 4:12	D_R	162226
Surr: 4-Bromofluorobenzene	91.7 %	48-156	1		01/20/00 4:12	D_R	162226
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.032	0.00100	1		01/20/00 11:00	AB	162365
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.0240	0	1		01/20/00 0:00	SUB	162897
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	7560	500	500		01/21/00 10:30	ES	163807
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	28600	100	10		01/21/00 17:00	GJ	165014

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 30
1/24/00 6:58:06 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#14D

Collected: 1/18/00 1:10:00

SPL Sample ID: 00010384-04

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BICARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Bicarbonate	648	1	1		01/20/00 11:00	AB	162327
CARBONATE, AS CaCO₃				MCL	E310.1	Units: mg/L	
Alkalinity, Carbonate	ND	2	1		01/20/00 11:00	AB	162337
CHLORIDE, TOTAL				MCL	E325.3	Units: mg/L	
Chloride	11200	250	250		01/21/00 10:30	CV	163579
MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND	0.0002	1		01/20/00 0:00	PB	162935

Run ID/Seq #: HGL_000120A-162935

Prep Method	Prep Date	Prep Initials
SW7470A	01/20/2000 9:45	PB

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/L	
Arsenic	0.00819	0.005	1		01/23/00 11:51	JM 165549
Lead	ND	0.005	1		01/23/00 11:51	JM 165549
Selenium	ND	0.005	1		01/23/00 11:51	JM 165549
Barium	0.0405	0.005	1		01/22/00 14:45	EG 166662
Cadmium	ND	0.005	1		01/22/00 14:45	EG 166662
Calcium	633	0.1	1		01/22/00 14:45	EG 166662
Chromium	ND	0.01	1		01/22/00 14:45	EG 166662
Iron	1.98	0.02	1		01/22/00 14:45	EG 166662
Magnesium	276	0.1	1		01/22/00 14:45	EG 166662
Potassium	71.6	2	1		01/22/00 14:45	EG 166662
Silver	ND	0.01	1		01/22/00 14:45	EG 166662
Sodium	4130	0.5	1		01/22/00 14:45	EG 166662

Run ID/Seq #: TJAT_000122B-165549

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

Run ID/Seq #: TJA_000122A-166662

Prep Method	Prep Date	Prep Initials
SW3010A	01/19/2000 13:30	AA

PH			MCL	E150.1	Units: pH Units	
pH	7	0.10	1		01/19/00 15:30	EC 161514

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 41

1/24/00 6:58:13 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID MW#14D

Collected: 1/18/00 1:10:00

SPL Sample ID: 00010384-04

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	9.6	1	1		01/21/00 9:32	D_R	163512
Ethylbenzene	17	1	1		01/21/00 9:32	D_R	163512
Toluene	1.4	1	1		01/21/00 9:32	D_R	163512
m,p-Xylene	22	1	1		01/21/00 9:32	D_R	163512
o-Xylene	2	1	1		01/21/00 9:32	D_R	163512
Xylenes, Total	24	1	1		01/21/00 9:32	D_R	163512
Surr: 1,4-Difluorobenzene	78.6	% 72-137	1		01/21/00 9:32	D_R	163512
Surr: 4-Bromofluorobenzene	107	% 48-156	1		01/21/00 9:32	D_R	163512
RESISTANCE @ 25 C			MCL	120.1	Units: Mohms/cm		
Resistance	0.038	0.00100	1		01/20/00 11:00	AB	162366
SPECIFIC GRAVITY			MCL	ASTM D-4052	Units: Specific Gravity@6		
Specific Gravity	1.0189	0	1		01/20/00 0:00	SUB	162898
SULFATE, TOTAL			MCL	E375.4	Units: mg/L		
Sulfate	3060	250	250		01/21/00 10:30	ES	163808
TOTAL DISSOLVED SOLIDS			MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	24000	100	10		01/21/00 17:00	GJ	165015

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 42

1/24/00 6:58:14 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Trip Blank 12/28/99

Collected: 1/18/00

SPL Sample ID: 00010384-05

Site: Monument, NM

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		01/20/00 3:17	D_R	162224
Ethylbenzene	ND	1	1		01/20/00 3:17	D_R	162224
Toluene	ND	1	1		01/20/00 3:17	D_R	162224
m,p-Xylene	ND	1	1		01/20/00 3:17	D_R	162224
o-Xylene	ND	1	1		01/20/00 3:17	D_R	162224
Xylenes, Total	ND	1	1		01/20/00 3:17	D_R	162224
Surr: 1,4-Difluorobenzene	90.8	% 72-137	1		01/20/00 3:17	D_R	162224
Surr: 4-Bromofluorobenzene	94.3	% 48-156	1		01/20/00 3:17	D_R	162224

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

00010384 Page 51
1/24/00 6:58:20 PM

Quality Control Documentation



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00010384
Lab Batch ID: R7790

Method Blank

RunID: VARE_000120A-162222 Units: ug/L
Analysis Date: 01/20/2000 2:50 Analyst: D_R

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01A	MW#1A-C
00010384-02A	MW#5A-C
00010384-03A	MW#7A-C
00010384-05A	Trip Blank 12/28/99

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	91.5	72-137
Surr: 4-Bromofluorobenzene	94.5	48-156

Laboratory Control Sample (LCS)

RunID: VARE_000120A-162221 Units: ug/L
Analysis Date: 01/20/2000 1:55 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	50	100	61	119
Ethylbenzene	50	49	99	70	118
Toluene	50	50	101	65	125
m,p-Xylene	100	100	104	72	116
o-Xylene	50	51	103	72	117
Xylenes, Total	150	151	101	72	117

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010403-01
RunID: VARE_000120A-163408 Units: ug/L
Analysis Date: 01/20/2000 15:39 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18	89.5	20	18	90.5	1.09	21	32	164
Ethylbenzene	ND	20	17	86.7	20	17	86.4	0.373	19	52	142
Toluene	ND	20	18	88.9	20	18	92.0	3.50	20	38	159
m,p-Xylene	ND	40	37	92.8	40	37	92.9	0.107	17	53	144
o-Xylene	ND	20	20	98.8	20	20	99.3	0.478	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00010384
Lab Batch ID: R7790

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010403-01
RunID: VARE_000120A-163408 Units: ug/L
Analysis Date: 01/20/2000 15:39 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	ND	60	57	95.0	60	57	95.0	0	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00010384
Lab Batch ID: R7853

Method Blank

Samples In Analytical Batch:

RunID: VARE_000120C-163507 Units: ug/L
Analysis Date: 01/21/2000 0:01 Analyst: D_R

Lab Sample ID 00010384-04A
Client Sample ID MW#14A-C

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	92.8	72-137
Surr: 4-Bromofluorobenzene	94.5	48-156

Laboratory Control Sample (LCS)

RunID: VARE_000120C-163506 Units: ug/L
Analysis Date: 01/20/2000 23:05 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	49	99	61	119
Ethylbenzene	50	49	98	70	118
Toluene	50	50	100	65	125
m,p-Xylene	100	100	103	72	116
o-Xylene	50	50	101	72	117
Xylenes, Total	150	150	100	72	117

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010405-01
RunID: VARE_000120C-163509 Units: ug/L
Analysis Date: 01/21/2000 0:56 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	12	58.9	20	18	87.8	39.4*	21	32	164
Ethylbenzene	ND	20	11	54.7	20	17	82.6	40.6*	19	52	142
Toluene	ND	20	12	58.4	20	18	87.1	39.5*	20	38	159
m,p-Xylene	ND	40	23	57.5	40	35	86.8	40.6*	17	53	144
o-Xylene	ND	20	13	63.5	20	19	96.4	41.1*	18	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00010384
Lab Batch ID: R7853

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010405-01
RunID: VARE_000120C-163509 Units: ug/L
Analysis Date: 01/21/2000 0:56 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylenes, Total	ND	60	36	60.0	60	54	90.0	40.0*	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00010384
Lab Batch ID: 2675

Method Blank

Samples in Analytical Batch:

RunID: TJAT_000122B-165537 Units: mg/L
Analysis Date: 01/23/2000 10:36 Analyst: JM
Preparation Date: 01/19/2000 13:30 Prep By: _AA Method SW3010A

Lab Sample ID	Client Sample ID
00010384-01B	MW#1A-D
00010384-02B	MW#5D
00010384-03B	MW#7D
00010384-04B	MW#14D

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Barium	ND	0.005
Cadmium	ND	0.005
Calcium	ND	0.1
Chromium	ND	0.01
Iron	ND	0.02
Lead	ND	0.005
Magnesium	ND	0.1
Selenium	ND	0.005
Silver	ND	0.01

Laboratory Control Sample (LCS)

RunID: TJAT_000122B-165538 Units: mg/L
Analysis Date: 01/23/2000 10:42 Analyst: JM
Preparation Date: 01/19/2000 13:30 Prep By: _AA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	3.93	98	80	120
Barium	2	2.06	103	80	120
Cadmium	2	1.96	98	80	120
Calcium	20	20.9	105	80	120
Chromium	2	2.1	105	80	120
Iron	2	2.03	101	80	120
Lead	2	1.99	99	80	120
Magnesium	20	20.5	103	80	120
Selenium	4	3.87	97	80	120
Silver	2	2	100	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: TJA_000122A-166653 Units: mg/L
Analysis Date: 01/22/2000 14:10 Analyst: EG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
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Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

00010384 Page 57

1/24/00 6:58:25 PM



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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00010384
Lab Batch ID: 2675

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: TJA_000122A-166653 Units: mg/L
Analysis Date: 01/22/2000 14:10 Analyst: EG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	4.9	1	5.92	99.4	1	5.93	100	1.03	20	75	125
Cadmium	ND	1	1.01	101	1	1.02	102	1.15	20	75	125
Calcium	110	10	117	93.4	10	118	105	12.0	20	75	125
Chromium	ND	1	1.02	102	1	1.03	103	0.783	20	75	125
Iron	5.3	1	6.26	91.2	1	6.36	101	10.6	20	75	125
Magnesium	62	10	72.2	98.9	10	72.8	105	6.29	20	75	125
Potassium	5.6	10	16.3	106	10	16.5	108	1.69	20	75	125
Silver	ND	1	1.03	103	1	1.03	103	0.299	20	75	125
Sodium	140	10	143	78.4	10	143	82.1	4.59	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



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HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00010384
Lab Batch ID: 2675-T

Method Blank

RunID: TJAT_000122B-165537 Units: mg/L
Analysis Date: 01/23/2000 10:36 Analyst: JM
Preparation Date: 01/19/2000 13:30 Prep By: _AA Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01B	MW#1A-D
00010384-02B	MW#5D
00010384-03B	MW#7D
00010384-04B	MW#14D

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Barium	ND	0.005
Cadmium	ND	0.005
Calcium	ND	0.1
Chromium	ND	0.01
Iron	ND	0.02
Lead	ND	0.005
Magnesium	ND	0.1
Selenium	ND	0.005
Silver	ND	0.01

Laboratory Control Sample (LCS)

RunID: TJAT_000122B-165538 Units: mg/L
Analysis Date: 01/23/2000 10:42 Analyst: JM
Preparation Date: 01/19/2000 13:30 Prep By: _AA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	4	3.93	98	80	120
Barium	2	2.06	103	80	120
Cadmium	2	1.96	98	80	120
Calcium	20	20.9	105	80	120
Chromium	2	2.1	105	80	120
Iron	2	2.03	101	80	120
Lead	2	1.99	99	80	120
Magnesium	20	20.5	103	80	120
Selenium	4	3.87	97	80	120
Silver	2	2	100	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: TJAT_000122B-165540 Units: mg/L
Analysis Date: 01/23/2000 10:54 Analyst: JM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
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Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

00010384 Page 59

1/24/00 6:58:26 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 00010384
Lab Batch ID: 2675-T

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: TJAT_000122B-165540 Units: mg/L
Analysis Date: 01/23/2000 10:54 Analyst: JM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	0.045	2	2.12	104	2	2.13	104	0.400	20	75	125
Lead	ND	1	1	100	1	0.995	99.4	0.790	20	75	125
Selenium	ND	2	2.03	101	2	2.01	100	1.02	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 00010384
Lab Batch ID: 2685

Method Blank

Samples in Analytical Batch:

RunID: HGL_000120A-162926 Units: mg/L
Analysis Date: 01/20/2000 0:00 Analyst: PB
Preparation Date: 01/20/2000 9:45 Prep By: PB Method SW7470A

Lab Sample ID	Client Sample ID
00010384-01B	MW#1A-D
00010384-02B	MW#5D
00010384-03B	MW#7D
00010384-04B	MW#14D

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID: HGL_000120A-162927 Units: mg/L
Analysis Date: 01/20/2000 0:00 Analyst: PB
Preparation Date: 01/20/2000 9:45 Prep By: PB Method SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002	0.00193	96	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: HGL_000120A-162929 Units: mg/L
Analysis Date: 01/20/2000 0:00 Analyst: PB
Preparation Date: 01/20/2000 9:45 Prep By: PB Method SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.00174	87.2	0.002	0.00177	88.4	1.37	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Specific Gravity
Method: ASTM D-4052

WorkOrder: 00010384
Lab Batch ID: R7823

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: pH
Method: E150.1

WorkOrder: 00010384
Lab Batch ID: R7754

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Laboratory Control Sample (LCS)

RunID: WET_000119G-161509 Units: pH Units
Analysis Date: 01/19/2000 15:30 Analyst: EC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7	7	100	99	101

Sample Duplicate

Original Sample: 00010384-01
RunID: WET_000119G-161510 Units: pH Units
Analysis Date: 01/19/2000 15:30 Analyst: EC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	7	7	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Bicarbonate, as CaCO₃
Method: E310.1

WorkOrder: 00010384
Lab Batch ID: R7795

Method Blank

RunID: WET_000120A-162319 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_000120A-162321 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Bicarbonate	11.8	11.8	100	90	110

Sample Duplicate

Original Sample: 0001313-01E
RunID: WET_000120A-162322 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate	223	221	1	20

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Carbonate, as CaCO₃
Method: E310.1

WorkOrder: 00010384
Lab Batch ID: R7796

Method Blank

RunID: WET_000120B-162329 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Analyte	Result	Rep Limit
Alkalinity, Carbonate	ND	2.0

Laboratory Control Sample (LCS)

RunID: WET_000120B-162331 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Carbonate	11.8	11.8	100	90	110

Sample Duplicate

Original Sample: 0001313-01E
RunID: WET_000120B-162332 Units: mg/L
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	0	20

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

00010384 Page 65

1/24/00 6:58:28 PM



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Resistance @ 25 C
Method: 120.1

WorkOrder: 00010384
Lab Batch ID: R7798

Method Blank

Samples in Analytical Batch:

RunID: WET_000120C-162351 Units: Mohms/cm
Analysis Date: 01/20/2000 11:00 Analyst: AB

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Analyte	Result	Rep Limit
Resistance	ND	0.0010

Laboratory Control Sample (LCS)

RunID: WET_000120C-162355 Units: Mohms/cm
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Resistance	1408.8	1390	99	90	110

Sample Duplicate

Original Sample: 0001359-02A
RunID: WET_000120C-162357 Units: Mohms/cm
Analysis Date: 01/20/2000 11:00 Analyst: AB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Resistance	0.007	0.007	0	10

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Chloride, Total
Method: E325.3

WorkOrder: 00010384
Lab Batch ID: R7855

Method Blank

RunID: WET_000121A-163571 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: CV

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Analyte	Result	Rep Limit
Chloride	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_000121A-163573 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: CV

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	212	208	98	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: WET_000121A-163575 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: CV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	29	50	79.6	100	50	77.8	96.8	3.65	20	76	131

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

00010384 Page 67

1/24/00 6:58:29 PM



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Sulfate, Total
Method: E375.4

WorkOrder: 00010384
Lab Batch ID: R7862

Method Blank

RunID: WET_000121C-163800 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: ES

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Analyte	Result	Rep Limit
Sulfate	ND	1.0

Laboratory Control Sample (LCS)

RunID: WET_000121C-163802 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: ES

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	26.8	25.8	96	82	111

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00010384-01
RunID: WET_000121C-163804 Units: mg/L
Analysis Date: 01/21/2000 10:30 Analyst: ES

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	5.4	5	10.5	101	5	10.4	99.5	1.81	9.5	84	120

Qualifiers: ND/U - Not Detected at the Reporting Limit

* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

00010384 Page 68

1/24/00 6:58:29 PM



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Quality Control Report

Dynegy Midstream Services Limited Partnership

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 00010384
Lab Batch ID: R7903A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00010384-01C	MW#1E
00010384-02C	MW#5E
00010384-03C	MW#7E
00010384-04C	MW#14E

Sample Duplicate

Original Sample: 00010384-01
RunID: WET_000121K-165011 Units: mg/L
Analysis Date: 01/21/2000 17:00 Analyst: GJ

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filtera	890	883	1	20

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL

*Chain of Custody
And
Sample Receipt Checklist*



SPL, Inc.

SPL Worksheet No:

079904

Analysis Request & Chain of Custody Record

00010384

page 1 of 2

Client Name: DYNEGY

Address/Phone: P.O. Box 67 (505) 343-2823

Client Contact: OSCAR DECEON

Project Name: 99 4th Bte

Project Number: MAULMONT, NM 88265

Project Location: Invoice To: SAME

SAMPLE ID DATE TIME comp grab

MW#1 4 1-18-2000 2:15pm

MW#1 B

MW#1 C

MW#1 D

MW#1 E

MW#5 1-18-2000 1:50pm

MW#5 B

MW#5 C

MW#5 D

MW#5 E

Matrix bottle size pres. Number of Containers

W=water S=soil SL=sludge O=other: P=plastic A=amber glass G=glass V=vial

1=1 liter 4=4oz 40=40ml 8=8oz 16=16oz

1=HCl 2=HNO3 3=H2SO4 O=other:

Requested TAT

Special Reporting Requirements

Standard QC Level 3 QC Level 4 QC

1. Relinquished by Samplet

3. Relinquished by:

5. Relinquished by:

8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777

Requested Analysis

BTEX

MAJOR CATIONS & ANIONS

PH & HEAVY METALS

RUSH

Intact? ☒ Y ☐ N

Temp: 4

PM review (initial):

Received by Laboratory:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:

Received by:



SPL, Inc.

SPL Worksheet No:

00010384

079905

page 2 of 2

Analysis Request & Chain of Custody Record

Requested Analysis

Client Name: DYNEGY 2823

Address/Phone: P.O. Box 67 (505) 393-4647

Client Contact: OSCAR DELEON

Project Name:

Project Number: 0944R DR

Project Location: MAINTENANCE, N111 88065

Invoice To: SAME

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	MAJOR CATIONS & ANIONS	PH & HEAVY METALS
MW #7 A	1-18-2000	12:28 pm			W	V	40	1		X	
MW #7 B					W	V	40	1		X	
MW #7 C					W	V	40	1		X	
MW #7 D					W	P	1	2		X	
MW #7 E					W	P	1			X	
MW #14 A	1-18-2000	1:10 pm			W	V	40	1		X	
MW #14 B					W	V	40	1		X	
MW #14 C					W	V	40	1		X	
MW #14 D					W	P	1	2		X	
MW #14 E					W	P	1			X	

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☐ N
Temp: 4

Requested TAT

Special Reporting Requirements

Fax Results

☐

Raw Data

☐

Special Detection Limits (specify):

PM review (initial):

Standard QC ☐Level 3 QC ☐Level 4 QC ☐24hr ☒ 72hr ☐48hr ☐ Standard ☐Other ☐

1. Relinquished by Sampler:

3. Relinquished by:

5. Relinquished by:

2. Received by:

4. Received by:

6. Received by Laboratory:

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901
☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775



HOUSTON LABORATORY
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(713) 660-0901

Sample Receipt Checklist

Workorder: 00010384

Received by: Barrera, Nancy

Date and Time Received: 1/19/00 10:00:00 AM

Carrier name: FedEx

Temperature: 4

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	Yes ☒	No ☐	Not Present ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

