1R - 103

Annual GW Mon. REPORTS

DATE:
2007

2007
ANNUAL MONITORING REPORT

LF-59

LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 32, TOWNSHIP 19 SOUTH, RANGE 37 EAST
PLAINS EMS NUMBER: TNM-LF-59
NMOCD FILE NUMBER: 1R-0103

Prepared For:

PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002

NOVA safety and environmental

Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2008

Curt Stanley
Project Manager

Todd K. Choban, P.G.
Vice President Technical Services

March 28, 2008

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Reports
25 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

TNM 97-17	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	Section 28, Township 20 South, Range 37 East, Lea County
TNM 98-05A	Section 26, Township 21 South, Range 37 East, Lea County
TNM 98-05B	Section 26, Township 21 South, Range 37 East, Lea County
TNM 97-04	Section 11, Township 16 South, Range 35 East, Lea County
Texaco Skelly "F"	Section 21, Township 20 South, Range 37 East, Lea County
Darr Angell #2	Section 14, Township 15 South, Range 37 East, Lea County
LF-59	Section 32, Township 19 South, Range 37 East, Lea County
SPS-11	Section 18, Township 18 South, Range 36 East, Lea County
Monument #10	Section 32, Township 19 South, Range 37 East, Lea County
Monument #17	Section 29, Township 19 South, Range 37 East, Lea County
Monument #18	Section 7, Township 20 South, Range 37 East, Lea County
Lea Station to Monument 6"	Section 5, Township 20 South, Range 37 East, Lea County
34 Junction South Station	Section 2, Township 17 South, Range 36 East, Lea County
Bob Durham	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #1	Section 11, Township 15 South, Range 37 East, Lea County
Darr Angell #4	Sections 2 and 11, Township 15 South, Range 37 East, Lea County
HDO 90-23	Section 6, Township 20 South, Range 37 East, Lea County
Junction 34 to Lea	Section 21, Township 20 South, Range 37 East, Lea County
Monument #2	Section 6, Township 20 South, Range 37 East, Lea County
Monument Barber 10" Sour	Section 32, Township 19 South, Range 37 East, Lea County
Monument #11	Section 30, Township 19 South, Range 37 East, Lea County
Red Byrd #1	Section 1, Township 20 South, Range 36 East, Lea County
South Monument Gathering	Section 5, Township 20 South, Range 37 East, Lea County
Denton Station	Section 14, Township 15 South, Range 37 East, Lea County

3112 West Highway 82 • Lovington, NM 88260 • (505) 396-3341

order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

ENCLOSED ON DATA DISK

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by NOVA. The LF-59 pipeline release site (the site), which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2007 only. However, historic data tables as well as 2007 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each of the four quarters during 2007 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled, with the exception of monitor well MW-4 in the 3rd quarter of the reporting period.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The LF-59 site occurred as two separate releases of unknown volumes on unknown dates. The release occurred from an 8-inch pipeline and was attributed to structural failure associated with internal pipeline corrosion. Approximately 6,900 cubic yards of impacted soil was excavated, sorted, shredded and combined with fertilizer to enhance bioremediation rates. Approximately 550 cubic yards of caliche rock was also stockpiled on-site as a result of the previously referenced soil treatment activity. The soil was spread onto an on-site treatment cell for aeration in March 2003. Soil in the treatment cell was sampled for baseline concentrations of Total Petroleum Hydrocarbon (TPH) and Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations using EPA Methods 8015M and 8260b, respectively. The treatment cell was resampled on September 7, 2005, the analytical results of this sampling event indicate Total Petroleum Hydrocarbons (TPH) concentrations have decreased to levels ranging between <50 to 115 mg/Kg total TPH.

A *Soil Closure Strategy and Site Restoration Work Plan* (Work Plan) was submitted to the NMOCD in July 2006. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

On September 20, 2007, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Following the completion of the soil remediation activities, a *Soil Closure Request* dated February 2008 was submitted to the NMOCD for approval. On February

19, 2008, Plains received an email from the NMOCD approving the *Soil Closure Request* at the LF-59 release site.

As required by the NMOCD, groundwater monitoring and sampling will continue at the site.

Currently, eight groundwater monitor wells (MW-1 through MW-8) are on-site. Site access was restricted by the surface lessee during 2003 and was allowed to resume in 2004.

RECENT FIELD ACTIVITIES

During the 2007 reporting period, PSH was periodically detected in monitor well MW-4 and a hydrocarbon sheen was reported throughout the reporting period. Less than one gallon of PSH was recovered from monitor well MW-4 during the reporting period. Approximately 58 gallons (approximately 1.3 barrels) of PSH have been recovered from this site since project inception. Monitor well MW-1 exhibited sheen throughout the 1st quarter, but the sheen was not reported during the 2nd, 3rd and 4th quarters of 2007. A sheen was reported in monitor well MW-2 during the one gauging event.

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004

NMOCD Approved Sampling Schedule			
MW-1	Quarterly	MW-5	Annually
MW-2	Quarterly	MW-6	Annually
MW-3	Annually	MW-7	Semi-Annually
MW-4	Quarterly	MW-8	Quarterly

The site monitor wells were gauged and sampled on the following dates: February 21, May 16, August 10, and December 28, 2007. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric Grundfos pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2007 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.018 feet/foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7. This is consistent with data presented on Figures 2A and 2B from earlier in the year. The corrected groundwater elevations ranged between 3,546.70 and 3,553.85 feet above mean sea level, in MW-7 on December 28, 2007 and MW-5 on May 16, 2007, respectively.

LABORATORY RESULTS

Groundwater samples collected during the monitoring events of 2007 were delivered to TraceAnalysis of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8021b. A listing of BTEX constituent concentrations for 2007 is summarized in Table 2 and an electronic copy of the laboratory reports is provided on the enclosed disk. The quarterly groundwater sampling results for benzene and total BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0109 mg/L during the 3rd quarter to 0.283 mg/L during the 1st quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of 2007. Toluene concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0038 mg/L during the 3rd quarter to 0.140 mg/L during the 1st quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of 2007. Xylene concentrations ranged from 0.0099 mg/L during the 1st quarter to 0.356 mg/L during the 2nd quarter of the reporting period. Xylene concentrations were below NMOCD during all four quarters of 2007.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2nd quarter to 0.004 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0057 mg/L during the 4th quarter to 0.01 mg/L during the 1st and 2nd quarters of the reporting period. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.0074 mg/L during the 4th quarter to 0.01 mg/L during the 1st and 2nd quarters of the reporting period. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twelve consecutive quarters.

Monitor well MW-3 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-seven consecutive quarters.

Monitor well MW-4 is sampled on a quarterly schedule and analytical results indicate benzene, toluene and ethylbenzene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from

<0.001 mg/L during the 3rd quarter to 0.005 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period.

Please note a PSH thickness of 0.02 feet was reported in monitor well MW-4 during the 3rd quarter of the reporting period. Monitor well MW-4 was sampled in the 3rd quarter based on historic analytical results, which indicate groundwater samples collected from monitor well MW-4 and the sheen and measurable PSH observed in this well have not resulted in the elevation of BTEX constituent concentrations above the NMOCD regulatory standard.

Monitor well MW-5 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-seven consecutive quarters. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-seven consecutive quarters.

Monitor well MW-6 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-one consecutive quarters.

Monitor well MW-7 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-one consecutive quarters.

Monitor well MW-8 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last eleven consecutive quarters.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

Eight groundwater monitor wells (MW-1 through MW-8) are currently on-site. During the 2007 reporting period, PSH was periodically reported in monitor well MW-4 and a hydrocarbon sheen was reported throughout the reporting period. Monitor well MW-1 exhibited hydrocarbon sheen during the 1st quarter, but the sheen was not reported during the 2nd, 3rd and 4th quarters of 2007. A sheen was reported in monitor well MW-2 during the one gauging event.

Less than one gallon of PSH was recovered from monitor well MW-4 during the reporting period. Approximately 58 gallons (approximately 1.3 barrels) of PSH have been recovered from this site since project inception.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.018 feet/foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7. This is consistent with data presented on Figures 2A and 2B from earlier in the year.

A review of the laboratory analytical results for groundwater samples collected during the reporting period indicates benzene concentrations were above the NMOCD regulatory standard and toluene, ethylbenzene and xylene concentrations were below NMOCD regulatory standards in monitor well MW-1 only. All other monitor well groundwater samples exhibited BTEX constituent concentrations below the NMOCD regulatory standard during the reporting period.

Dissolved phase impact above the NMOCD regulatory standard appears to be limited to monitor well MW-1. Based on the analytical results from groundwater samples collected from monitor well MW-4, the sheen and measurable PSH observed in this well has not resulted in the elevation of BTEX constituent concentrations above the NMOCD regulatory standard during the 2007 reporting period.

ANTICIPATED ACTIONS

Plains, respectfully requests NMOCD approval to plug and abandon monitor well MW-6. Monitor well MW-6 was installed in 2001 and analytical results indicate BTEX constituent concentrations have been below the MDL and NMOCD regulatory standard during each sampling event since the installation of the monitor well. Monitor wells MW-3 and MW-5 located west or cross gradient of monitor well MW-6, have exhibited BTEX constituent concentrations below the MDL and NMOCD regulatory standard since the installation of these monitor wells and adequately define the dissolved phase hydrocarbon plume. Upon NMOCD approval, a New Mexico licensed water well driller will plug and abandon the monitor well as required by and in the manner stipulated by the New Mexico State Engineer.

Groundwater monitoring and quarterly sampling will continue through 2008. An annual groundwater monitoring report will be submitted by April 1, 2009. Soil remediation activities were recently completed at the site and the NMOCD verbally agreed to close the soil issue on February 12, 2007.

LIMITATIONS

NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the

genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

DISTRIBUTION

Copy 1 Ed Hansen
New Mexico Energy, Minerals and Natural Resources Department
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Santa Fe, NM 87505

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New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
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Hobbs, NM 88240

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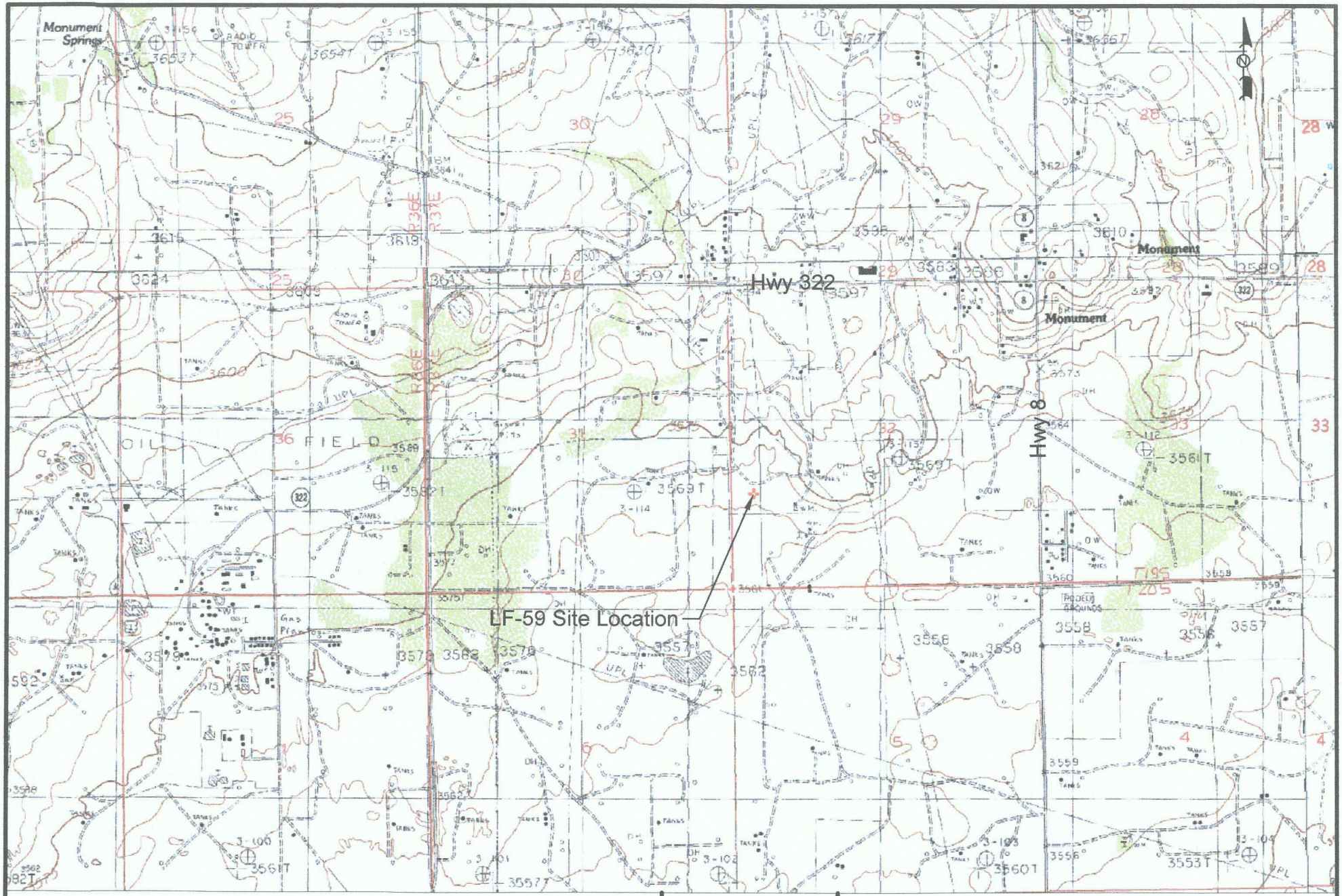
Midland, TX 79703
cstanley@novatraining.cc

Figures



NW 1/4 SW 1/4 Sec 32 T19S, R37E
32° 36' 50.1" N
103° 16' 47.6" W

NMOCD Reference # 1R-0103

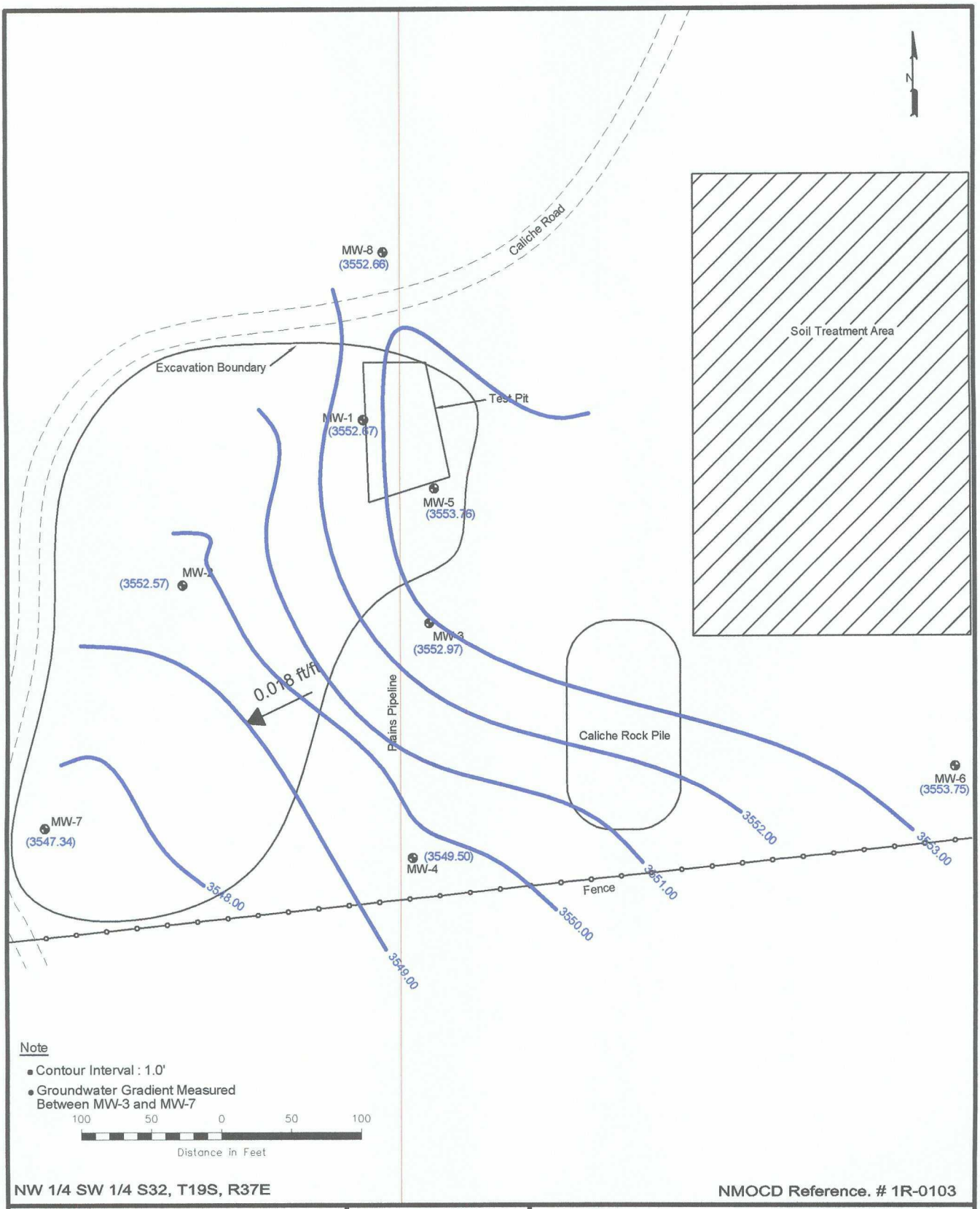
Figure 1
Site Location Map

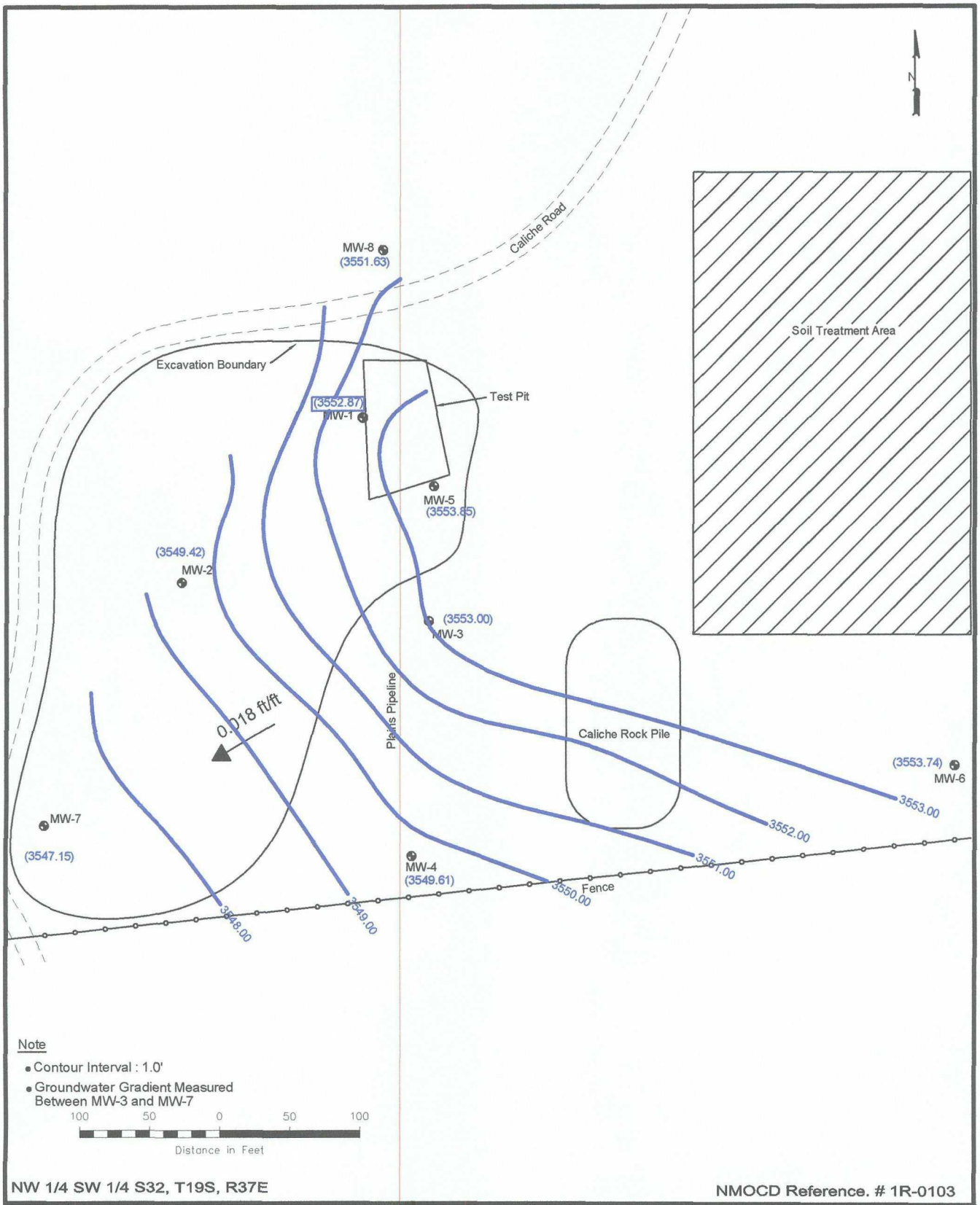
Plains Marketing, L.P.
LF - 59
Monument, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: NTS	Prep By: DPM	Checked By: MRE
February 15, 2005		


N
Caliche Road
MW-8
(3552.66)
Excavation Boundary
Test Pit
MW-1
(3552.67)
MW-5
(3553.76)
Soil Treatment Area
MW-2
(3552.57)
MW-3
(3552.97)
0.018 ft/ft
Plains Pipeline
Caliche Rock Pile
MW-6
(3553.75)
MW-7
(3547.34)
(3549.50)
MW-4
Fence
3552.00
3553.00
3551.00
3550.00
3549.00
3548.00
Note
Contour Interval : 1.0'
Groundwater Gradient Measured Between MW-3 and MW-7
100 50 0 50 100
Distance in Feet
NW 1/4 SW 1/4 S32, T19S, R37E
NMOCD Reference. # 1R-0103
LEGEND:
Monitor Well Location
(3547.11) Groundwater Elevation in Feet
Groundwater Elevation Contour Line
0.001 ft/ft Groundwater Gradient and Magnitude
Figure 2A
NMOCD Inferred Groundwater Gradient Map (02/21/07)
Plains Marketing, L.P.
LF - 59
Monument, NM
NOVA Safety and Environmental
NOVA safety and environmental
Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W
Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E
CAD By: DGC
Checked By: CDS
October 26, 2007



LEGEND:

- Monitor Well Location
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2B

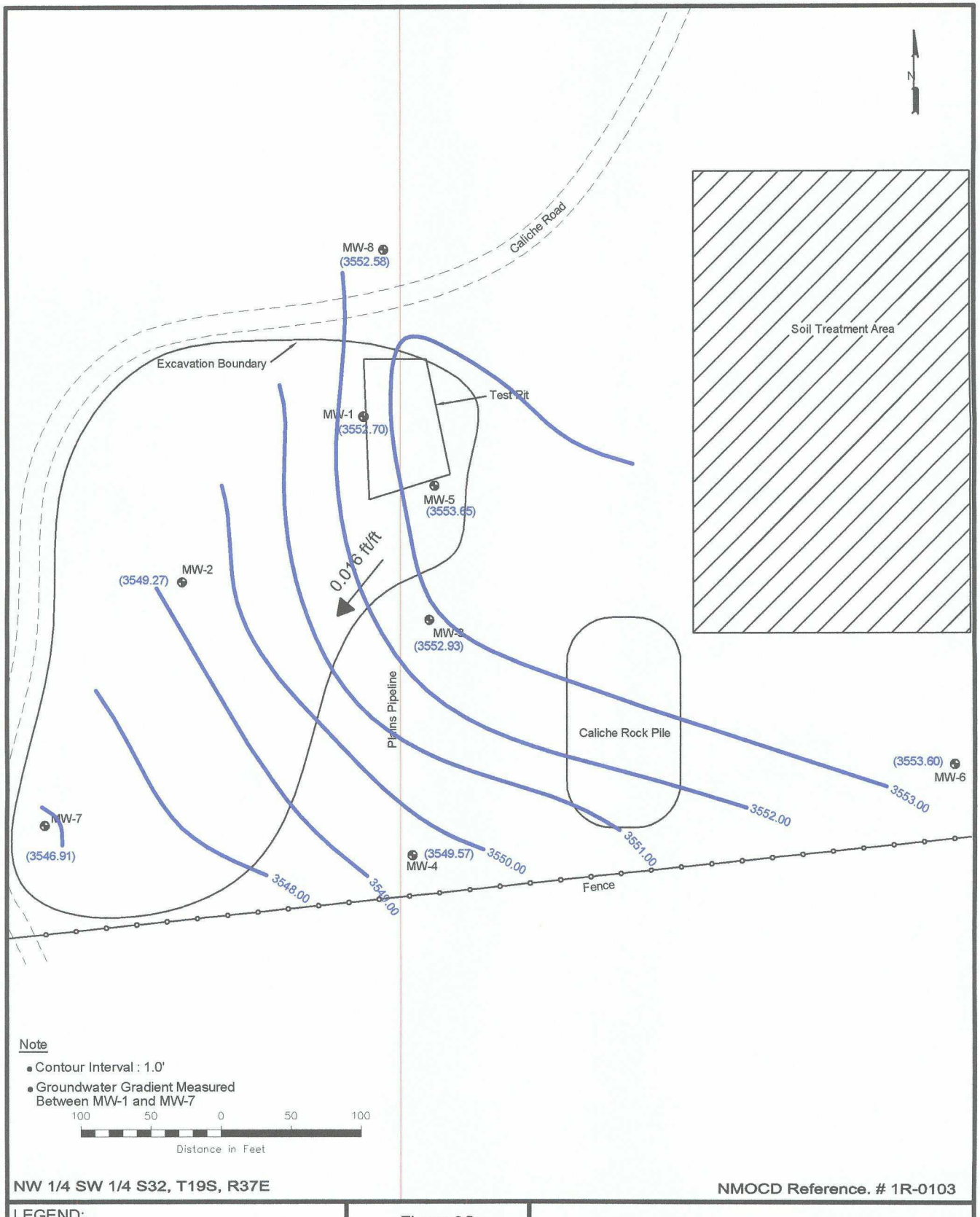
NMOCD Inferred Groundwater Gradient Map (05/16/07)

Plains Marketing, L.P.

LF - 59
Monument, NM

NOVA Safety and Environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
January 30, 2008		



LEGEND:

- Monitor Well Location
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2C

NMOCD Inferred Groundwater Gradient Map (08/10/07)

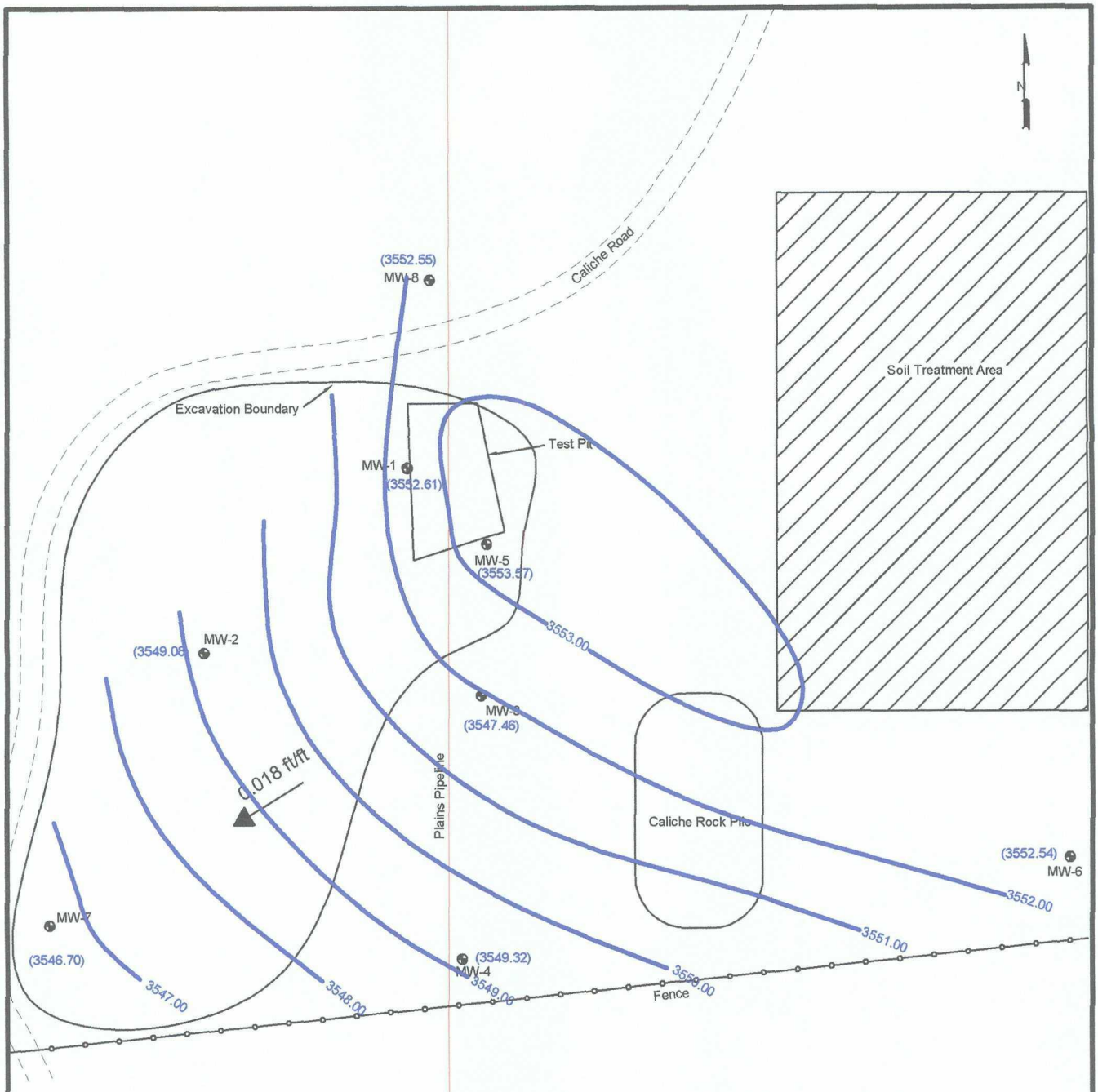
Plains Marketing, L.P.

LF - 59
Monument, NM

NOVA Safety and Environmental

NOVA safety and environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
October 26, 2007		



NW 1/4 SW 1/4 S32, T19S, R37E

NMOCD Reference. # 1R-0103

LEGEND:

- Monitor Well Location
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2D

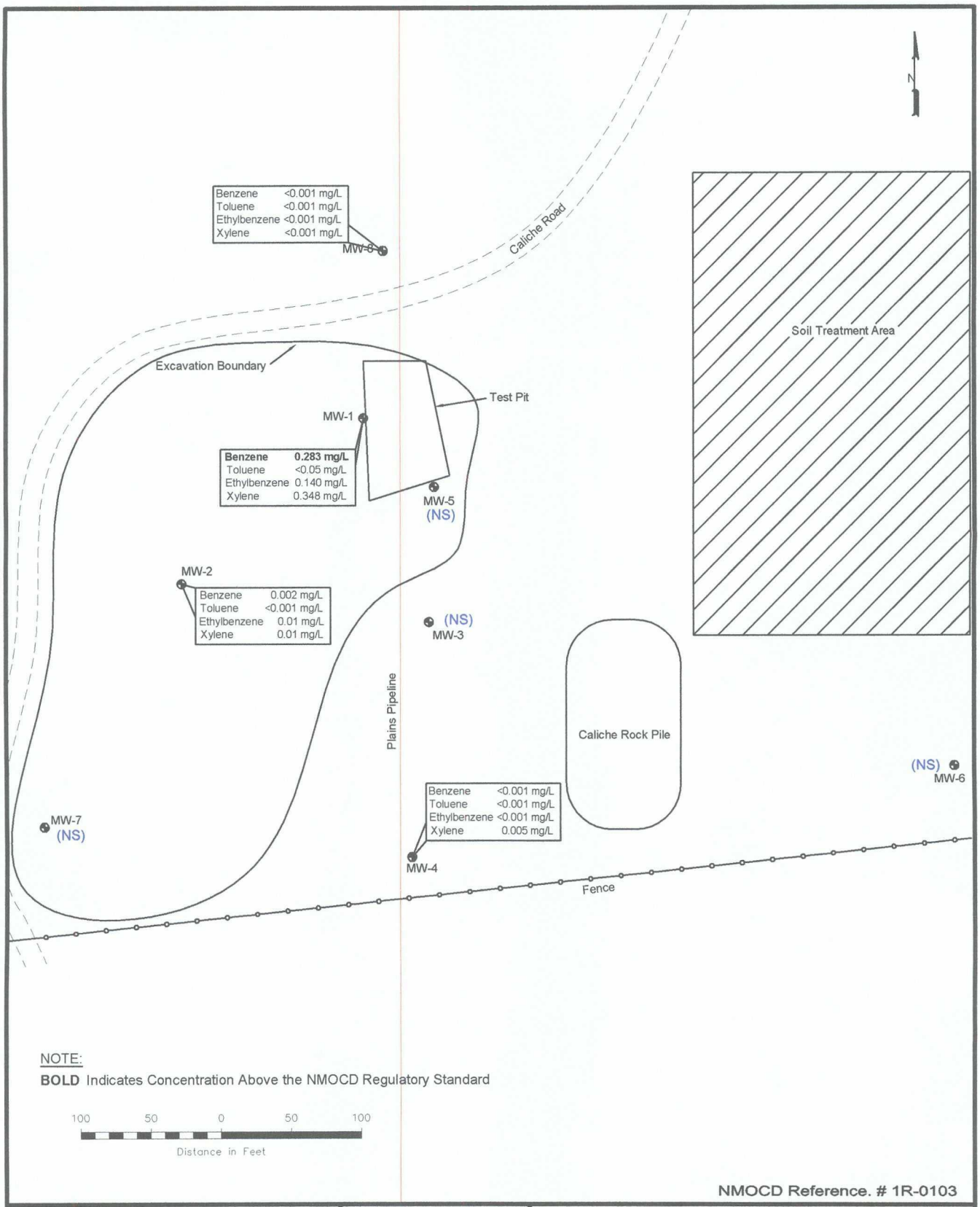
NMOCD Inferred Groundwater Gradient Map (12/28/07)

Plains Marketing, L.P.

LF - 59
Monument, NM

NOVA Safety and Environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
February 27, 2008		



NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

100 50 0 50 100

Distance in Feet

NMOCD Reference. # 1R-0103

LEGEND:

⊕	Monitor Well Location
<0.001	Constituent Concentration (mg/L)
(NS)	Not Sampled

Figure 3A

NMOCD Groundwater Concentration and Inferred PSH Extent Map (02/21/07)

Plains Marketing, L.P.

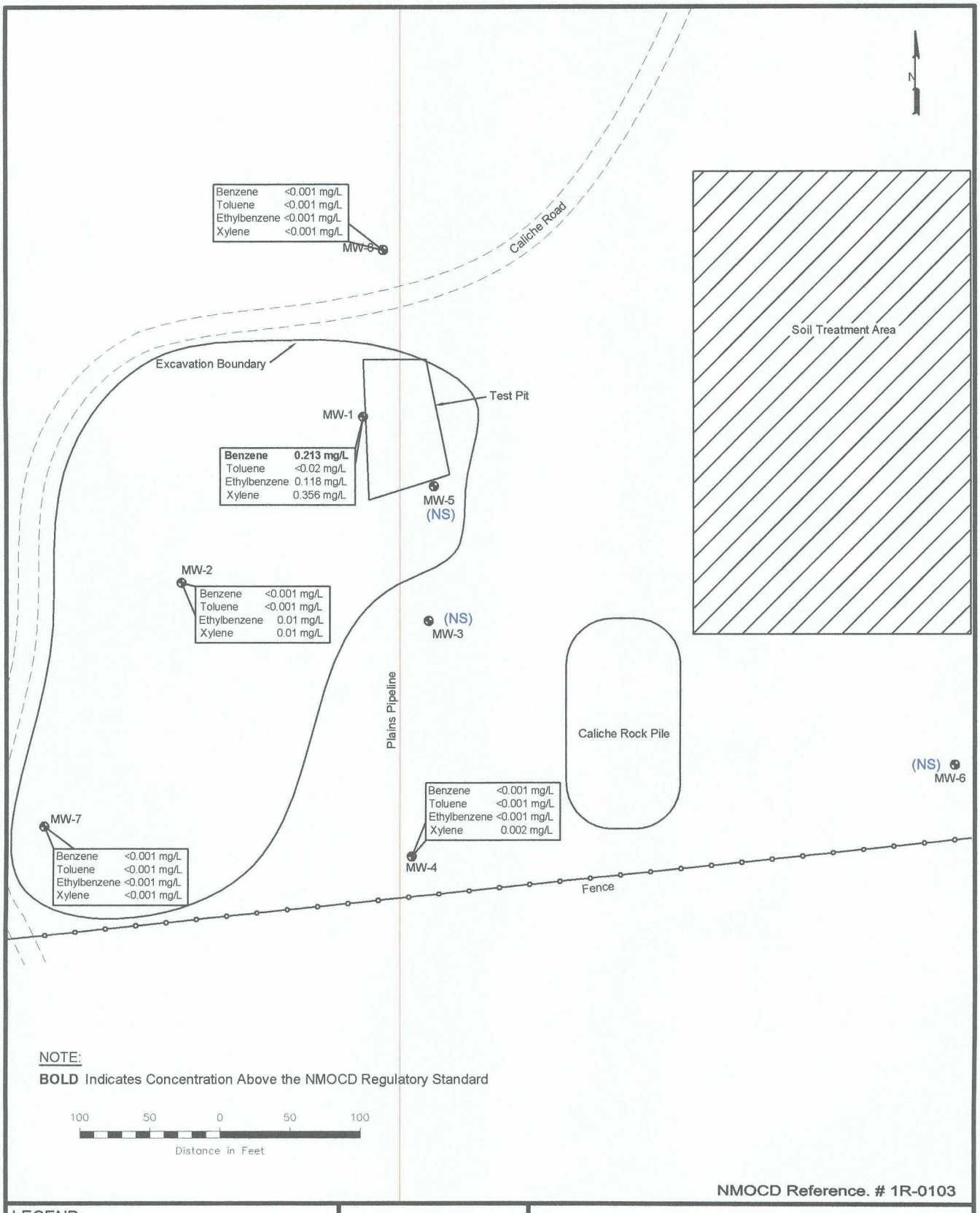
LF - 59

Monument, NM

NOVA Safety and Environmental

NOVA safety and environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
September 25, 2007		



NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

100 50 0 50 100

Distance in Feet

NMOCD Reference. # 1R-0103

LEGEND:

- Monitor Well Location
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3B

NMOCD Groundwater Concentration and Inferred PSH Extent Map (05/16/07)

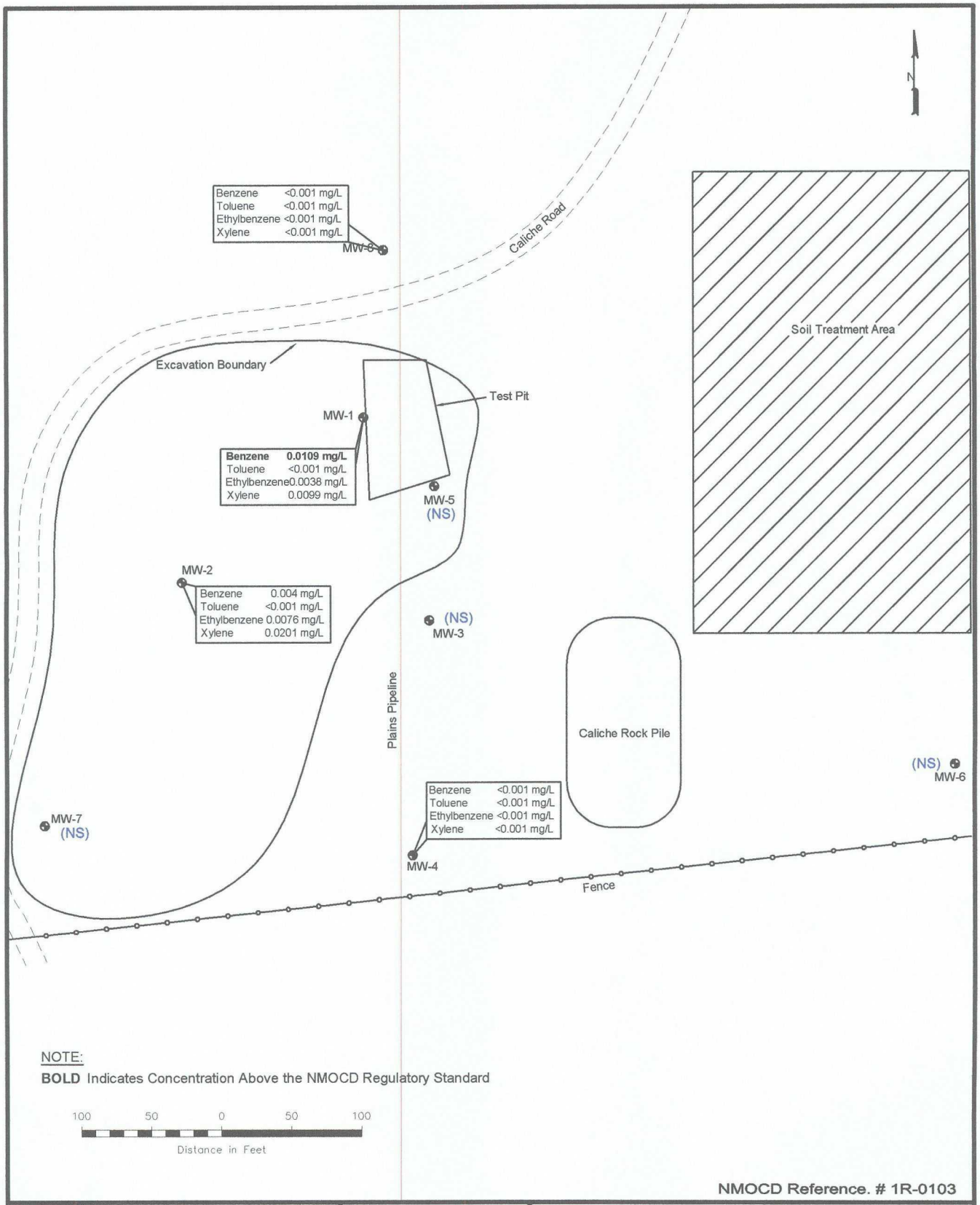
Plains Marketing, L.P.

LF - 59

Monument, NM

NOVA Safety and Environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
September 25, 2007		



LEGEND:

- Monitor Well Location
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3C

NMOCD Groundwater Concentration and Inferred PSH Extent Map (08/10/07)

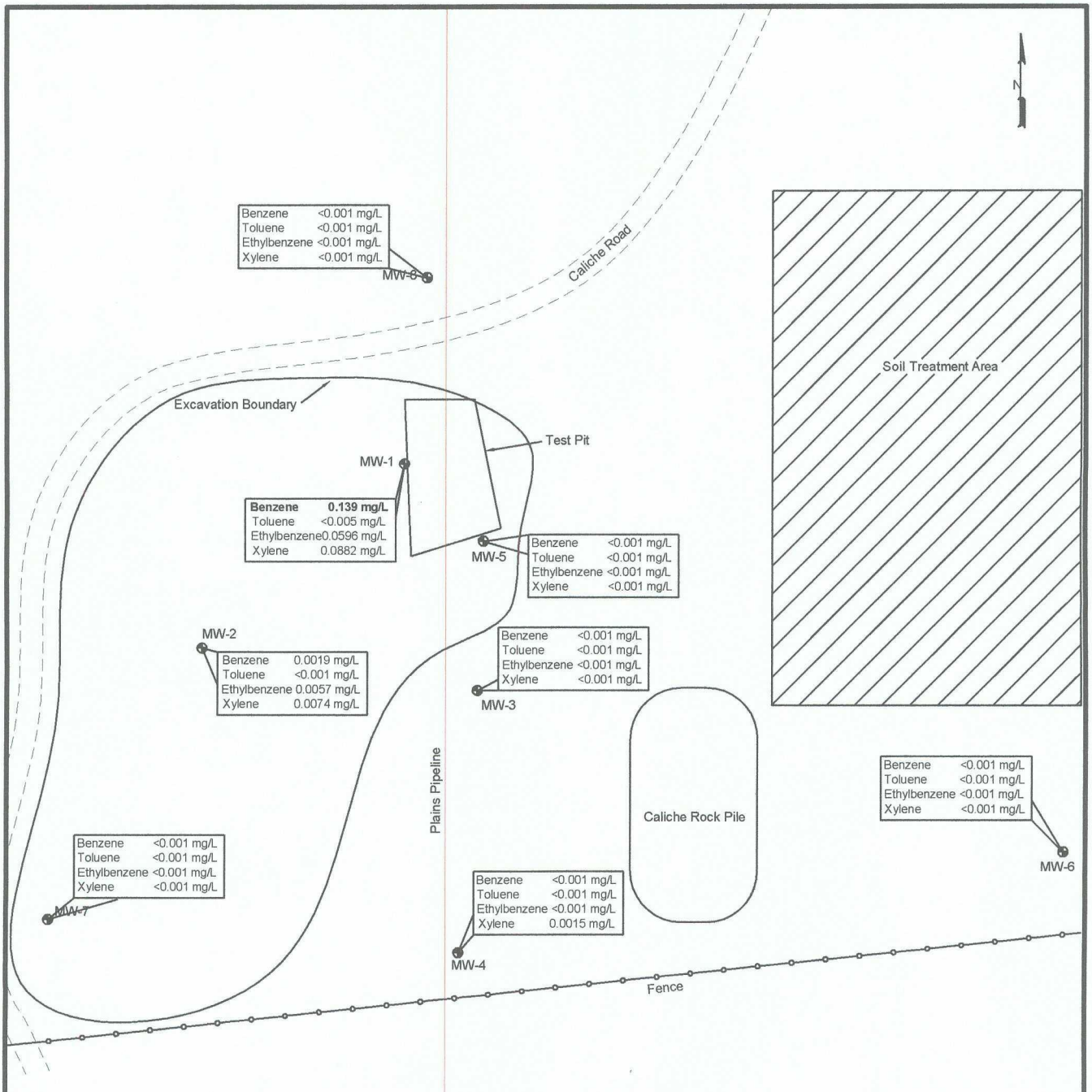
Plains Marketing, L.P.

LF - 59

Monument, NM

NOVA Safety and Environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
September 25, 2007		



NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

NMOCD Reference. # 1R-0103

LEGEND:

- Monitor Well Location
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3D

NMOCD Groundwater Concentration and Inferred PSH Extent Map (12/28/07)

Plains Marketing, L.P.

LF - 59

Monument, NM

NOVA Safety and Environmental

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W		Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	CAD By: DGC	Checked By: CDS
January 25, 2008		

Tables

TABLE 1

2007 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW-1	01/11/07	3,572.21	Sheen	19.40	0.00	3,552.81
	02/05/07	3,572.21	Sheen	19.43	0.00	3,552.78
	02/21/07	3,572.21	-	19.54	0.00	3,552.67
	03/27/07	3,572.21	Sheen	19.44	0.00	3,552.77
	05/16/07	3,572.21	-	19.34	0.00	3,552.87
	08/10/07	3,572.21	-	19.51	0.00	3,552.70
	12/28/07	3,572.21	-	19.60	0.00	3,552.61
MW-2	01/11/07	3,571.46	Sheen	21.40	0.00	3,550.06
	02/21/07	3,571.46	-	21.89	0.00	3,549.57
	05/16/07	3,571.46	-	22.04	0.00	3,549.42
	08/10/07	3,571.46	-	22.19	0.00	3,549.27
	12/28/07	3,571.46	-	22.38	0.00	3,549.08
MW-3	*02/21/07*	3,573.46	-	20.49	0.00	3,552.97
	05/16/07	3,573.46	-	20.46	0.00	3,553.00
	08/10/07	3,573.46	-	20.53	0.00	3,552.93
	12/28/07	3,573.46	-	26.00	0.00	3,547.46
MW-4	01/11/07	3,570.15	20.42	20.43	0.01	3,549.73
	02/05/07	3,570.15	Sheen	20.49	0.00	3,549.66
	02/21/07	3,570.15	Sheen	20.65	0.00	3,549.50
	03/27/07	3,570.15	20.52	20.54	0.02	3,549.63
	05/16/07	3,570.15	Sheen	20.54	0.00	3,549.61
	08/10/07	3,570.15	20.56	20.58	0.02	3,549.59
	12/28/07	3,570.15	Sheen	20.83	0.00	3,549.32
MW-5	*02/21/07*	3,572.92	-	19.16	0.00	3,553.76
	05/16/07	3,572.92	-	19.07	0.00	3,553.85
	08/10/07	3,572.92	-	19.27	0.00	3,553.65
	12/28/07	3,572.92	-	19.35	0.00	3,553.57
MW-6	*02/21/07*	3,572.11	-	18.36	0.00	3,553.75
	05/16/07	3,572.11	-	18.37	0.00	3,553.74
	08/10/07	3,572.11	-	18.51	0.00	3,553.60
	12/28/07	3,572.11	-	19.57	0.00	3,552.54
MW-7	*02/21/07*	3,569.75	-	22.41	0.00	3,547.34
	05/16/07	3,569.75	-	22.60	0.00	3,547.15
	08/10/07	3,569.75	-	22.84	0.00	3,546.91
	12/28/07	3,569.75	-	23.05	0.00	3,546.70
MW-8	*02/21/07*	3,573.59	-	20.93	0.00	3,552.66
	05/16/07	3,573.59	-	21.96	0.00	3,551.63
	08/10/07	3,573.59	-	21.01	0.00	3,552.58
	12/28/07	3,573.59	-	21.04	0.00	3,552.55

Note: "-" denotes no PSH measured during gauging.
Elevations based on the North American Vertical Datum of 1929.

TABLE 2

2007 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o-XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW-1	02/21/07	**0.283**	<0.05	0.140	0.348	
	05/16/07	**0.213**	<0.02	0.118	0.356	
	08/10/07	**0.0109**	<0.001	0.0038	0.0099	
	12/28/07	**0.1390**	<0.005	0.0596	0.0882	
MW-2	02/21/07	0.002	<0.001	0.01	0.01	
	05/16/07	<0.001	<0.001	0.01	0.01	
	08/10/07	0.004	<0.001	0.0076	0.0201	
	12/28/07	0.0019	<0.001	0.0057	0.0074	
MW-3	02/21/07	Not Sampled on Current Sample Schedule				
	05/16/07	Not Sampled on Current Sample Schedule				
	08/10/07	Not Sampled on Current Sample Schedule				
	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW-4	02/21/07	<0.001	<0.001	<0.001	0.005	
	05/16/07	<0.001	<0.001	<0.001	0.002	
	08/10/07	<0.001	<0.001	<0.001	<0.001	
	12/28/07	<0.001	<0.001	<0.001	0.0015	
MW-5	02/21/07	Not Sampled on Current Sample Schedule				
	05/16/07	Not Sampled on Current Sample Schedule				
	08/10/07	Not Sampled on Current Sample Schedule				
	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW-6	02/21/07	Not Sampled on Current Sample Schedule				
	05/16/07	Not Sampled on Current Sample Schedule				
	08/10/07	Not Sampled on Current Sample Schedule				
	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW-7	02/21/07	Not Sampled on Current Sample Schedule				
	05/16/07	<0.001	<0.001	<0.001	<0.001	
	08/10/07	Not Sampled on Current Sample Schedule				
	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW-8	02/21/07	<0.001	<0.001	<0.001	<0.001	
	05/16/07	<0.001	<0.001	<0.001	<0.001	
	08/10/07	<0.001	<0.001	<0.001	<0.001	
	12/28/07	<0.001	<0.001	<0.001	<0.001	

Appendices

Appendix A
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form.

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company	Contact
EOTT Energy Pipeline Limited Partnership	**Glenn Waldrop**
Address	Telephone No.
P.O. Box 1660, Midland, TX 79702	**915/684-3453**
Facility Name	Facility Type
Monument 10" Sour (6")	**Pipeline**

Surface Owner	Mineral Owner	Lease No.
Barber Estate		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	32	19S	37E					Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Sour Crude Oil	**1,600 bbls**	**1,350 bbls**
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Pipeline valve flange.	**August 8, 2000**	**August 8, 2000 at 10 AM**
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? **Donna Williams – NMOCD, Hobbs District Office**	
By Whom? **Wayne Brunette**	Date and Hour **August 8, 2000**	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Poly weld broke on the west end of valve flange. Released oil was contained in a bell hole and ditch. Bellhole (35'x45'x10'deep) filled to top and oil flowed into a ditch 100 yards long. Oil was recovered with a vacuum truck.

Describe Area Affected and Cleanup Action Taken.*
Heavily impacted soil, from the ditch only, was excavated and hauled to a landfarm for treatment. Soils in the bellhole could not be excavated due to the presence of pipelines. ETGI has begun delineating the site and will prepare a remediation workplan

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Glenn Waldrop	OIL CONSERVATION DIVISION	
Printed Name: **Glenn Waldrop**	Approved by District Supervisor:	
Title: **District Manager**	Approval Date:	Expiration Date:
Date: **8/7/00** Phone: **915/684-3453**	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

MONUMENT BARBER
MONUMENT 10" SOUR