AP - 12

ANNUAL MONITORING REPORT

YEAR(S): 2008

2008
ANNUAL MONITORING REPORT

TNM 98-05A
NE 1/4 NW 1/4 OF SECTION 26, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS EMS NUMBER: TNM-98-05A
NMOCD Reference AP-12

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

February 2009

Ronald K. Rounsaville
Project Manager

Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

ENCLOSED ON DATA DISK

Historic Table 1 and 2 – Groundwater Elevation and BTEX, TPH, PAH Concentration Tables

INTRODUCTION

NOVA Safety and Environmental (NOVA), on behalf of Plains Pipeline, L.P. (Plains), has prepared this 2008 Annual Groundwater 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. This report is intended to be viewed as a complete document with figures, attachments, tables, and text. The report presents the results of four quarterly groundwater monitoring/sampling events conducted at the TNM 98-05A crude oil Release Site (the site), located in Lea County, New Mexico. The site, formerly the responsibility of Enron Oil Trading and Transportation (EOTT) is now the responsibility of Plains. For reference, the Site Location Map is provided as Figure 1.

Groundwater gauging and sampling was conducted during each quarter of 2008 to assess the levels and extent of Phase Separated Hydrocarbons (PSH) and dissolved phase constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells were not sampled if a measurable thickness of PSH were detected during gauging activities.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The site is located approximately two miles northeast of the city of Eunice, New Mexico. The legal description of the site is NE ¼, NW ¼, Section 26, Township 21 South, Range 37 East (Figure 1). On February 5, 1998, an estimated 38 barrels of crude oil were released from a six inch crude oil pipeline. Approximately four barrels of crude oil were recovered during the initial response activities. The release was attributed to internal corrosion of the pipeline. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A. Approximately 3,300 cubic yards of impacted soil was excavated and applied to an on-site treatment cell. In December 2004, a Site Restoration Work Plan and Proposed Soil Closure Strategy Report was submitted to the NMOCD. The report was approved by the NMOCD in a letter dated June 2, 2005. In October 2005, additional excavation along the east sidewall was completed, the excavation was backfilled with remediated soil and the site was graded to match the surrounding topography. In December 2005, a Soil Closure Request was submitted to the NMOCD and this request was approved by the NMOCD in a letter dated January 31, 2006. Plains proposes no further action with regard to soil remediation at the TNM-98-05A Site.

During the October 2005 excavation backfilling activities, monitor well MW-4 was damaged and could not be repaired. On January 9, 2006, Plains representatives requested NMOCD approval to plug and abandon monitor well MW-4. On January 19, 2006, NMOCD approved the request to plug and abandon the monitor well. On March 6, 2006, monitor well MW-4 was plugged and abandoned utilizing approved New Mexico Office of the State Engineer plugging and abandonment procedures.

Currently, there are ten monitor wells (MW-1 through MW-3 and MW-5 through MW-11) onsite. For reference, the analytical results are shown in Table 2, 2008 Concentrations of BTEX in Groundwater.

FIELD ACTIVITIES

During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells. Table 1 displays the groundwater gauging data for the reporting period. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

Groundwater Monitoring

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 and amended by correspondence date January 19, 2006. The table below illustrates the current groundwater sampling schedule approved by the NMOCD.

Sample Location	Sampling Schedule
MW-1	Quarterly
MW-2	Quarterly
MW-3	Quarterly
MW-4	Plugged and Abandoned March 6, 2006
MW-5	Annual
MW-6	Semi-annual
MW-7	Semi-annual
MW-8	Annual
MW-9	Quarterly
MW-10	Quarterly
MW-11	Quarterly

Quarterly sampling events for the calendar year 2008 were performed on February 14, May 16, August 19, and November 19, 2008. Each quarterly sampling event consisted of gauging all wells and purging and sampling monitor wells as per the approved sampling schedule. During each sampling event, the monitor wells were purged of a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed 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 of at a licensed disposal facility.

The most recent inferred groundwater gradient, Figure 2D, indicates a general gradient of approximately 0.005 feet/foot to the southeast as measured between monitor wells MW-5 and MW-6. This data is consistent with data presented on Figures 2A through 2C from earlier in the year. Groundwater elevation data for the calendar year 2008 is provided in Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed disk.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2008 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic

Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2008 are summarized in Table 2 and the PAH constituent concentrations for 2008 are summarized in Table 3. Copies of the laboratory reports generated for 2008 are provided on the enclosed data disk. The quarterly groundwater sample results for 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 3.480 mg/L during the 1st quarter to 4.290 mg/L during the 3rd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of the reporting period. Toluene concentrations ranged from 0.122 mg/L during the 2nd quarter to 0.199 mg/L during the 3rd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.128 mg/L during the 4th quarter to 1.310 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were above the NMOCD regulatory standard of 0.75 mg/L during the 1st, 2nd and 3rd quarters of the reporting period. Xylene concentrations ranged from 0.179 mg/L during the 2nd quarter to 0.699 mg/L during the 1st quarter of 2008. Xylene concentrations were above the NMOCD regulatory standard of 0.62 mg/L during the 1st quarter and below the standards during the 2nd , 3rd and 4th quarters of the reporting period. Laboratory analysis for PAH during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.047 mg/L), 1-methylnaphthalene (0.0806 mg/L) and 2-methylnaphthalene (0.0587 mg/L). Additional PAH constituents detected above MDLs include chrysene (0.00193 mg/L), fluorene (0.0104 mg/L), phenanthrene (0.014 mg/L) and dibenzofuran (0.0152 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 1.63 mg/L during the 4th quarter to 5.69 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.100 mg/L during the 4th quarter to 0.665 mg/L during the 2nd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.788 mg/L during the 4th quarter to 3.90 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were above the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Xylene concentrations ranged from 0.504 mg/L during the 4th quarter to 3.64 mg/L during the 1st quarter of 2008. Xylene concentrations were above the NMOCD regulatory standard of 0.62 mg/L during the 1st, 2nd and 3rd quarters and below the standards during the 4th quarter of the reporting period. Laboratory analysis for PAH during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.0252 mg/L) and 2-methylnaphthalene (0.0335 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0163 mg/L), fluorene (0.00525 mg/L), phenanthrene (0.00739 mg/L) and dibenzofuran (0.00806 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-3 is sampled on a quarterly schedule. Analytical results indicate a total xylenes concentration of 0.0024 mg/L during the 3rd quarter of the reporting period and analytical results indicate BTEX constituent concentrations were below the MDL and/or NMOCD regulatory standards during all four quarters of the reporting period. Monitor well MW-3 has exhibited 24 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00022 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-5 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during the 2nd and 4th quarter sampling events. Monitor well MW-5 has exhibited 24 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-6 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during the 2nd and 4th quarter sampling event. Monitor well MW-6 has exhibited 28 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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 standards for each constituent during the 2nd and 4th quarter sampling event. Monitor well MW-7 has exhibited 28 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during the 4th quarter sampling event. Monitor well MW-8 has exhibited 23 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.002 mg/L during the 3rd quarter to 0.0093 mg/L during the 2nd quarter of 2008. Benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDLs and NMOCD regulatory standard during the all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0064 mg/L during the 3rd quarter to 0.0367 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.0069 mg/L during the 3rd quarter to 0.030 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH

analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00202 mg/L), 1-methylnaphthalene (0.00876 mg/L), 2-methylnaphthalene (0.00297 mg/L), dibenzofuran (0.00586 mg/L), fluorine (0.00427 mg/L), and phenanthrene (0.00553 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-10 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 4.720 mg/L during the 2nd quarter to 7.89 mg/L during the 3rd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of the reporting period. Toluene concentrations were below the MDL of 0.100 mg/L and below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.896 mg/L during the 2nd quarter to 1.940 mg/L during the 3rd quarter of 2008. Ethylbenzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.327 mg/L during the 2nd quarter to 1.020 mg/L during the 3rd quarter of 2008. Xylene concentrations were above the NMOCD regulatory standard during the 1st, 3rd and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.175 mg/L), 1-methylnaphthalene (0.412 mg/L) and 2-methylnaphthalene (0.380 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.050 mg/L), phenanthrene (0.0652 mg/L) and dibenzofuran (0.0765 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-11 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during each of the four quarterly sampling events. Monitor well MW-11 has exhibited 16 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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

This report presents the results of four groundwater monitoring and sampling events for the annual monitoring period of calendar year 2008. Currently, there are ten groundwater monitor wells (MW-1 through MW-3 and MW-5 through MW-11) onsite. The most recent inferred groundwater gradient indicates a general gradient of approximately 0.005 feet/foot to the southeast.

During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

Benzene concentrations were above NMOCD regulatory standards in three monitor wells during the reporting period. Benzene concentrations were below NMOCD regulatory standards in seven monitor wells.

Toluene concentrations were below NMOCD regulatory standards for all ten monitor wells during the four quarters of the 2008 reporting period.

Ethylbenzene concentrations were above NMOCD regulatory standards for two monitor wells (monitor well MW-1 exhibited one quarter below and three quarters above NMOCD regulatory standards) during the reporting period. Ethylbenzene concentrations were below NMOCD regulatory standards for seven monitor wells for the 2008 reporting period.

Xylene concentrations were above NMOCD regulatory standards for three monitor wells (monitor well MW-1 exhibited one quarter above and three quarters below NMOCD regulatory standards and monitor wells MW-2 and MW-10 exhibited three quarters above and one quarter below NMOCD regulatory standards). Xylene concentrations were below NMOCD regulatory standards for seven monitor wells for the 2008 reporting period. Analytical results on groundwater samples collected indicate PAH distributions mirrored those of BTEX distributions over the site.

ANTICIPATED ACTIONS

Plains will continue to monitor and perform quarterly groundwater sampling activities at the site. An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2010. Plains will submit a groundwater and site closure request to the NMOCD when groundwater analytical results demonstrate groundwater contaminant concentrations are below the regulatory standards for the required eight consecutive quarters.

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
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

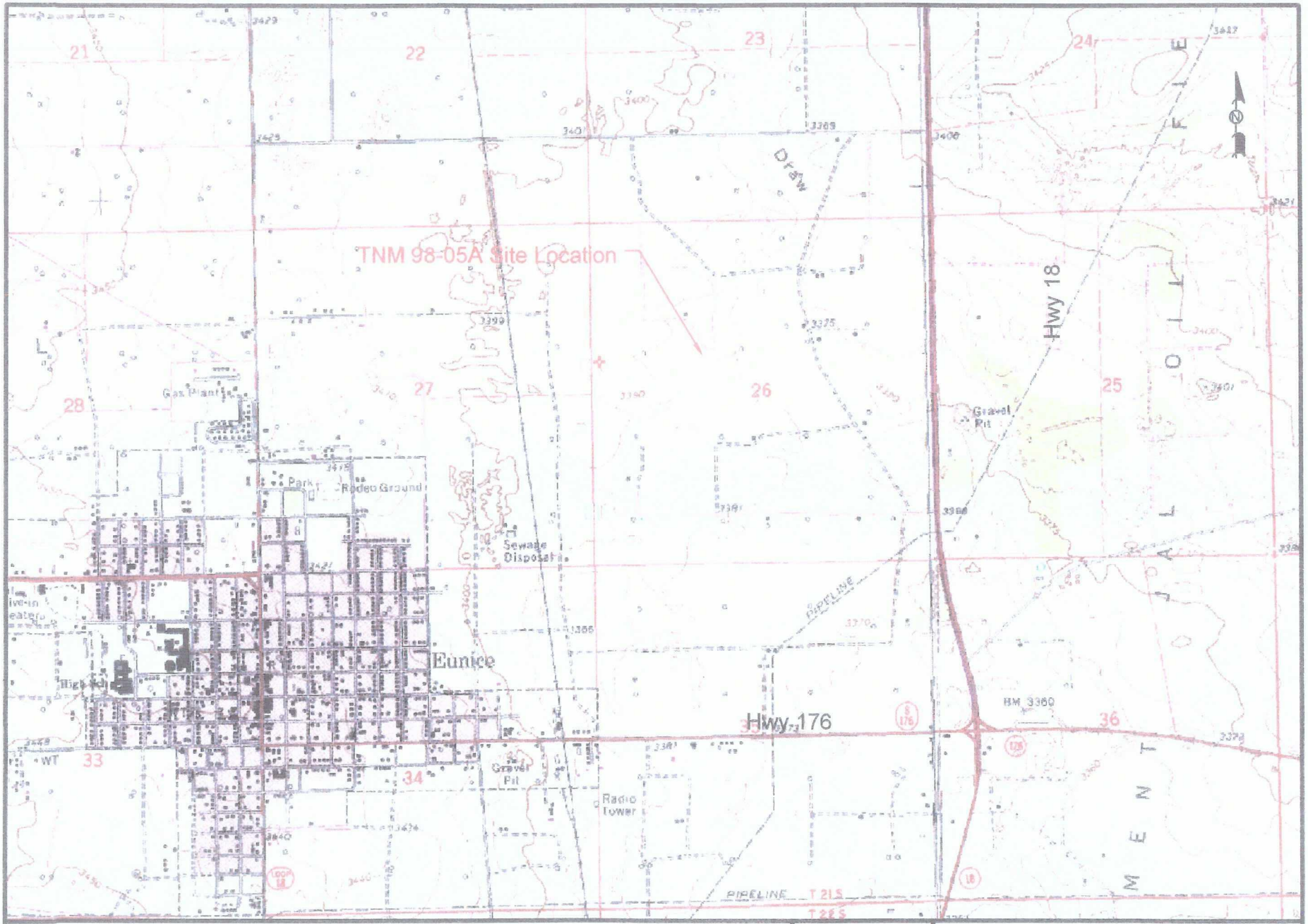
Copy 2:
Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240

Copy 3:
Jason Henry
Plains Marketing, L.P.
2530 State Highway 214
Denver City, TX 79323
jhenry@paalp.com

Copy 4:
Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, TX 77002
jpdann@paalp.com

Copy 5:
NOVA Safety and Environmental
2057 Commerce Street
Midland, TX 79703
rrounsaville@novatraining.cc

FIGURES

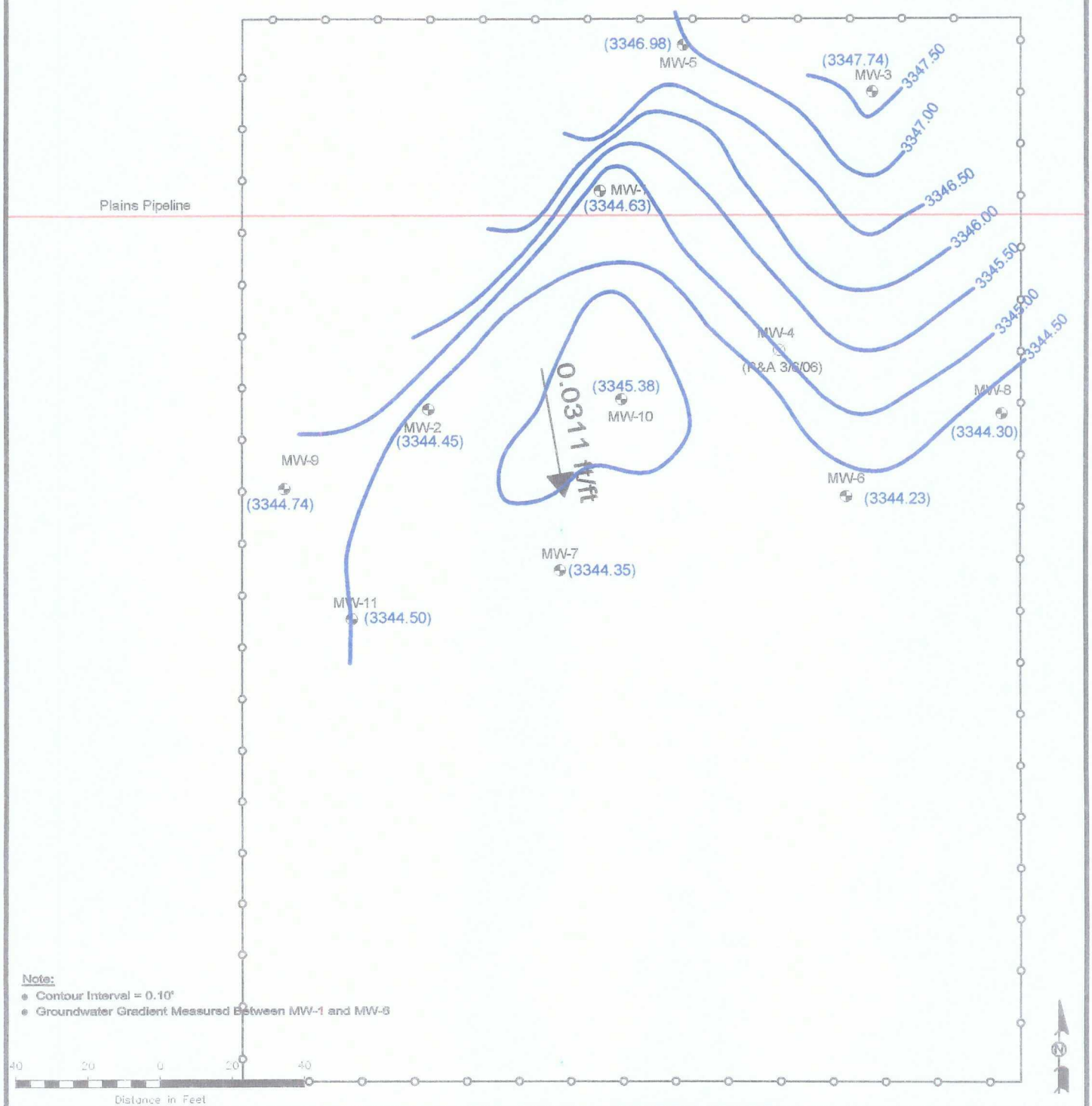


NMOCD Reference # AP-12

Figure 1
Site Location Map
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: CE
February 24, 2006	NE1/4 NW1/4 Sec 28 T21S R37E	
Lat. N32° 27' 03.9" Long. W103° 08' 29.2"		



Legend:

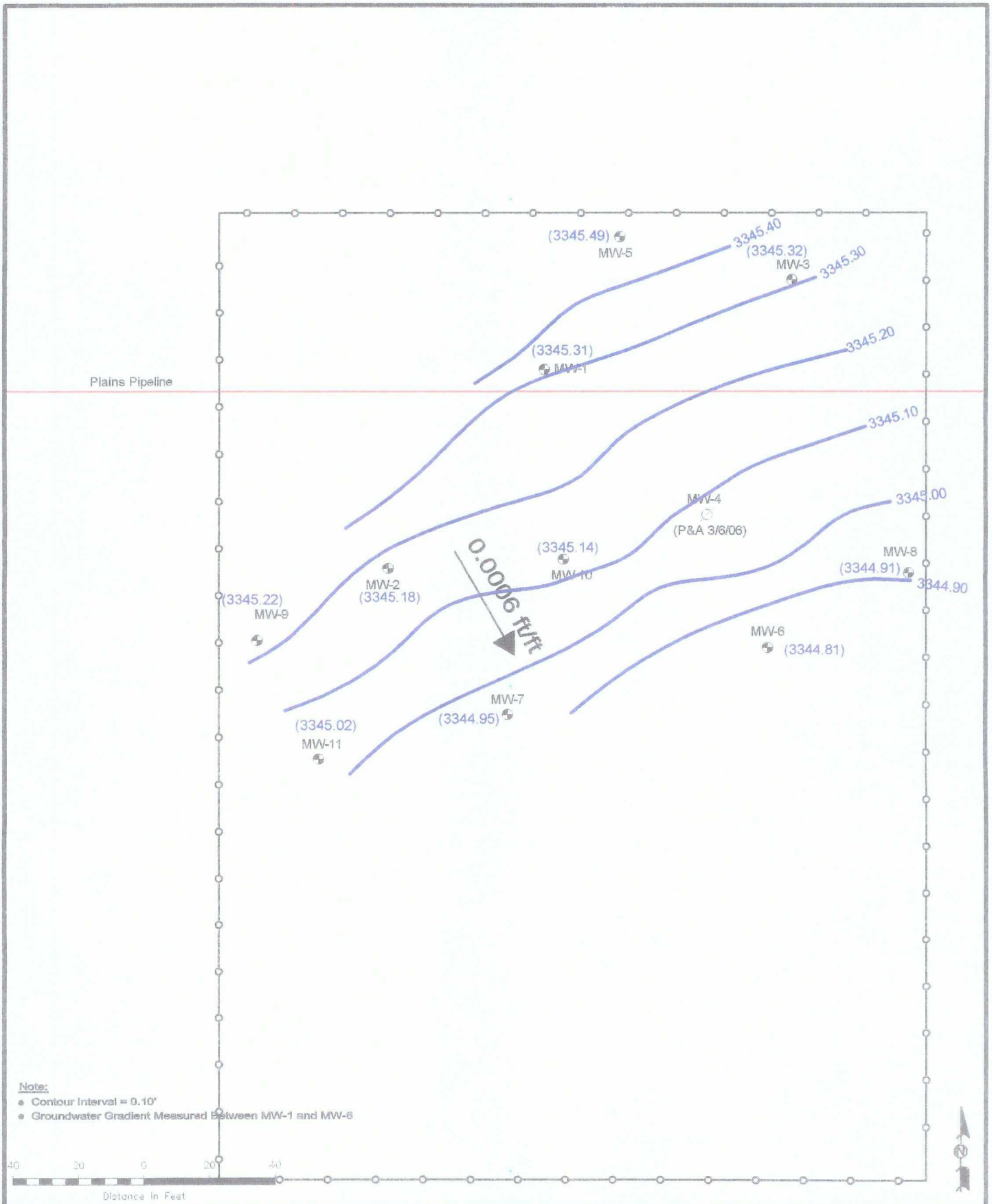
- Monitor Well Location
- Fence
- (3342.43) Groundwater Elevation in Feet
- Groundwater Gradient Contour
- Plugged and Abandoned
- NG Not Gauged
- 0.004 ft/ft Groundwater Gradient and Magnitude

Figure 2A
Inferred Groundwater Gradient Map (02/14/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NOVA safety and environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.9"N 103° 08' 29.2"W	
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
October 9, 2008		



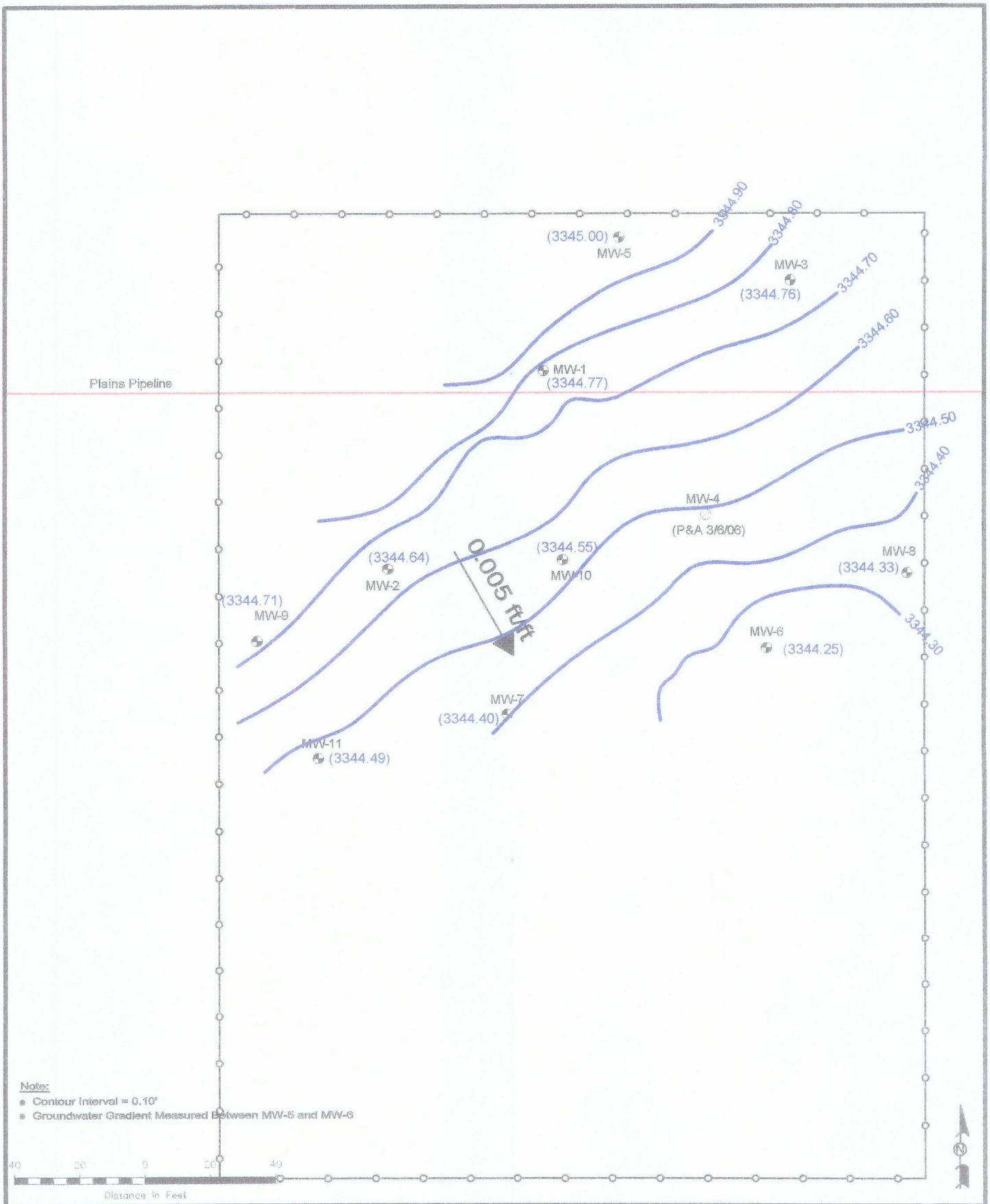
Legend:

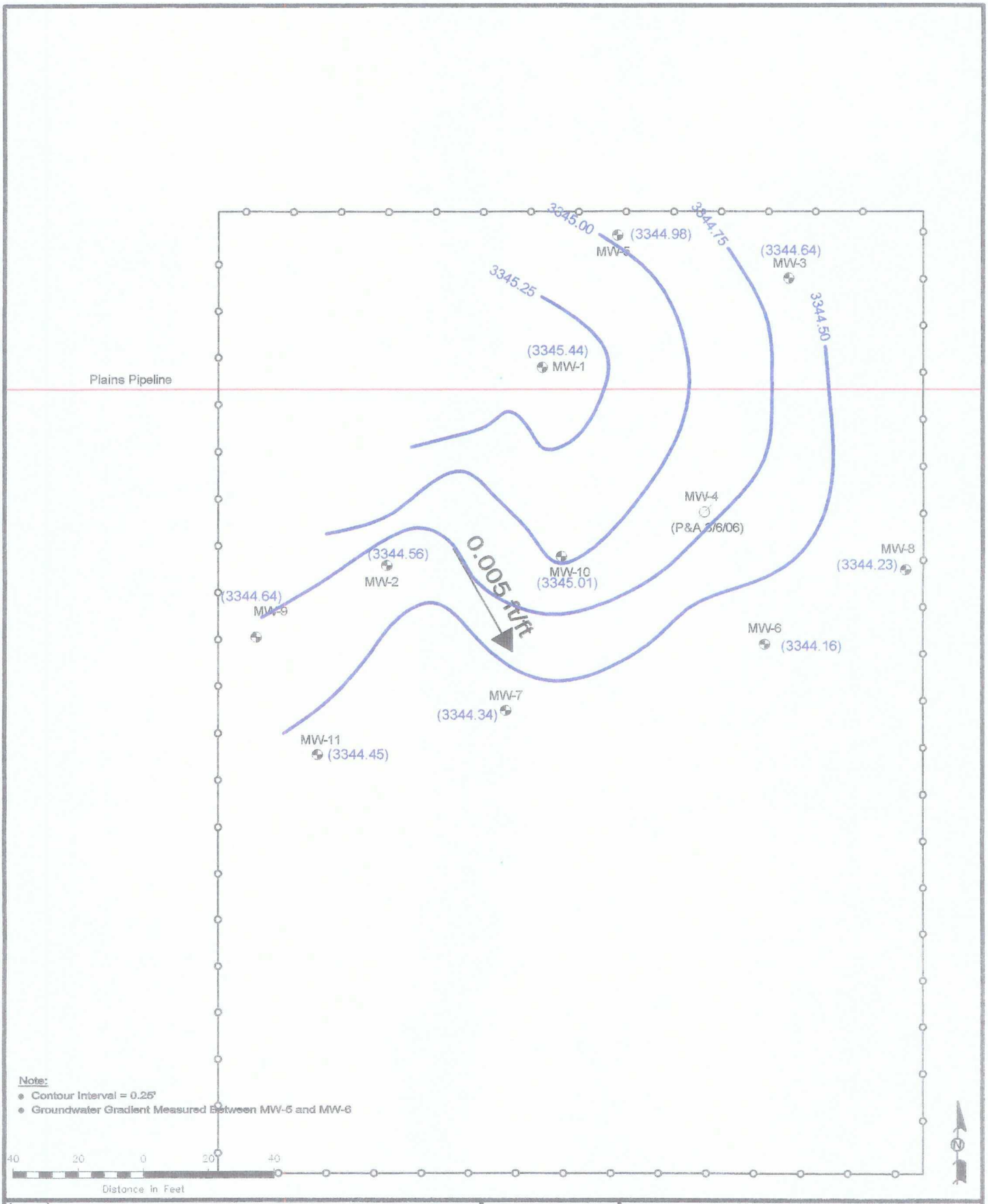
- Monitor Well Location
- Fence
- (3342.43) Groundwater Elevation in Feet
- Groundwater Gradient Contour
- Plugged and Abandoned
- NG Not Gauged
- 0.004 ft/ft Groundwater Gradient and Magnitude

Figure 2B
Inferred Groundwater Gradient Map (05/16/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.8"N 103° 08' 29.2"W	
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
October 9, 2008		


3344.90
3344.80
3344.70
3344.60
3344.50
3344.40
3344.30
(3345.00)
MW-5
MW-3
(3344.76)
MW-1
(3344.77)
Plains Pipeline
MW-4
(P&A 3/6/06)
(3344.64)
MW-2
(3344.55)
MW-10
MW-8
(3344.33)
0.005 ft/ft
(3344.71)
MW-9
MW-6
(3344.25)
MW-7
(3344.40)
MW-11
(3344.49)
Note:
Contour Interval = 0.10'
Groundwater Gradient Measured Between MW-5 and MW-6
40
20
0
20
40
Distance in Feet
N
Legend:
Monitor Well Location
Fence
(3342.43) Groundwater Elevation in Feet
Groundwater Gradient Contour
Plugged and Abandoned
NG Not Gauged
0.004 ft/ft Groundwater Gradient and Magnitude
Figure 2C
Inferred Groundwater Gradient Map (08/19/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12
NOVA Safety and Environmental
NOVA Safety and Environmental
NE1/4 NW1/4 Sec 26 T21S R37E
32° 27' 03.0"N 103° 08' 29.2"W
Scale: 1" = 40'
CAD By: DGC
Checked By: CDS
October 9, 2008



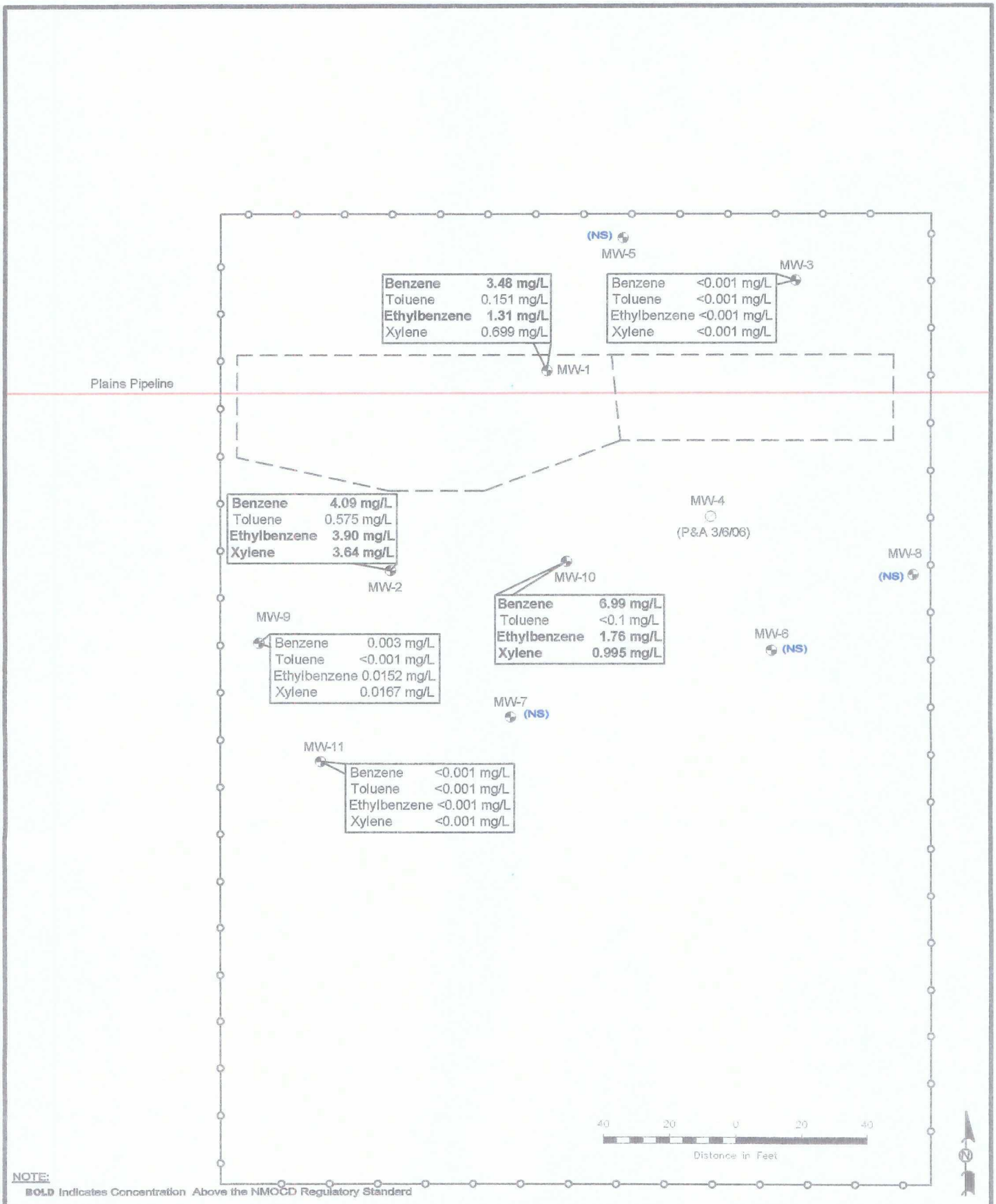
Legend:

- Monitor Well Location
- Fence
- (3342.43) Groundwater Elevation in Feet
- Groundwater Gradient Contour
- Plugged and Abandoned
- NG Not Gauged
- 0.004 ft/ft Groundwater Gradient and Magnitude

Figure 2D
Inferred Groundwater Gradient Map (11/19/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 26 T21S R37E		32° 27' 03.8"N 103° 06' 29.2"W
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
October 9, 2009		



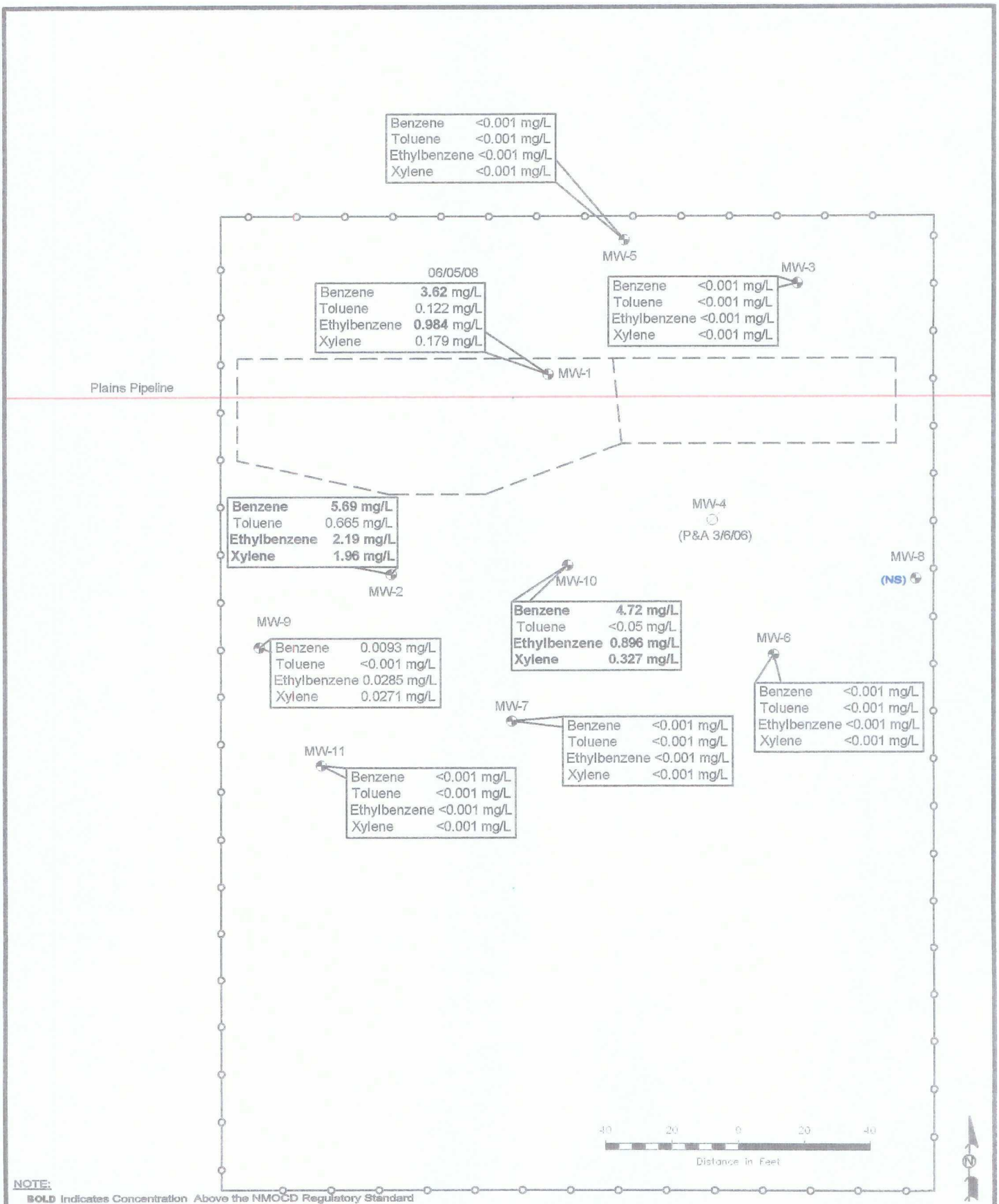
NOTE:
BOLD Indicates Concentration Above the NMOCD Regulatory Standard

Legend:
- Monitor Well Location
- Fence
- Plugged and Abandoned
- <0.001 Constituent Concentration in mg/L
- (NS) Not Sampled

Figure 3A
Groundwater Concentration and Inferred PSH Extent (02/14/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.9"N 103° 08' 29.2"W	
Scale: 1"= 40'	CAD By: DGC	Checked By: CDS
October 9, 2008		



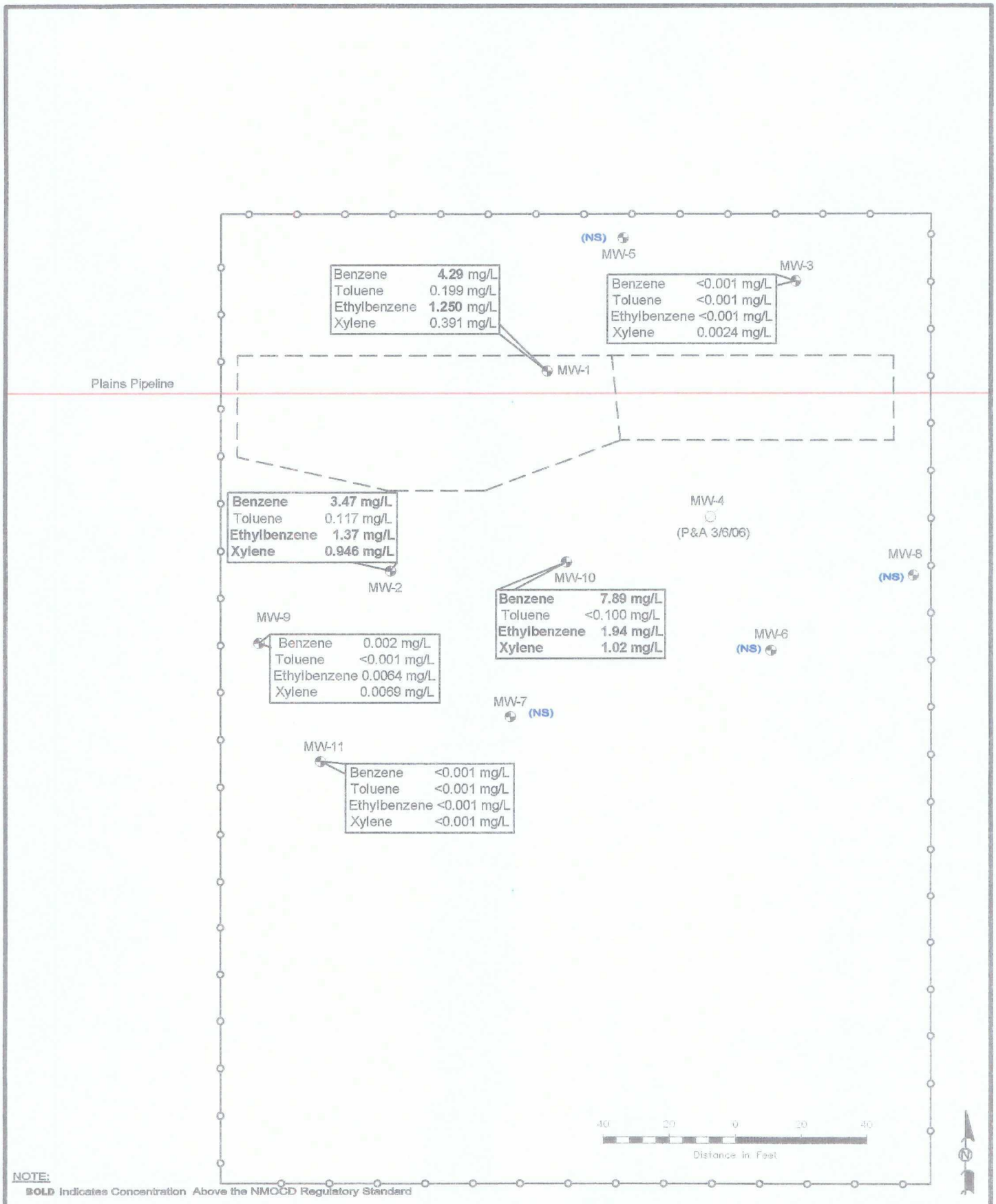
NOTE:
BOLD Indicates Concentration Above the NMOCD Regulatory Standard

Legend:
- Monitor Well Location
- Fence
- Plugged and Abandoned
- <0.001 Constituent Concentration in mg/L
- (NS) Not Sampled

Figure 3B
Groundwater Concentration and Inferred PSH Extent (05/16/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.8"N 103° 08' 29.2"W	
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
October 9, 2008		



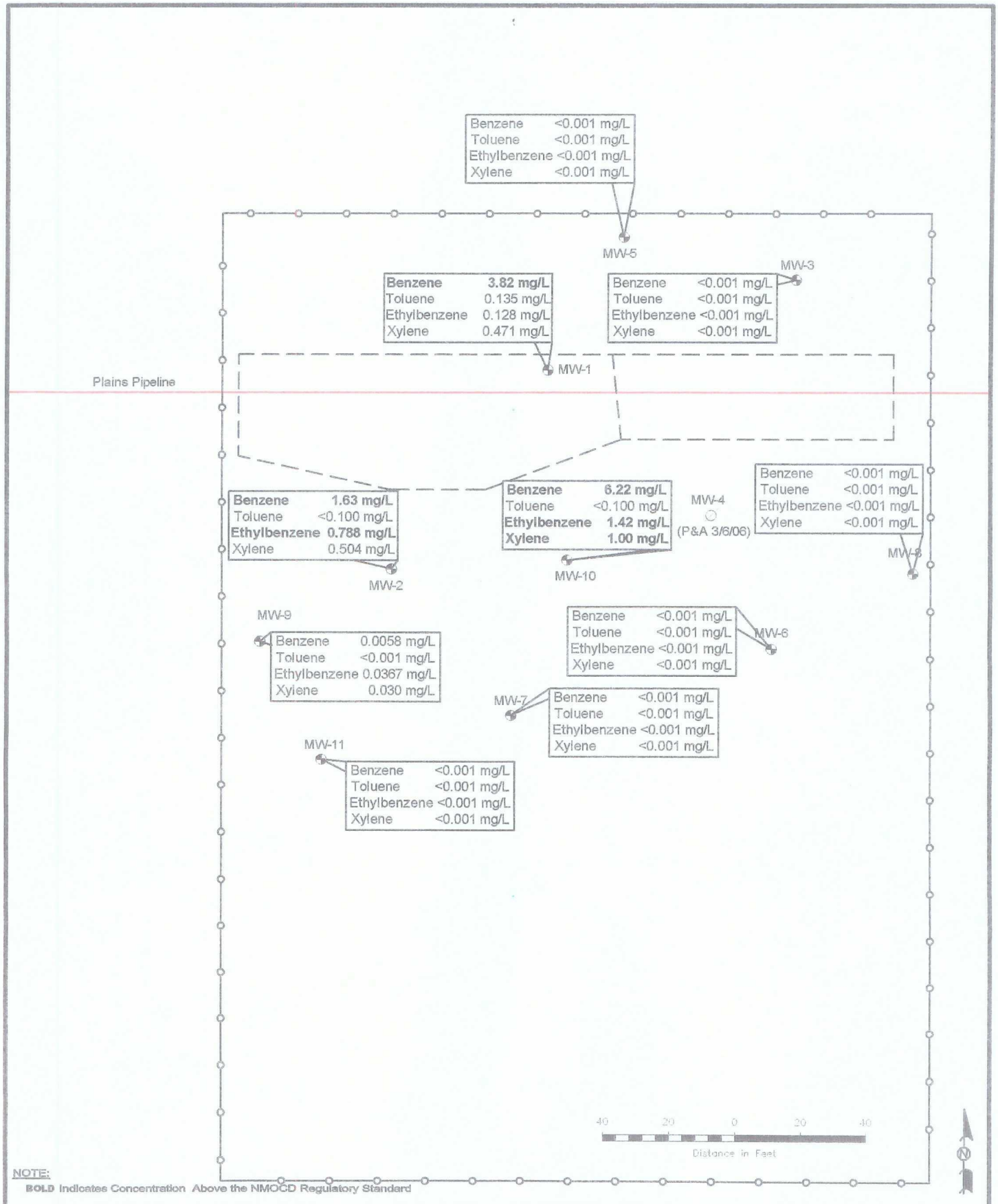
NOTE:
BOLD Indicates Concentration Above the NMOCD Regulatory Standard

Legend:
- Monitor Well Location
- Fence
- Plugged and Abandoned
- <0.001 Constituent Concentration in mg/L
- (NS) Not Sampled

Figure 3C
Groundwater Concentration and Inferred PSH Extent (08/19/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.8"N 103° 08' 29.2"W	
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
October 9, 2008		



NOTE:
BOLD Indicates Concentration Above the NMOCD Regulatory Standard

Legend:
- Monitor Well Location
- Fence
- Plugged and Abandoned
- <0.001 Constituent Concentration in mg/L
- (NS) Not Sampled

Figure 3D
Groundwater Concentration and Inferred PSH Extent (11/19/08)
Plains Marketing, L.P.
TNM98-05A
Lea County, NM
NMOCD Ref# AP-12

NOVA Safety and Environmental

NE1/4 NW1/4 Sec 28 T21S R37E	32° 27' 03.6"N 103° 08' 29.2"W	
Scale: 1" = 40'	CAD By: DGC	Checked By: RKR
December 15, 2008		

TABLES

TABLE 1

2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-12

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*02/14/08*	3391.62	-	46.99	0.00	3,344.63
MW - 1	04/18/08	3391.62	-	46.11	0.00	3,345.51
MW - 1	*05/16/08*	3391.62	-	46.31	0.00	3,345.31
MW - 1	*06/05/08*	3391.62	-	46.40	0.00	3,345.22
MW - 1	07/15/08	3391.62	-	46.70	0.00	3,344.92
MW - 1	07/16/08	3391.62	-	46.76	0.00	3,344.86
MW - 1	08/12/08	3391.62	-	46.80	0.00	3,344.82
MW - 1	*08/19/08*	3391.62	-	46.85	0.00	3,344.77
MW - 1	10/28/08	3391.62	-	47.08	0.00	3,344.54
MW - 1	*11/19/08*	3391.62	-	46.18	0.00	3,345.44
MW - 1	11/24/08	3391.62	-	47.32	0.00	3,344.30
MW - 2	*02/14/08*	3390.85	-	46.40	0.00	3,344.45
MW - 2	04/18/08	3390.85	-	45.42	0.00	3,345.43
MW - 2	*05/16/08*	3390.85	-	45.67	0.00	3,345.18
MW - 2	07/15/08	3390.85	-	46.10	0.00	3,344.75
MW - 2	07/16/08	3390.85	-	46.18	0.00	3,344.67
MW - 2	08/12/08	3390.85	-	46.23	0.00	3,344.62
MW - 2	*08/19/08*	3390.85	-	46.21	0.00	3,344.64
MW - 2	10/09/08	3390.85	-	46.41	0.00	3,344.44
MW - 2	*11/19/08*	3390.85	-	46.29	0.00	3,344.56
MW - 3	*02/14/08*	3391.08	-	43.34	0.00	3,347.74
MW - 3	*05/16/08*	3391.08	-	45.76	0.00	3,345.32
MW - 3	*08/19/08*	3391.08	-	46.32	0.00	3,344.76
MW - 3	10/09/08	3391.08	-	46.48	0.00	3,344.60
MW - 3	10/23/08	3391.08	-	46.54	0.00	3,344.54
MW - 3	10/28/08	3391.08	-	46.51	0.00	3,344.57
MW - 3	*11/19/08*	3391.08	-	46.44	0.00	3,344.64
MW - 3	11/24/08	3391.08	-	46.99	0.00	3,344.09
MW - 5	*02/14/08*	3391.53	-	44.55	0.00	3,346.98
MW - 5	*05/16/08*	3391.53	-	46.04	0.00	3,345.49
MW - 5	*08/19/08*	3391.53	-	46.53	0.00	3,345.00
MW - 5	*11/19/08*	3391.53	-	46.55	0.00	3,344.98
MW - 6	*02/14/08*	3391.14	-	46.91	0.00	3,344.23
MW - 6	*05/16/08*	3391.14	-	46.33	0.00	3,344.81
MW - 6	*08/19/08*	3391.14	-	46.89	0.00	3,344.25
MW - 6	*11/19/08*	3391.14	-	46.98	0.00	3,344.16
MW - 7	*02/14/08*	3391.21	-	46.86	0.00	3,344.35
MW - 7	*05/16/08*	3391.21	-	46.26	0.00	3,344.95
MW - 7	*08/19/08*	3391.21	-	46.81	0.00	3,344.40
MW - 7	*11/19/08*	3391.21	-	46.87	0.00	3,344.34
MW - 8	*02/14/08*	3391.14	-	46.84	0.00	3,344.30
MW - 8	*05/16/08*	3391.14	-	46.23	0.00	3,344.91
MW - 8	*08/19/08*	3391.14	-	46.81	0.00	3,344.33
MW - 8	*11/19/08*	3391.14	-	46.91	0.00	3,344.23
MW - 9	*02/14/08*	3391.47	-	46.73	0.00	3,344.74
MW - 9	*05/16/08*	3391.47	-	46.25	0.00	3,345.22
MW - 9	*08/19/08*	3391.47	-	46.76	0.00	3,344.71
MW - 9	10/09/08	3391.47	-	46.93	0.00	3,344.54
MW - 9	10/23/08	3391.47	-	46.89	0.00	3,344.58
MW - 9	10/28/08	3391.47	-	46.88	0.00	3,344.59
MW - 9	*11/19/08*	3391.47	-	46.83	0.00	3,344.64
MW - 9	11/24/08	3391.47	-	46.91	0.00	3,344.56

TABLE 1

2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-12

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	*02/14/08*	3391.26	-	46.79	0.00	3,344.47
MW - 10	04/18/08	3391.26	-	45.88	0.00	3,345.38
MW - 10	*05/16/08*	3391.26	-	46.12	0.00	3,345.14
MW - 10	07/15/08	3391.26	-	46.56	0.00	3,344.70
MW - 10	07/16/08	3391.26	-	46.62	0.00	3,344.64
MW - 10	08/12/08	3391.26	-	46.65	0.00	3,344.61
MW - 10	*08/19/08*	3391.26	-	46.71	0.00	3,344.55
MW - 10	10/09/08	3391.26	-	46.90	0.00	3,344.36
MW - 10	10/23/08	3391.26	-	46.88	0.00	3,344.38
MW - 10	10/28/08	3391.26	-	46.84	0.00	3,344.42
MW - 10	*11/19/08*	3391.26	-	46.25	0.00	3,345.01
MW - 10	11/24/08	3391.26	-	47.10	0.00	3,344.16
MW - 11	*02/14/08*	3390.73	-	46.23	0.00	3,344.50
MW - 11	*05/16/08*	3390.73	-	45.71	0.00	3,345.02
MW - 11	*08/19/08*	3390.73	-	46.24	0.00	3,344.49
MW - 11	*11/20/08*	3390.73	-	46.28	0.00	3,344.45

** Complete Historical Tables are presented on the attached CD.*

TABLE 2

2008 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations 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		**0.010**	**0.75**	**0.75**	**0.62**	
MW - 1	02/14/08	**3.480**	0.1510	**1.310**	**0.699**	
MW - 1	06/05/08	**3.620**	0.1220	**0.984**	0.179	
MW - 1	08/19/08	**4.290**	0.1990	**1.250**	0.391	
MW - 1	11/19/08	**3.820**	0.1350	0.128	0.471	
MW - 2	02/14/08	**4.090**	0.5750	**3.900**	**3.640**	
MW - 2	05/16/08	**5.690**	0.6650	**2.190**	**1.960**	
MW - 2	08/19/08	**3.470**	0.1170	**1.370**	**0.946**	
MW - 2	11/19/08	**1.630**	<0.100	**0.788**	0.504	
MW - 3	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/19/08	<0.001	<0.001	<0.001	0.0024	
MW - 3	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/14/08	Not Sampled due to sample reduction				
MW - 5	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/19/08	Not Sampled due to sample reduction				
MW - 5	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/08	Not Sampled due to sample reduction				
MW - 6	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/19/08	Not Sampled due to sample reduction				
MW - 6	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/14/08	Not Sampled due to sample reduction				
MW - 7	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/19/08	Not Sampled due to sample reduction				
MW - 7	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/08	Not Sampled due to sample reduction				
MW - 8	05/16/08	Not Sampled due to sample reduction				
MW - 8	08/19/08	Not Sampled due to sample reduction				
MW - 8	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/14/08	0.0030	<0.001	0.0152	0.0167	
MW - 9	05/16/08	0.0093	<0.001	0.0285	0.0271	
MW - 9	08/19/08	0.0020	<0.001	0.0064	0.0069	
MW - 9	11/19/08	0.0058	<0.001	0.0367	0.0300	

TABLE 2

2008 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations 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		**0.010**	**0.75**	**0.75**	**0.62**	
MW-10	02/14/08	**6.990**	<0.100	**1.760**	**0.995**	
MW-10	05/16/08	**4.720**	<0.050	**0.896**	0.327	
MW-10	08/19/08	**7.890**	<0.100	**1.940**	**1.020**	
MW-10	11/19/08	**6.220**	<0.100	**1.420**	**1.000**	
MW-11	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW-11	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW-11	08/19/08	<0.001	<0.001	<0.001	<0.001	
MW-11	11/19/08	<0.001	<0.001	<0.001	<0.001	

Concentrations in bold exceed NMOCD Groundwater Cleanup Limits

** Complete Historical Tables are presented on the attached CD.*

TABLE 5

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.
TNM 98-05A
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	—	**0.0001 mg/L**	**0.0007 mg/L**	**0.0002 mg/L**	—	**0.0002 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	—	—	**0.0004 mg/L**	**0.03 mg/L**	—	—	**0.03 mg/L**		—
MW-1	11/19/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.00193	<0.000917	<0.000917	0.0104	<0.000917	**0.047**	0.014	<0.000917	**0.0806**	**0.0587**	0.0152
MW-2	11/19/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.00525	<0.000922	0.0163	0.00739	<0.000922	**0.0252**	**0.0335**	0.00806
MW-3	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00022	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-5	11/11/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
MW-6	11/11/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
MW-7	11/11/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
MW-8	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-9	11/11/08	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	0.00427	<0.000935	0.00202	0.00553	<0.000935	0.00876	0.00297	0.00586
MW-10	11/11/08	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	0.050	<0.00367	**0.175**	0.0652	<0.00367	**0.412**	**0.380**	0.0765
MW-11	11/11/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185

APPENDICES

APPENDIX A:
Form C-141

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

98-05A

Form C-141
Originated 2/13/97

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	Contact
Texas-New Mexico Pipe Line Company	Edwin H. Gripp
Address	**Telephone No.**
Box 60028	915-947-9000
Facility Name	**Facility Type**
San Angelo, TX 76906	pipe line

Surface Owner	Mineral Owner	Lease No.
Nadine Owen		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	21S	37E					Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Sour Crude	38 barrels	4 barrels
Source of Release	**Date and Hour of Occurrence**	**Date and Hour of Discovery**
6" gathering line	Unknown	2/5/98; 10:25 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?**	Linda Williams (Clerk #4)
By Whom? Johnny W. Chapman	**Date and Hour**	2/5/98; 3:00 p.m.
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.**	N/A

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Internal Corrosion

Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.*

Approximately 1260 sq.ft. pasture land.

Contaminated soil will be excavated and put on plastic.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*

Cloudy; 60 degrees

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Edwin H. Gripp

Printed Name: Edwin H. Gripp

Title: District Manager

Date: 2/12/98 Phone: 915-947-9000

OIL CONSERVATION DIVISION

Approved by District Supervision

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

State Corporation Commission Hazardous Waste Section