

AP - 13

# ANNUAL MONITORING REPORT

YEAR(S):  
2009



**2009**  
**ANNUAL MONITORING REPORT**

RECEIVED

**MAR 25 2010**  
Environmental Bureau  
Oil Conservation Division

**TNM 97-18**

SW ¼ NE ¼ of SECTION 28, TOWNSHIP 20 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NUMBER: TNM 97-18-KNOWN  
NMOCD Reference AP-0013

PREPARED FOR:

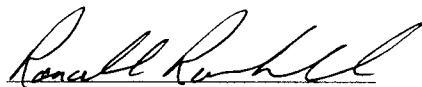
**PLAINS MARKETING, L.P.**  
333 CLAY STREET, SUITE 1600  
HOUSTON, TEXAS 77002

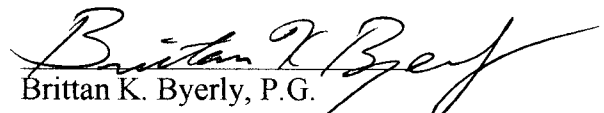


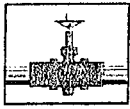
PREPARED BY:

**NOVA Safety and Environmental**  
2057 Commerce  
Midland, Texas 79703

**February 2010**

  
Ronald K. Rounsaville  
Senior Project Manager

  
Brittan K. Byerly, P.G.  
President



PLAINS  
ALL AMERICAN

March 22, 2010

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

MAR 25 2010  
Environmental Bureau  
Oil Conservation Division

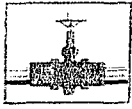
Re: Plains All American – 2009 Annual Monitoring Reports  
12 Sites in Lea County, New Mexico

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:

34 Junc. to Lea Sta.	1R-0386	Section 21, Township 20 South, Range 37 East, Lea County
34 Junction South	1R-0456	Section 02, Township 17 South, Range 36 East, Lea County
Bob Durham	AP-0016	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #1	AP-007	Section 11, Township 15 South, Range 37 East, Lea County
Darr Angell #2	AP-007	Section 11, Township 15 South, Range 37 East, Lea County Section 14, Township 15 South, Range 37 East, Lea County
Darr Angell #4	AP-007	Section 11, Township 15 South, Range 37 East, Lea County Section 02, Township 15 South, Range 37 East, Lea County
Denton Station	1R-0234	Section 14, Township 15 South, Range 37 East, Lea County
HDO-90-23	AP-009	Section 06, Township 20 South, Range 37 East, Lea County
SPS-11	GW-0140	Section 18, Township 18 South, Range 36 East, Lea County
TNM 97-04	GW-0294	Section 11, Township 16 South, Range 35 East, Lea County
TNM 97-17	AP-017	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	AP-0013	Section 28, Township 20 South, Range 37 East, Lea County

Nova Safety and Environmental (Nova) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Nova personnel in 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.



PLAINS  
ALL AMERICAN

If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry  
Remediation Coordinator  
Plains All American

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MAR 25 2000  
Environmental Bureau  
Oil Conservation Division

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

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

### ENCLOSED ON DATA DISK

2009 Annual Monitoring Report

2009 Tables 1, 2 and 3 – Groundwater Elevation, BTEX, TPH and PAH Concentration Data

2009 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

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

## **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 TNM 97-18 Pipeline Release Site (the site), formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with figures, appendices, tables and text. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2009 only. Historic data is provided on the enclosed data disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2009 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 sampled as per a NMOCD directive.

## **SITE DESCRIPTION AND BACKGROUND INFORMATION**

The TNM 97-18 release occurred on September 10, 1997. The site is located south of Monument, New Mexico in the Southwest  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  of Section 28, Township 20 South, Range 37 East. According to Form C-141, an estimated 83 barrels of crude oil was released from the 16-inch pipeline of which none was recovered. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. Previous consultants reported approximately 799 cubic yards of impacted soil was excavated from the area around the release point and stockpiled on site.

Currently, there are twenty-seven monitor wells (MW-1 through MW-30 excluding MW-13, MW-19, and MW-29 which have been plugged and abandoned) and two recovery wells (RW-1 and RW-2) onsite. A pneumatic product recovery system operated onsite incorporating three monitor wells (MW-4, MW-5 and MW-7) was discontinued at the end of 2006, due to declining PSH thicknesses on site.

## **FIELD ACTIVITIES**

### **Groundwater Monitoring**

Quarterly monitoring events for the reporting period were performed according to the following reduced sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004 and amended by NMOCD correspondence dated June 22, 2005.

NMOCD APPROVED SAMPLING SCHEDULE					
Location	Schedule	Location	Schedule	Location	Schedule
MW-1	Annually	MW-12	Annually	MW-23	Quarterly
MW-2	Quarterly	MW-13	Plugged and Abandoned	MW-24	Quarterly
MW-3	Quarterly	MW-14	Annually	MW-25	Quarterly
MW-4	Quarterly	MW-15	Annually	MW-26	Quarterly
MW-5	Quarterly	MW-16	Annually	MW-27	Quarterly
MW-6	Quarterly	MW-17	Quarterly	MW-28	Semi-Annually
MW-7	Quarterly	MW-18	Quarterly	MW-29	Plugged and Abandoned
MW-8	Annually	MW-19	Plugged and Abandoned	MW-30	Semi-Annually
MW-9	Annually	MW-20	Annually		
MW-10	Quarterly	MW-21	Annually	RW-1	Quarterly
MW-11	Annually	MW-22	Annually	RW-2	Quarterly

The site monitor wells were gauged and sampled on February 11, May 13, August 11 and November 23, 2009. During each sampling event, monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. 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.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during quarterly sampling events performed in 2009, are depicted on the Inferred Groundwater Gradient Maps, Figures 2A-2D. Groundwater elevation data for 2009 is provided as Table 1. Historic groundwater elevation data beginning at project inception is enclosed on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.007 feet/foot to the southeast as measured between MW-1 and MW-30. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,468.34 to 3477.99 feet above mean sea level, in monitor well MW-27 on August 11, 2009 and in recovery well RW-2 on September 10, 2009, respectively.

## LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2009 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. A listing of BTEX constituent concentrations for 2009 are summarized in Table 2 and the PAH constituent concentrations for 2009 are summarized in Table 3. Copies of the laboratory reports generated for 2009 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 an annual schedule and analytical results indicate BTEX constituent concentrations were below laboratory method detection limits (MDL) and the NMOCD regulatory standard of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 mg/L for xylene, for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-1 has exhibited thirty-seven consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-2** is sampled on a quarterly schedule. Analytical results indicate the benzene concentration ranged from 0.0576 mg/L during the 2<sup>nd</sup> quarter to 0.923 mg/L during the 4<sup>th</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.2370 mg/L during the 1<sup>st</sup> quarter to 0.3340 mg/L during the 4<sup>th</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.0717 mg/L during the 1<sup>st</sup> quarter to 0.1450 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0304 mg/L) and 2-methylnaphthalene (0.0217 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0133 mg/L), fluorene (0.00451 mg/L), phenanthrene (0.00667 mg/L) and dibenzofuran (0.00353 mg/L), which are below WQCC standards.

**Monitor well MW-3** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.3720 mg/L during the 2<sup>nd</sup> quarter to 1.500 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0888 mg/L during the 2<sup>nd</sup> quarter to 0.3220 mg/L during the 1<sup>st</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.1110 mg/L during the 4<sup>th</sup> quarter to 0.1370 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0707 mg/L) and 2-methylnaphthalene (0.0332 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0294 mg/L), fluorene (0.00996 mg/L), phenanthrene (0.0108 mg/L) and dibenzofuran (0.00908 mg/L), which are below WQCC standards.

**Monitor well MW-4** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 1.100 mg/L during the 2<sup>nd</sup> quarter to 2.460 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene



concentrations ranged from 0.2860 mg/L during the 2<sup>nd</sup> quarter to 0.6520 mg/L during the 1<sup>st</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.1890 mg/L during the 4<sup>th</sup> quarter to 0.4310 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.0107 mg/L), 1-methylnaphthalene (0.0229 mg/L), 2-methylnaphthalene (0.00588 mg/L), fluorine (0.00166 mg/L), phenanthrene (0.00161 mg/L), and dibenzofuran (0.00198 mg/L), which are below WQCC standards.

**Monitor well MW-5** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 1.170 mg/L during the 2<sup>nd</sup> quarter to 1.570 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations ranged from 0.0091 mg/L during the 4<sup>th</sup> quarter to 0.0497 mg/L during the 2<sup>nd</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.4790 mg/L during the 4<sup>th</sup> quarter to 0.6230 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.320 mg/L during the 4<sup>th</sup> quarter to 0.5090 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0285 mg/L) and 2-methylnaphthalene (0.0230 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0216 mg/L), fluorene (0.00201 mg/L), phenanthrene (0.00176 mg/L) and dibenzofuran (0.00268 mg/L), which are below WQCC standards.

**Monitor well MW-6** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 0.410 mg/L during the 4<sup>th</sup> quarter to 0.5550 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0734 mg/L during the 4<sup>th</sup> quarter to 0.4400 mg/L during the 1<sup>st</sup> quarter of 2009. Ethylbenzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.0557 mg/L during the 4<sup>th</sup> quarter to 0.2330 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0327 mg/L) and 2-methylnaphthalene (0.00836 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.00817 mg/L), fluorene (0.00759 mg/L), phenanthrene (0.0116 mg/L) and dibenzofuran (0.00702 mg/L), which are below WQCC standards.

**Monitor well MW-7** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 0.6410 mg/L during the 2<sup>nd</sup> quarter to 0.7500 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all

four quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.0065 mg/L during the 1<sup>st</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0578 mg/L during the 4<sup>th</sup> quarter to 0.1210 mg/L during the 2<sup>nd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.0881 mg/L during the 4<sup>th</sup> quarter to 0.1740 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.102 mg/L) and 2-methylnaphthalene (0.0863 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0245 mg/L), fluorene (0.0136 mg/L), phenanthrene (0.0184 mg/L) and dibenzofuran (0.0100 mg/L), which are below WQCC standards.

**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 BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-9 has exhibited twenty-five consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-9** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-9 has exhibited twenty-five consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-10** is sampled on a quarterly schedule. Analytical results indicate the benzene concentration ranged from 0.242 mg/L during the 4<sup>th</sup> quarter to 0.290 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.005 mg/L during the 4<sup>th</sup> quarters to 0.0310 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 4<sup>th</sup> quarter to 0.0735 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00304 mg/L), 1-methylnaphthalene (0.0277 mg/L), dibenzofuran (0.00522 mg/L), fluorine (0.00664 mg/L), and phenanthrene (0.00726 mg/L), which are below WQCC standards.

**Monitor well MW-11** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX

constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-11 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-12** is sampled on an annual schedule and analytical results from groundwater samples collected during the 4<sup>th</sup> quarter indicate benzene, toluene and ethylbenzene concentrations were below the MDL and NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter with a concentration of 0.0019 mg/L. Monitor well MW-12 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-14** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-14 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-15** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-15 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-16** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-16 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-17** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 2.170 mg/L during the 4<sup>th</sup> quarter to 2.620 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 1.640 mg/L during the 4<sup>th</sup> quarter to 2.190 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.1570 mg/L during the 4<sup>th</sup> quarter to 0.5110 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking

Water Standards for naphthalene (0.0371 mg/L), 1-methylnaphthalene (0.0300 mg/L) and 2-methylnaphthalene (0.0229 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.00162 mg/L), phenanthrene (0.00138 mg/L) and dibenzofuran (0.00205 mg/L), which are below WQCC standards.

**Monitor well MW-18** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 2.620 mg/L during the 4<sup>th</sup> quarter to 4.160 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 1.700 mg/L during the 4<sup>th</sup> quarter to 2.980 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.2590 mg/L during the 4<sup>th</sup> quarter to 0.7570 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were above NMOCD regulatory standards during the 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period and below NMOCD regulatory standards during the 1<sup>st</sup> and 4<sup>th</sup> quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0328 mg/L), 1-methylnaphthalene (0.0282 mg/L) and 2-methylnaphthalene (0.0192 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.00163 mg/L), phenanthrene (0.00166 mg/L) and dibenzofuran (0.00186 mg/L), which are below WQCC standards.

**Monitor well MW-20** is sampled on an annual schedule. Analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-20 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-21** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-21 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-22** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. Monitor well MW-22 has exhibited twenty-six consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-23** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.488 mg/L during the 4<sup>th</sup> quarter to 1.150 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all

four quarters of the reporting period. Toluene and ethylbenzene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.020 mg/L during the 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.2590 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-24** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.733 mg/L during the 2<sup>nd</sup> quarter to 1.460 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.020 mg/L during the 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.1700 mg/L during the 1<sup>st</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.020 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.0833 mg/L during the 1<sup>st</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-25** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.442 mg/L during the 1<sup>st</sup> quarter to 0.600 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.0099 mg/L during the 1<sup>st</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.005 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.0196 mg/L during the 1<sup>st</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarter to 0.0605 mg/L during the 1<sup>st</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for 1-methylnaphthalene (0.00226 mg/L), which is below WQCC standards.

**Monitor well MW-26** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 4<sup>th</sup> quarter to 0.0406 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 4<sup>th</sup> quarter to 0.0166 mg/L during the 2<sup>nd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.0032 mg/L during the 1<sup>st</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for

dibenzofuran (0.00135 mg/L) and phenanthrene (0.000766 mg/L), which are below WQCC standards.

**Monitor well MW-27** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. Monitor well MW-27 has exhibited twenty-three consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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

**Monitor well MW-30** is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of the reporting period. Monitor well MW-30 has exhibited twenty-seven consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Recovery well RW-1** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 1.270 mg/L during the 4<sup>th</sup> quarter to 1.870 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations ranged from 0.2820 mg/L during the 1<sup>st</sup> quarter to 0.4860 mg/L during the 3<sup>rd</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.5160 mg/L during the 4<sup>th</sup> quarter to 0.7490 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.230 mg/L during the 4<sup>th</sup> quarter to 0.4420 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0327 mg/L), 1-methylnaphthalene (0.0366 mg/L) and 2-methylnaphthalene (0.0296 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.00328 mg/L), dibenzofuran (0.00341 mg/L) and phenanthrene (0.00392 mg/L), which are below WQCC standards.

**Recovery well RW-2** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 0.901 mg/L during the 4<sup>th</sup> quarter to 1.270 mg/L during the 3<sup>rd</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene

concentrations ranged from 0.3580 mg/L during the 4<sup>th</sup> quarter to 0.6210 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period. Xylene concentrations ranged from 0.1570 mg/L during the 4<sup>th</sup> quarter to 0.426 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0413 mg/L) and 2-methylnaphthalene (0.0227 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0206 mg/L), fluorene (0.00385 mg/L), dibenzofuran (0.00346 mg/L) and phenanthrene (0.0206 mg/L), which are below WQCC standards.

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 monitoring activities for the 2009 annual monitoring period. Currently, there are twenty seven groundwater monitor wells (MW-1 through MW-30, excluding MW-13, MW-19, and MW-29 which have been plugged and abandoned) and two PSH recovery wells (RW-1 and RW-2) on-site. Manual over pumping of wells exhibiting elevated hydrocarbon concentrations occurs on a weekly schedule. Groundwater elevation contours generated from water level measurements acquired indicated a general gradient of approximately 0.007 feet/foot to the southeast.

No measurable thickness of PSH was present in any of the monitor well on site during the 2009 reporting period.

Review of the laboratory analytical results indicates, fourteen monitor wells exhibited BTEX constituent concentrations below the NMOCD regulatory standard during the reporting period. Analytical results on groundwater samples collected indicate PAH concentrations are demonstrating a decreasing trend in eleven monitor and recovery wells (MW-2, MW-4, MW-5, MW-7, MW-10, MW-18, MW-23, MW-24, MW-26, RW-1 and RW-2), a fluctuating trend in three wells (MW-6, MW-17 and MW-25) and a slight increasing trend in one monitor well (MW-3) at the site.

## **ANTICIPATED ACTIONS**

Quarterly gauging and sampling will continue in 2010. Manual over pumping will occur weekly and will be adjusted according to site conditions. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2010.

Based on the results of the PAH analysis over the past several years, NOVA recommends that further PAH analysis be conducted only on those monitor and recovery wells (MW-2 through MW-7, MW-10, MW-17, MW-18, MW-23 through MW-26 and RW-1 and RW-2) which have historically exhibited elevated constituents near or above the WQCC standards.

Soil remediation activities are scheduled to commence during the 2<sup>nd</sup> quarter of 2010. A Soil Closure Request will be submitted to the NMOCD following the completion of these activities.

## **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.



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rrounsaville@novatraining.cc

## Figures

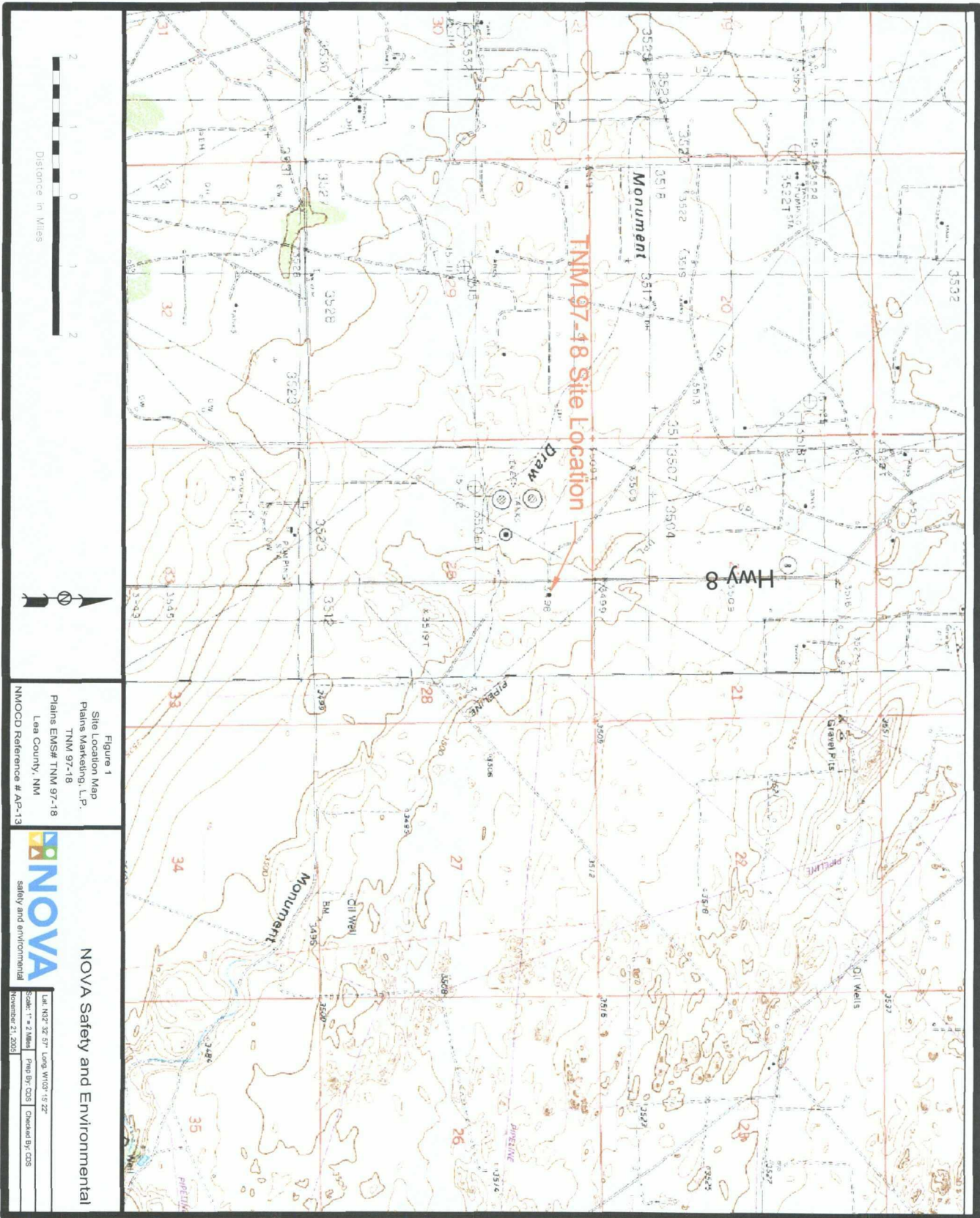
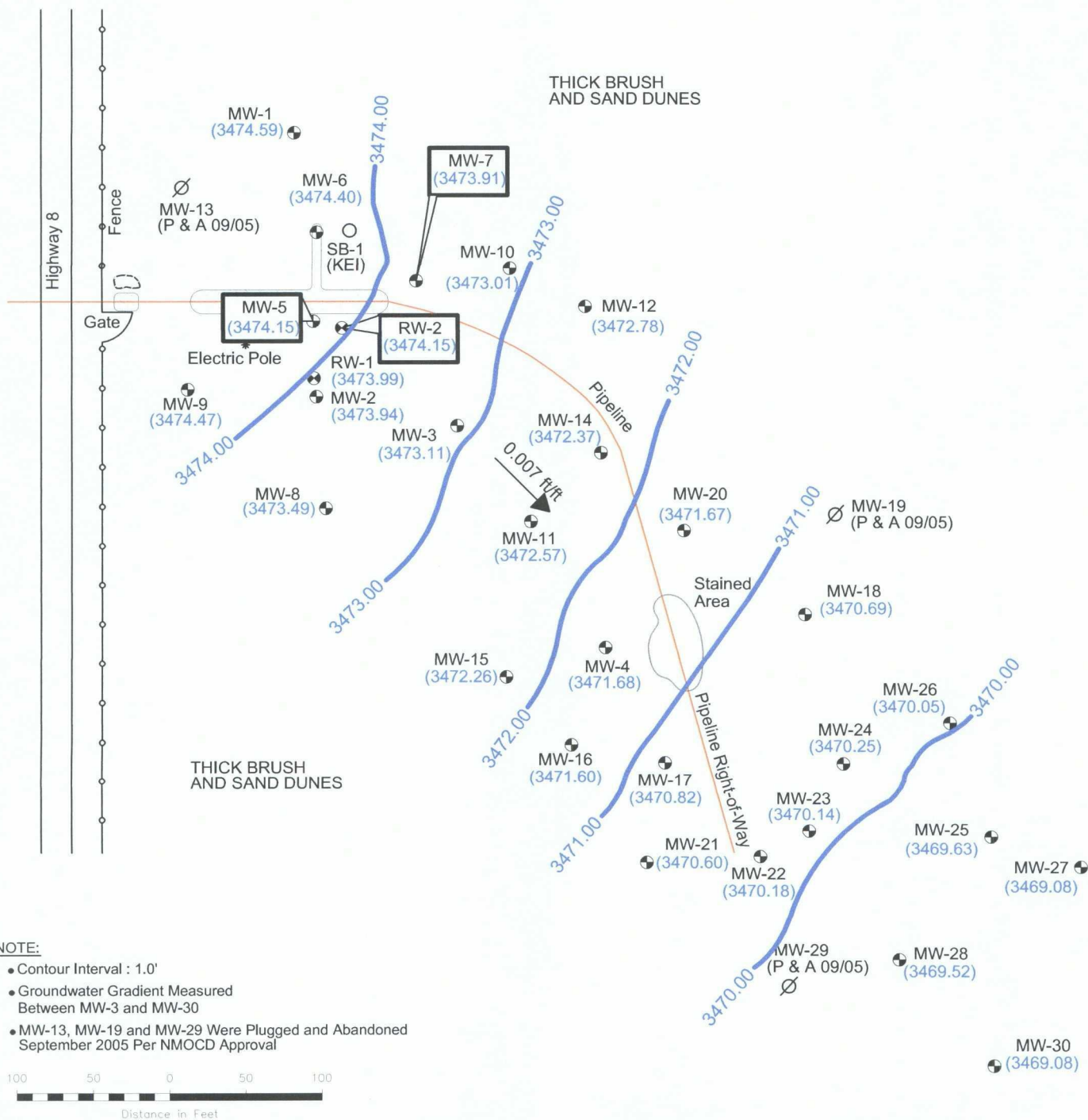


Figure 1  
 Site Location Map  
 Plains Marketing, L.P.  
 TMM 97-18  
 Plains EMS# TMM 97-18  
 Lea County, NM  
 NMCCD Reference # AP-13

**NOVA**

safety and environmental

LAL K27 32 57' Long W103 15 22'	Printed By: CDS	Checked By: CDS
Scale: 1" = 2 Miles	November 21, 2005	



LEGEND:

- |                            |                   |           |                                    |
|----------------------------|-------------------|-----------|------------------------------------|
| Monitor Well               | Stockpile Soil    | NG        | Not Gauged                         |
| Recovery Well              | Excavated Area    | (3473.00) | Groundwater Elevation in Feet      |
| Soil Boring                | Geoprobe Location |           | Groundwater Contour Line           |
| Well Plugged and Abandoned |                   |           | Groundwater Gradient and Magnitude |

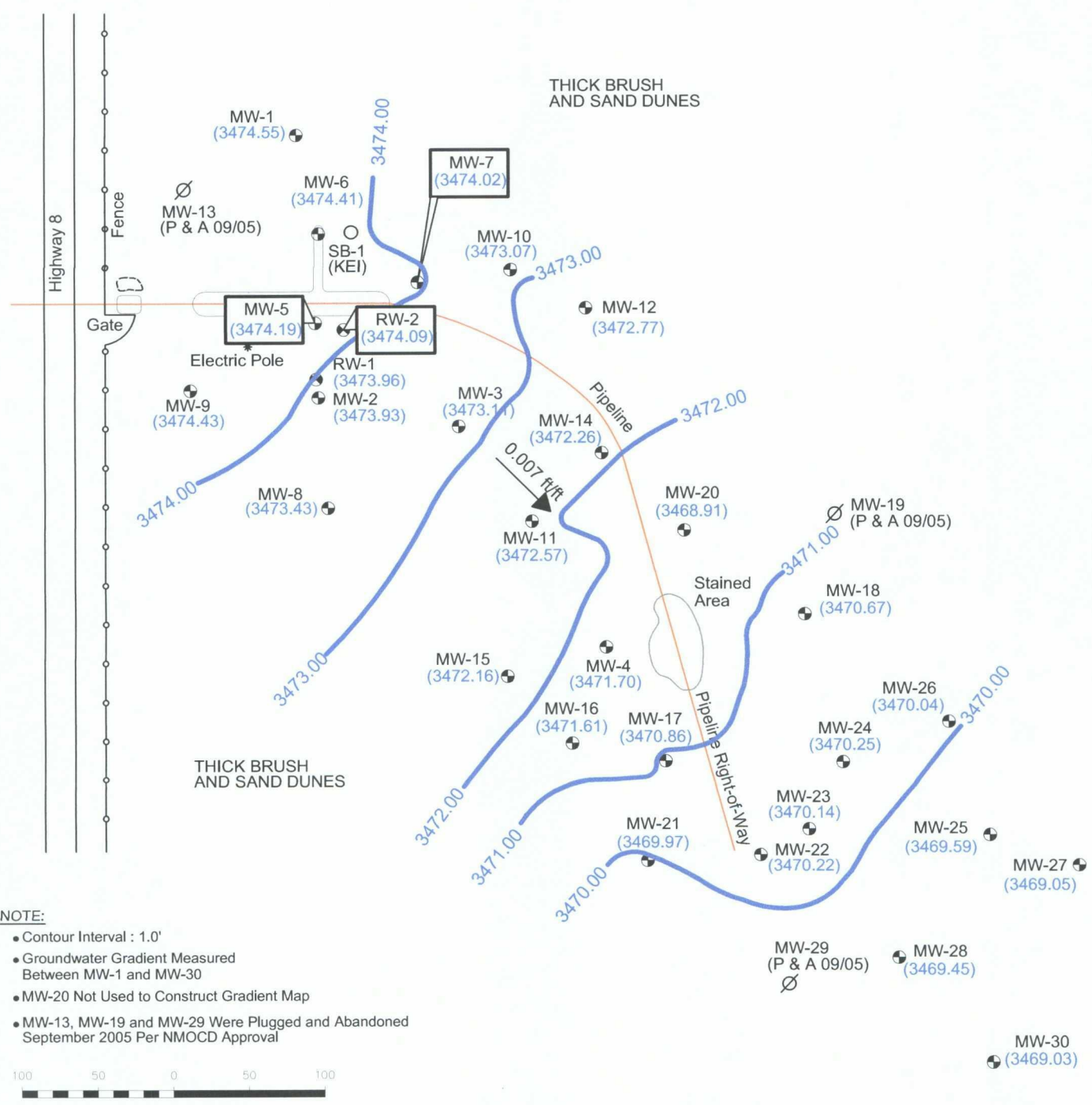
Figure 2A  
Inferred Groundwater  
Gradient Map  
(02/11/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM



2057 Commerce Drive  
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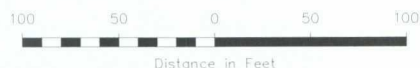
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June 22, 2009	SW14, NE 1/4, Section 28, T20S, R37E	





**NOTE:**

- Contour Interval : 1.0'
- Groundwater Gradient Measured Between MW-1 and MW-30
- MW-20 Not Used to Construct Gradient Map
- MW-13, MW-19 and MW-29 Were Plugged and Abandoned September 2005 Per NMOCD Approval



**LEGEND:**

- |                            |                   |           |                                    |
|----------------------------|-------------------|-----------|------------------------------------|
| Monitor Well               | Stockpile Soil    | NG        | Not Gauged                         |
| Recovery Well              | Excavated Area    | (3473.00) | Groundwater Elevation in Feet      |
| Soil Boring                | Geoprobe Location |           | Groundwater Contour Line           |
| Well Plugged and Abandoned |                   |           | Groundwater Gradient and Magnitude |

Figure 2B  
Inferred Groundwater  
Gradient Map  
(05/13/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM

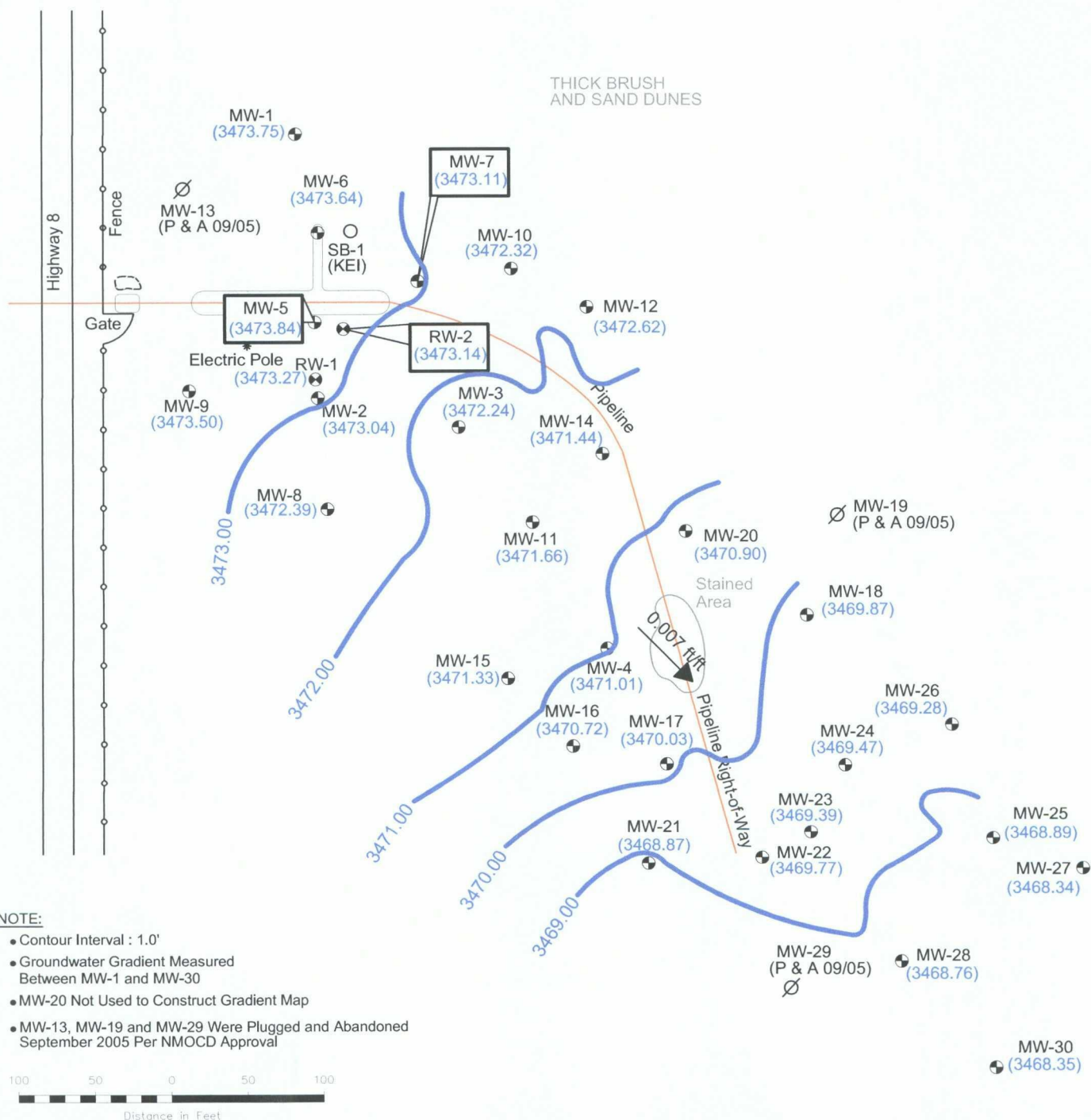


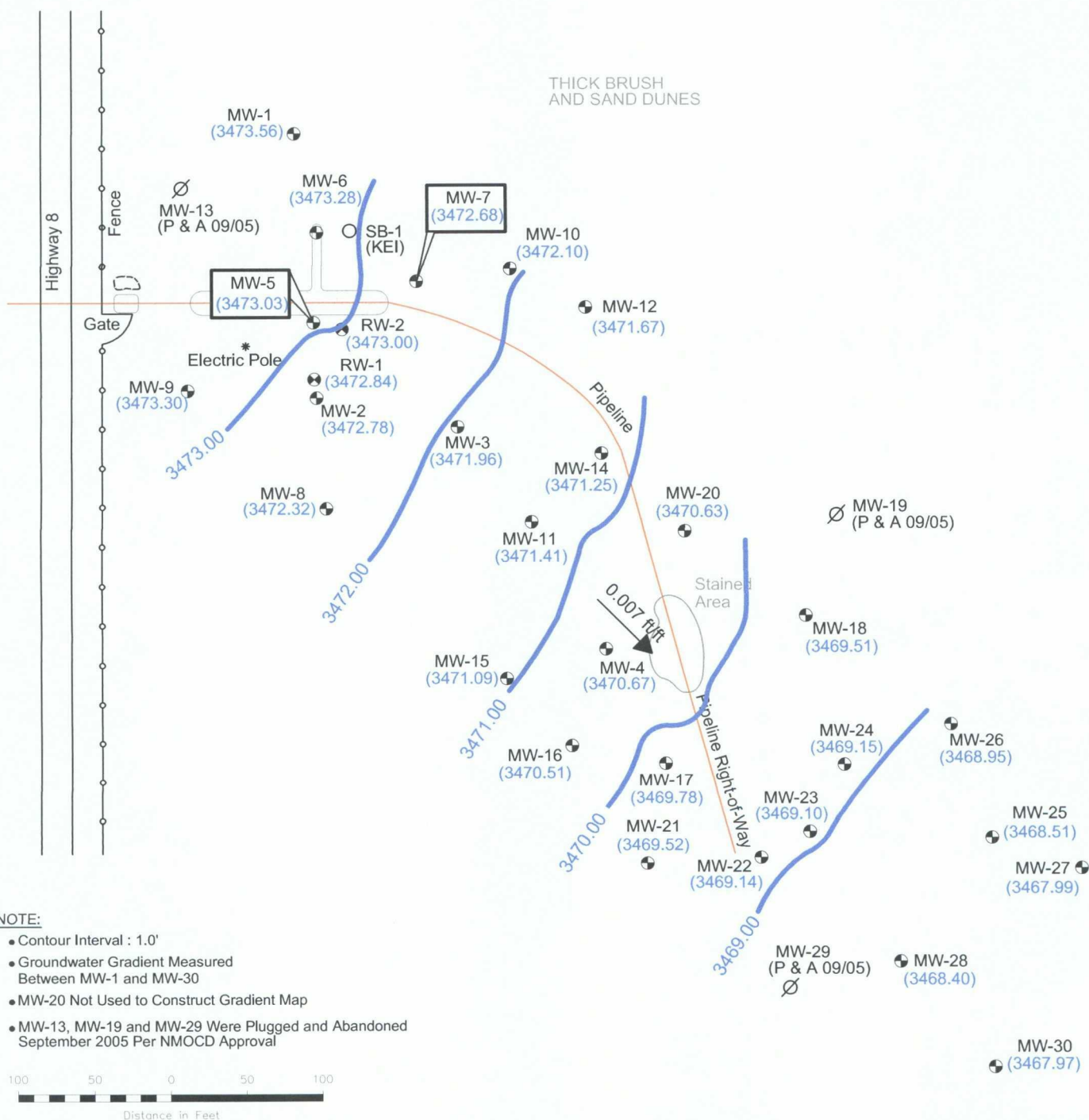
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Scale: 1" = 100'	CAD By: SAT	Checked By: RKR
August 19, 2009	SW1/4, NE 1/4, Section 28, T20S, R37E	



THICK BRUSH  
AND SAND DUNES





LEGEND:		NG	
	Monitor Well		Stockpile Soil
	Recovery Well		Excavated Area
	Soil Boring		Geoprobe Location
	Well Plugged and Abandoned		Groundwater Elevation In Feet
			Groundwater Contour Line
			Groundwater Gradient and Magnitude

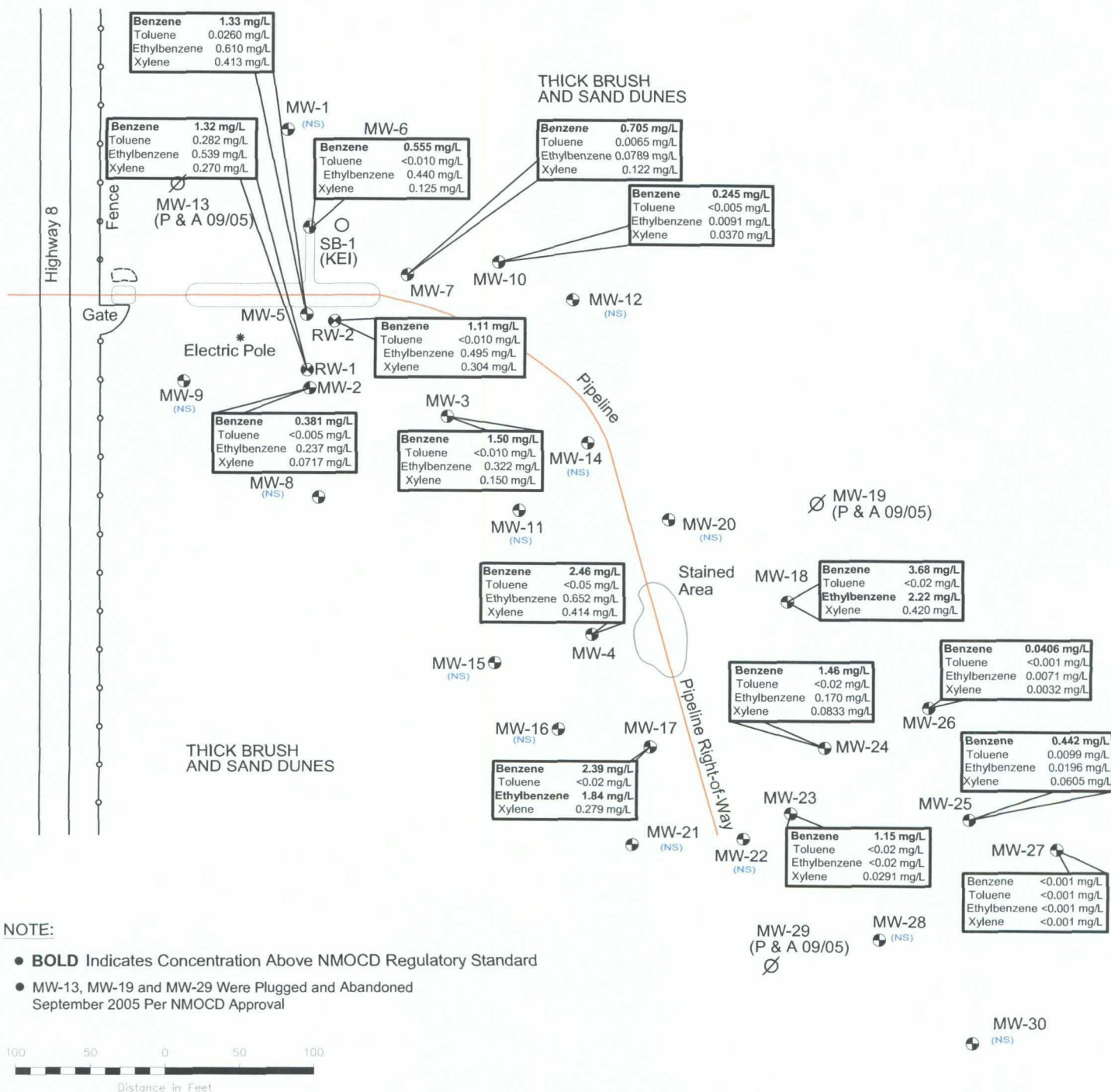
Figure 2D  
Inferred Groundwater  
Gradient Map  
(11/23/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM



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Scale: 1" = 100'	CAD By: SAT	Checked By: RGR
December 18, 2009	SW14, NE 1/4, Section 28, T20S, R37E	





LEGEND:

	Monitor Well		Stockpile Soil	NG	Not Gauged
	Recovery Well		Excavated Area	(3473.00)	Groundwater Elevation in Feet
	Soil Boring		Geoprobe Location		Groundwater Contour Line
	Well Plugged and Abandoned				Groundwater Gradient and Magnitude

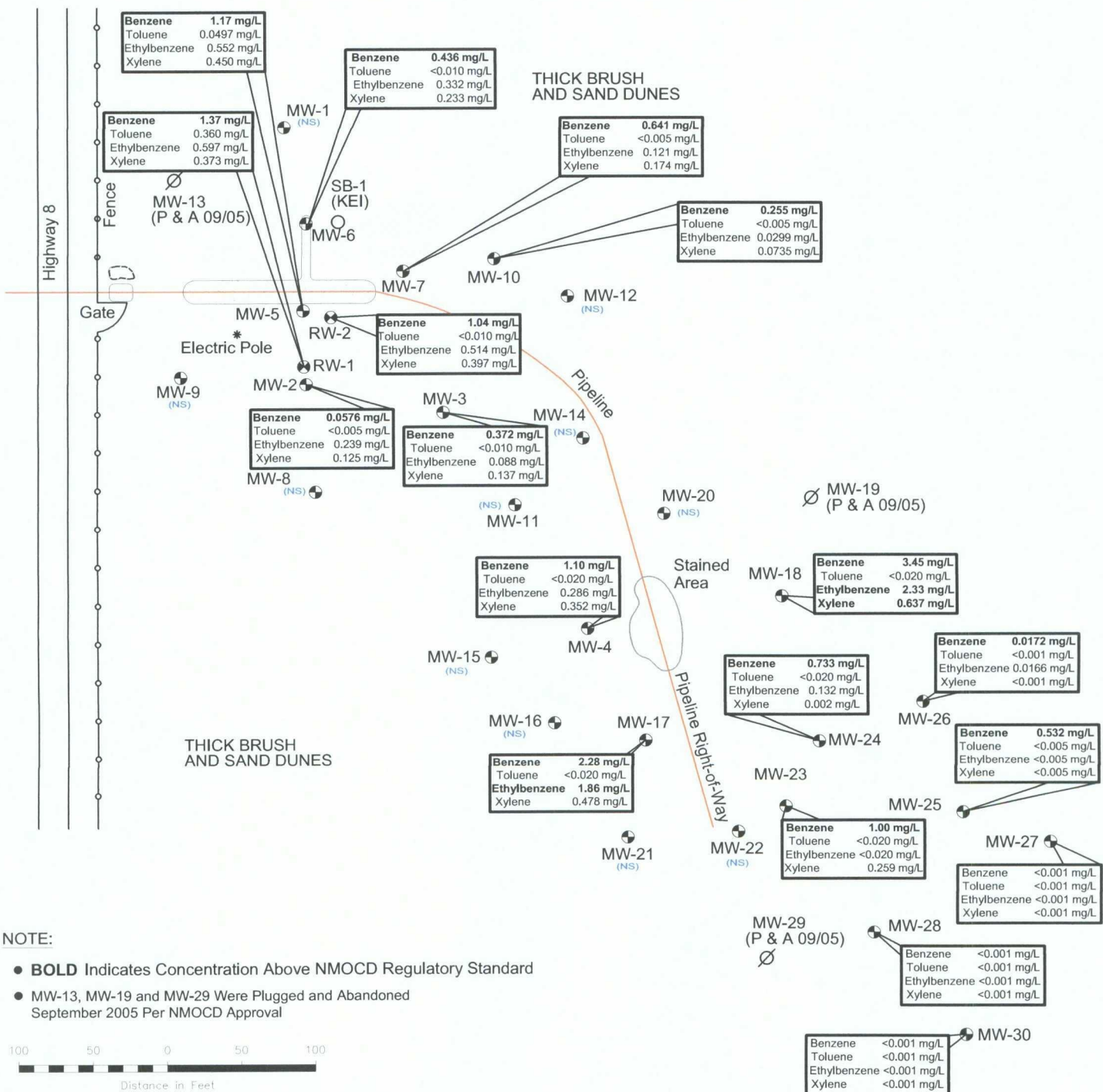
Figure 3A  
Groundwater Concentration  
and Inferred PSH Extent  
Map (02/11/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM



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Scale: 1" = 100' CAD By: SAT Checked By: RGR  
June 23, 2009 SW14, NE 14, Section 28, T20S, R37E





LEGEND:

- Monitor Well
- Recovery Well
- Soil Boring
- Well Plugged and Abandoned

- Stockpile Soil
- Excavated Area
- Geoprobe Location

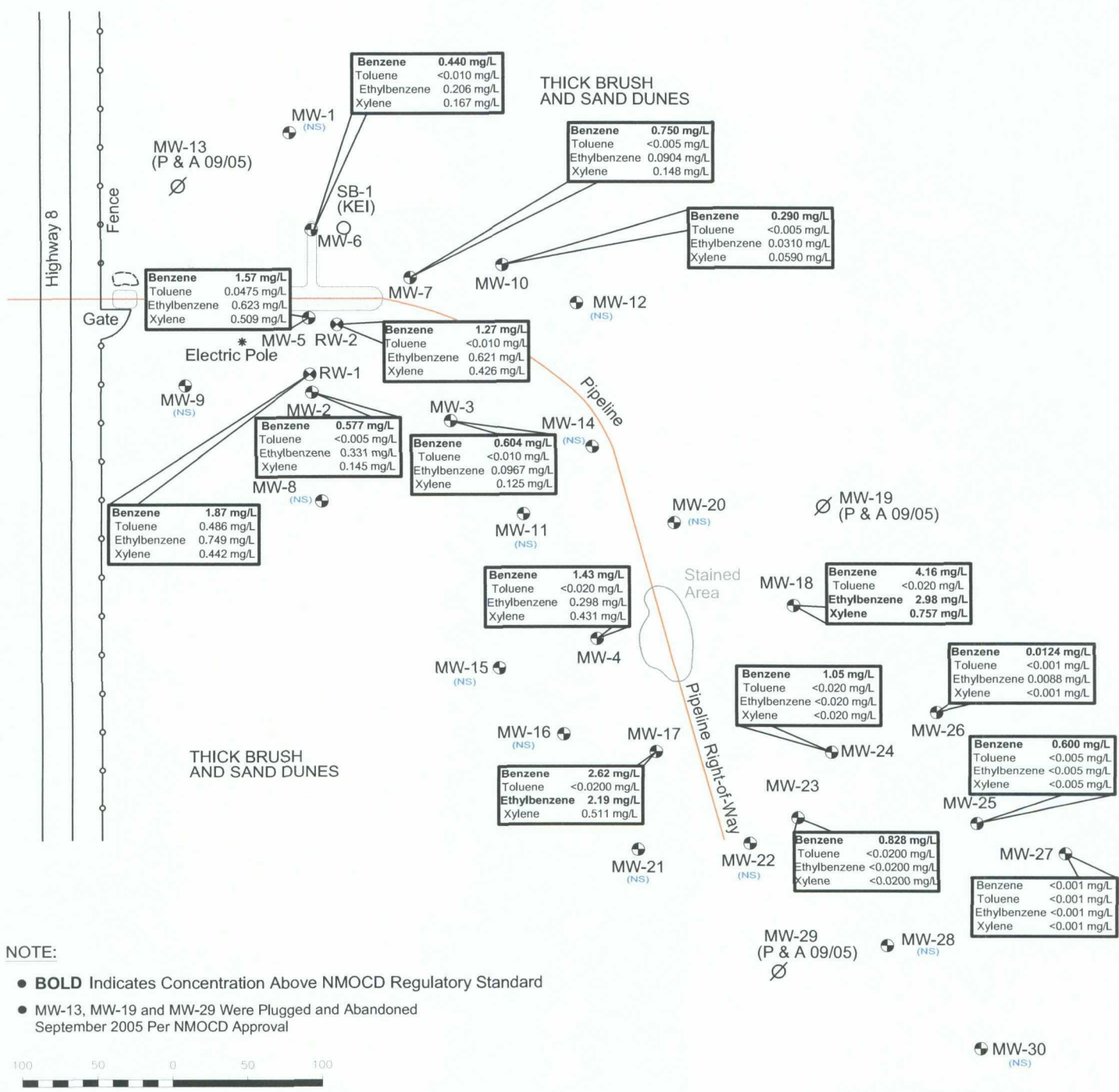
- NG Not Gauged
- (3473.00) Groundwater Elevation in Feet
- Groundwater Contour Line
- 0.001 mg/L Groundwater Gradient and Magnitude

Figure 3B  
Groundwater Concentration  
and Inferred PSH Extent  
Map (05/13/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM



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June 23, 2009 SW114, NE 1/4, Section 28, T20S, R37E



**NOTE:**

- **BOLD** Indicates Concentration Above NMOCD Regulatory Standard
- MW-13, MW-19 and MW-29 Were Plugged and Abandoned September 2005 Per NMOCD Approval

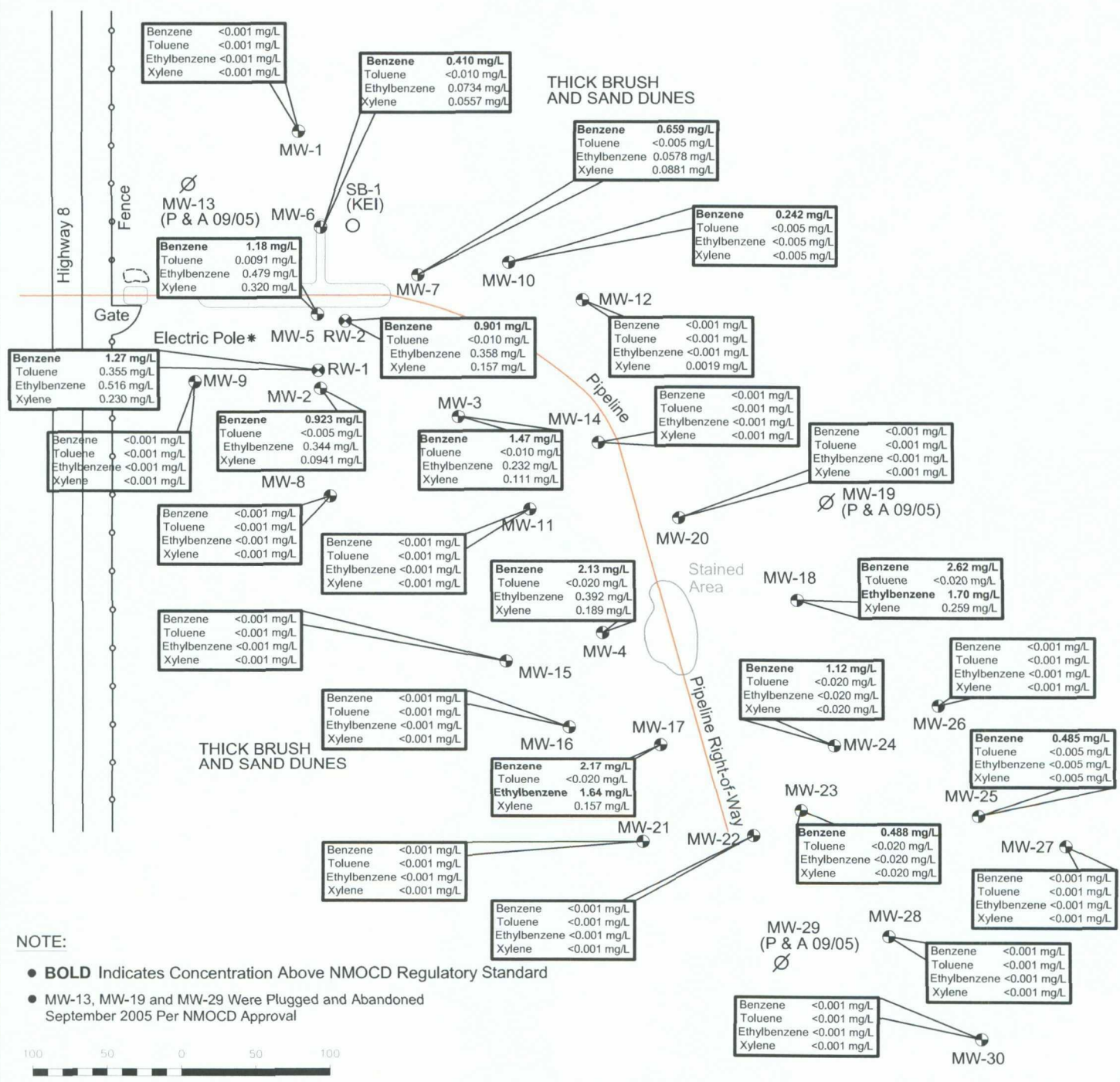
**LEGEND:**

- |                            |                   |           |
|----------------------------|-------------------|-----------|
| Monitor Well               | Stockpile Soil    | (NS)      |
| Recovery Well              | Excavated Area    | (3473.00) |
| Soil Boring                | Geoprobe Location |           |
| Well Plugged and Abandoned |                   |           |

Figure 3C  
Groundwater Concentration  
and Inferred PSH Extent  
Map (08/11/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM

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Scale: 1" = 100'	CAD By: SAT	Checked By: RKR
October 15, 2009	SW114, NE 1/4, Section 28, T20S, R37E	





**NOTE:**

- **BOLD** Indicates Concentration Above NMOCD Regulatory Standard
- MW-13, MW-19 and MW-29 Were Plugged and Abandoned September 2005 Per NMOCD Approval

**LEGEND:**


- Monitor Well
- Recovery Well
- Soil Boring
- Well Plugged and Abandoned
- Stockpile Soil
- Excavated Area
- Geoprobe Location
- (NS) Not Sampled
- (3473.00) Groundwater Elevation in Feet
- Groundwater Contour Line
- Groundwater Gradient and Magnitude

Figure 3D  
Groundwater Concentration and Inferred PSH Extent  
Map (11/23/09)  
NMOCD Ref # AP-0013  
Plains Marketing, L.P.  
TNM 97-18  
Lea County, NM



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Scale: 1" = 100' CAD By: SAT Checked By: RGR  
December 18, 2009 SW14, NE 1/4, Section 28, T20S, R37E



# Tables

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	02/11/09	3500.17	-	25.58	0.00	3474.59
MW - 1	05/13/09	3500.17	-	25.62	0.00	3474.55
MW - 1	08/11/09	3500.17	-	26.42	0.00	3473.75
MW - 1	11/23/09	3500.17	-	26.61	0.00	3473.56
MW - 2	02/11/09	3499.19	-	25.25	0.00	3473.94
MW - 2	02/24/09	3499.19	-	25.18	0.00	3474.01
MW - 2	03/04/09	3499.19	-	25.20	0.00	3473.99
MW - 2	03/17/09	3499.19	-	25.20	0.00	3473.99
MW - 2	03/25/09	3499.19	-	25.19	0.00	3474.00
MW - 2	04/08/09	3499.19	-	25.20	0.00	3473.99
MW - 2	04/15/09	3499.19	-	25.20	0.00	3473.99
MW - 2	04/29/09	3499.19	-	25.21	0.00	3473.98
MW - 2	05/13/09	3499.19	-	25.26	0.00	3473.93
MW - 2	06/01/09	3499.19	-	25.55	0.00	3473.64
MW - 2	06/10/09	3499.19	-	25.28	0.00	3473.91
MW - 2	06/12/09	3499.19	-	25.73	0.00	3473.46
MW - 2	06/18/09	3499.19	-	25.29	0.00	3473.90
MW - 2	06/24/09	3499.19	-	25.82	0.00	3473.37
MW - 2	07/02/09	3499.19	-	25.93	0.00	3473.26
MW - 2	07/08/09	3499.19	-	25.31	0.00	3473.88
MW - 2	07/14/09	3499.19	-	25.87	0.00	3473.32
MW - 2	07/20/09	3499.19	-	25.88	0.00	3473.31
MW - 2	07/27/09	3499.19	-	25.89	0.00	3473.30
MW - 2	08/03/09	3499.19	-	26.00	0.00	3473.19
MW - 2	08/11/09	3499.19	-	26.15	0.00	3473.04
MW - 2	08/18/09	3499.19	-	26.18	0.00	3473.01
MW - 2	08/24/09	3499.19	-	26.22	0.00	3472.97
MW - 2	08/31/09	3499.19	-	26.33	0.00	3472.86
MW - 2	09/03/09	3499.19	-	26.26	0.00	3472.93
MW - 2	09/08/09	3499.19	-	26.39	0.00	3472.80
MW - 2	09/10/09	3499.19	-	26.48	0.00	3472.71
MW - 2	09/16/09	3499.19	-	26.32	0.00	3472.87
MW - 2	09/22/09	3499.19	-	26.51	0.00	3472.68
MW - 2	09/29/09	3499.19	-	25.90	0.00	3473.29
MW - 2	10/02/09	3499.19	-	26.39	0.00	3472.80
MW - 2	10/07/09	3499.19	-	26.41	0.00	3472.78
MW - 2	10/12/09	3499.19	-	25.31	0.00	3473.88
MW - 2	10/16/09	3499.19	-	26.33	0.00	3472.86
MW - 2	10/20/09	3499.19	-	25.30	0.00	3473.89
MW - 2	10/26/09	3499.19	-	25.30	0.00	3473.89
MW - 2	10/28/09	3499.19	-	26.34	0.00	3472.85
MW - 2	11/04/09	3499.19	-	26.53	0.00	3472.66
MW - 2	11/12/09	3499.19	-	26.16	0.00	3473.03
MW - 2	11/23/09	3499.19	-	26.41	0.00	3472.78

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	02/11/09	3500.05	-	26.94	0.00	3473.11
MW - 3	02/24/09	3500.05	-	26.89	0.00	3473.16
MW - 3	03/04/09	3500.05	-	26.84	0.00	3473.21
MW - 3	03/17/09	3500.05	-	26.92	0.00	3473.13
MW - 3	03/25/09	3500.05	-	26.89	0.00	3473.16
MW - 3	04/08/09	3500.05	-	26.91	0.00	3473.14
MW - 3	04/15/09	3500.05	-	26.41	0.00	3473.64
MW - 3	04/29/09	3500.05	-	26.40	0.00	3473.65
MW - 3	05/13/09	3500.05	-	26.94	0.00	3473.11
MW - 3	06/10/09	3500.05	-	26.83	0.00	3473.22
MW - 3	06/12/09	3500.05	-	27.39	0.00	3472.66
MW - 3	06/18/09	3500.05	-	26.82	0.00	3473.23
MW - 3	07/02/09	3500.05	-	27.61	0.00	3472.44
MW - 3	07/08/09	3500.05	-	26.66	0.00	3473.39
MW - 3	07/14/09	3500.05	-	26.03	0.00	3474.02
MW - 3	07/20/09	3500.05	-	26.05	0.00	3474.00
MW - 3	07/27/09	3500.05	-	26.05	0.00	3474.00
MW - 3	08/03/09	3500.05	-	27.67	0.00	3472.38
MW - 3	08/10/09	3500.05	-	27.81	0.00	3472.24
MW - 3	08/11/09	3500.05	-	27.81	0.00	3472.24
MW - 3	08/24/09	3500.05	-	27.97	0.00	3472.08
MW - 3	08/31/09	3500.05	-	28.04	0.00	3472.01
MW - 3	09/03/09	3500.05	-	27.99	0.00	3472.06
MW - 3	09/08/09	3500.05	-	28.12	0.00	3471.93
MW - 3	09/10/09	3500.05	-	28.15	0.00	3471.90
MW - 3	09/16/09	3500.05	-	28.10	0.00	3471.95
MW - 3	09/22/09	3500.05	-	28.22	0.00	3471.83
MW - 3	09/29/09	3500.05	-	26.07	0.00	3473.98
MW - 3	10/02/09	3500.05	-	28.11	0.00	3471.94
MW - 3	10/07/09	3500.05	-	28.11	0.00	3471.94
MW - 3	10/12/09	3500.05	-	26.67	0.00	3473.38
MW - 3	10/16/09	3500.05	-	28.09	0.00	3471.96
MW - 3	10/20/09	3500.05	-	26.67	0.00	3473.38
MW - 3	10/26/09	3500.05	-	26.67	0.00	3473.38
MW - 3	10/28/09	3500.05	-	28.04	0.00	3472.01
MW - 3	11/04/09	3500.05	-	28.21	0.00	3471.84
MW - 3	11/12/09	3500.05	-	28.02	0.00	3472.03
MW - 3	11/23/09	3500.05	-	28.09	0.00	3471.96
MW - 4	02/11/09	3498.38	-	26.70	0.00	3471.68
MW - 4	02/24/09	3498.38	-	27.48	0.00	3470.90
MW - 4	03/04/09	3498.38	-	26.89	0.00	3471.49
MW - 4	03/17/09	3498.38	-	26.72	0.00	3471.66
MW - 4	03/25/09	3498.38	-	26.69	0.00	3471.69
MW - 4	04/08/09	3498.38	-	26.62	0.00	3471.76
MW - 4	04/15/09	3498.38	-	26.72	0.00	3471.66

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	04/15/09	3498.38	-	26.69	0.00	3471.69
MW - 4	05/13/09	3498.38	-	26.68	0.00	3471.70
MW - 4	06/01/09	3498.38	-	22.22	0.00	3476.16
MW - 4	06/10/09	3498.38	-	26.70	0.00	3471.68
MW - 4	06/12/09	3498.38	-	27.04	0.00	3471.34
MW - 4	06/18/09	3498.38	-	26.73	0.00	3471.65
MW - 4	06/24/09	3498.38	-	27.33	0.00	3471.05
MW - 4	07/02/09	3498.38	-	27.30	0.00	3471.08
MW - 4	07/08/09	3498.38	-	27.23	0.00	3471.15
MW - 4	07/14/09	3498.38	-	27.43	0.00	3470.95
MW - 4	07/20/09	3498.38	-	27.44	0.00	3470.94
MW - 4	07/27/09	3498.38	-	27.43	0.00	3470.95
MW - 4	08/03/09	3498.38	-	27.41	0.00	3470.97
MW - 4	08/10/09	3498.38	-	27.37	0.00	3471.01
MW - 4	08/11/09	3498.38	-	27.37	0.00	3471.01
MW - 4	08/18/09	3498.38	-	27.60	0.00	3470.78
MW - 4	08/24/09	3498.38	-	27.56	0.00	3470.82
MW - 4	08/31/09	3498.38	-	27.59	0.00	3470.79
MW - 4	09/03/09	3498.38	-	27.57	0.00	3470.81
MW - 4	09/08/09	3498.38	-	27.63	0.00	3470.75
MW - 4	09/10/09	3498.38	-	27.73	0.00	3470.65
MW - 4	09/16/09	3498.38	-	27.68	0.00	3470.70
MW - 4	09/22/09	3498.38	-	27.81	0.00	3470.57
MW - 4	09/29/09	3498.38	-	27.85	0.00	3470.53
MW - 4	10/02/09	3498.38	-	27.64	0.00	3470.74
MW - 4	10/07/09	3498.38	-	27.68	0.00	3470.70
MW - 4	10/12/09	3498.38	-	27.43	0.00	3470.95
MW - 4	10/16/09	3498.38	-	27.68	0.00	3470.70
MW - 4	10/20/09	3498.38	-	27.24	0.00	3471.14
MW - 4	10/26/09	3498.38	-	27.22	0.00	3471.16
MW - 4	10/28/09	3498.38	-	27.64	0.00	3470.74
MW - 4	11/04/09	3498.38	-	27.86	0.00	3470.52
MW - 4	11/12/09	3498.38	-	27.70	0.00	3470.68
MW - 4	11/23/09	3498.38	-	27.71	0.00	3470.67
MW - 5	02/11/09	3500.12	-	25.97	0.00	3474.15
MW - 5	02/24/09	3500.12	-	25.95	0.00	3474.17
MW - 5	03/04/09	3500.12	-	25.91	0.00	3474.21
MW - 5	03/17/09	3500.12	-	25.98	0.00	3474.14
MW - 5	03/25/09	3500.12	-	25.89	0.00	3474.23
MW - 5	04/08/09	3500.12	-	25.89	0.00	3474.23
MW - 5	04/15/09	3500.12	-	25.96	0.00	3474.16
MW - 5	04/29/09	3500.12	-	25.97	0.00	3474.15
MW - 5	05/13/09	3500.12	-	25.93	0.00	3474.19
MW - 5	06/01/09	3500.12	-	26.69	0.00	3473.43
MW - 5	06/10/09	3500.12	-	25.94	0.00	3474.18

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	06/12/09	3500.12	-	26.32	0.00	3473.80
MW - 5	06/18/09	3500.12	-	25.93	0.00	3474.19
MW - 5	06/24/09	3500.12	-	26.64	0.00	3473.48
MW - 5	07/02/09	3500.12	-	26.52	0.00	3473.60
MW - 5	07/08/09	3500.12	-	25.90	0.00	3474.22
MW - 5	07/14/09	3500.12	-	26.73	0.00	3473.39
MW - 5	07/20/09	3500.12	-	26.73	0.00	3473.39
MW - 5	07/27/09	3500.12	-	26.74	0.00	3473.38
MW - 5	08/03/09	3500.12	-	25.55	0.00	3474.57
MW - 5	08/10/09	3500.12	-	26.28	0.00	3473.84
MW - 5	08/11/09	3500.12	-	26.28	0.00	3473.84
MW - 5	08/18/09	3500.12	-	26.76	0.00	3473.36
MW - 5	08/24/09	3500.12	-	26.81	0.00	3473.31
MW - 5	08/31/09	3500.12	-	27.01	0.00	3473.11
MW - 5	09/03/09	3500.12	-	26.32	0.00	3473.80
MW - 5	09/08/09	3500.12	-	27.04	0.00	3473.08
MW - 5	09/11/09	3500.12	-	27.09	0.00	3473.03
MW - 5	09/16/09	3500.12	-	26.97	0.00	3473.15
MW - 5	09/22/09	3500.12	-	27.14	0.00	3472.98
MW - 5	09/29/09	3500.12	-	26.76	0.00	3473.36
MW - 5	10/02/09	3500.12	-	27.08	0.00	3473.04
MW - 5	10/07/09	3500.12	-	27.03	0.00	3473.09
MW - 5	10/12/09	3500.12	-	29.89	0.00	3470.23
MW - 5	10/16/09	3500.12	-	27.06	0.00	3473.06
MW - 5	10/20/09	3500.12	-	29.90	0.00	3470.22
MW - 5	10/26/09	3500.12	-	29.89	0.00	3470.23
MW - 5	10/28/09	3500.12	-	26.95	0.00	3473.17
MW - 5	11/04/09	3500.12	-	27.18	0.00	3472.94
MW - 5	11/12/09	3500.12	-	26.99	0.00	3473.13
MW - 5	11/23/09	3500.12	-	27.09	0.00	3473.03
MW - 6	02/11/09	3499.82	-	25.42	0.00	3474.40
MW - 6	02/24/09	3499.82	-	23.39	0.00	3476.43
MW - 6	03/04/09	3499.82	-	25.36	0.00	3474.46
MW - 6	03/17/09	3499.82	-	25.41	0.00	3474.41
MW - 6	03/25/09	3499.82	-	25.42	0.00	3474.40
MW - 6	04/08/09	3499.82	-	25.40	0.00	3474.42
MW - 6	04/15/09	3499.82	-	25.43	0.00	3474.39
MW - 6	04/29/09	3499.82	-	25.43	0.00	3474.39
MW - 6	05/13/09	3499.82	-	25.41	0.00	3474.41
MW - 6	06/10/09	3499.82	-	25.43	0.00	3474.39
MW - 6	06/12/09	3499.82	-	25.83	0.00	3473.99
MW - 6	06/18/09	3499.82	-	25.43	0.00	3474.39
MW - 6	07/02/09	3499.82	-	25.99	0.00	3473.83
MW - 6	07/08/09	3499.82	-	25.38	0.00	3474.44
MW - 6	07/14/09	3499.82	-	25.71	0.00	3474.11



TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	07/20/09	3499.82	-	25.72	0.00	3474.10
MW - 6	07/27/09	3499.82	-	25.73	0.00	3474.09
MW - 6	08/03/09	3499.82	-	26.11	0.00	3473.71
MW - 6	08/10/09	3499.82	-	26.18	0.00	3473.64
MW - 6	08/11/09	3499.82	-	26.18	0.00	3473.64
MW - 6	08/24/09	3499.82	-	26.36	0.00	3473.46
MW - 6	08/31/09	3499.82	-	26.42	0.00	3473.40
MW - 6	09/03/09	3499.82	-	26.38	0.00	3473.44
MW - 6	09/08/09	3499.82	-	26.51	0.00	3473.31
MW - 6	09/10/09	3499.82	-	26.55	0.00	3473.27
MW - 6	09/16/09	3499.82	-	26.48	0.00	3473.34
MW - 6	09/22/09	3499.82	-	26.59	0.00	3473.23
MW - 6	09/29/09	3499.82	-	25.73	0.00	3474.09
MW - 6	10/02/09	3499.82	-	26.49	0.00	3473.33
MW - 6	10/07/09	3499.82	-	26.53	0.00	3473.29
MW - 6	10/12/09	3499.82	-	25.38	0.00	3474.44
MW - 6	10/16/09	3499.82	-	26.36	0.00	3473.46
MW - 6	10/20/09	3499.82	-	25.37	0.00	3474.45
MW - 6	10/26/09	3499.82	-	25.37	0.00	3474.45
MW - 6	10/28/09	3499.82	-	26.50	0.00	3473.32
MW - 6	11/04/09	3499.82	-	26.65	0.00	3473.17
MW - 6	11/12/09	3499.82	-	26.50	0.00	3473.32
MW - 6	11/23/09	3499.82	-	26.54	0.00	3473.28
MW - 7	02/11/09	3498.33	-	24.42	0.00	3473.91
MW - 7	02/24/09	3498.33	-	24.33	0.00	3474.00
MW - 7	03/04/09	3498.33	-	24.35	0.00	3473.98
MW - 7	03/17/09	3498.33	-	24.35	0.00	3473.98
MW - 7	03/25/09	3498.33	-	24.36	0.00	3473.97
MW - 7	04/08/09	3498.33	-	24.29	0.00	3474.04
MW - 7	04/15/09	3498.33	-	24.35	0.00	3473.98
MW - 7	04/29/09	3498.33	-	24.34	0.00	3473.99
MW - 7	05/13/09	3498.33	-	24.31	0.00	3474.02
MW - 7	06/01/09	3498.33	-	24.65	0.00	3473.68
MW - 7	06/10/09	3498.33	-	24.33	0.00	3474.00
MW - 7	06/12/09	3498.33	-	24.75	0.00	3473.58
MW - 7	06/18/09	3498.33	-	24.34	0.00	3473.99
MW - 7	06/24/09	3498.33	-	24.89	0.00	3473.44
MW - 7	07/02/09	3498.33	-	24.98	0.00	3473.35
MW - 7	07/08/09	3498.33	-	24.30	0.00	3474.03
MW - 7	07/14/09	3498.33	-	25.01	0.00	3473.32
MW - 7	07/20/09	3498.33	-	25.01	0.00	3473.32
MW - 7	07/27/09	3498.33	-	25.01	0.00	3473.32
MW - 7	08/03/09	3498.33	-	25.00	0.00	3473.33
MW - 7	08/10/09	3498.33	-	25.18	0.00	3473.15

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 7	08/11/09	3498.33	-	25.22	0.00	3473.11
MW - 7	08/18/09	3498.33	-	25.28	0.00	3473.05
MW - 7	08/24/09	3498.33	-	25.28	0.00	3473.05
MW - 7	08/31/09	3498.33	-	25.41	0.00	3472.92
MW - 7	09/03/09	3498.33	-	25.31	0.00	3473.02
MW - 7	09/08/09	3498.33	-	25.49	0.00	3472.84
MW - 7	09/10/09	3498.33	-	25.50	0.00	3472.83
MW - 7	09/16/09	3498.33	-	25.46	0.00	3472.87
MW - 7	09/22/09	3498.33	-	25.69	0.00	3472.64
MW - 7	09/29/09	3498.33	-	25.03	0.00	3473.30
MW - 7	10/02/09	3498.33	-	25.53	0.00	3472.80
MW - 7	10/07/09	3498.33	-	25.50	0.00	3472.83
MW - 7	10/12/09	3498.33	-	24.31	0.00	3474.02
MW - 7	10/16/09	3498.33	-	25.32	0.00	3473.01
MW - 7	10/20/09	3498.33	-	24.33	0.00	3474.00
MW - 7	10/26/09	3498.33	-	24.33	0.00	3474.00
MW - 7	10/28/09	3498.33	-	25.39	0.00	3472.94
MW - 7	11/04/09	3498.33	-	25.66	0.00	3472.67
MW - 7	11/12/09	3498.33	-	25.46	0.00	3472.87
MW - 7	11/23/09	3498.33	-	25.65	0.00	3472.68
MW - 8	02/11/09	3502.23	-	28.74	0.00	3473.49
MW - 8	05/13/09	3502.23	-	28.80	0.00	3473.43
MW - 8	08/11/09	3502.23	-	29.84	0.00	3472.39
MW - 8	11/23/09	3502.23	-	29.91	0.00	3472.32
MW - 9	02/11/09	3502.24	-	27.77	0.00	3474.47
MW - 9	05/13/09	3502.24	-	27.81	0.00	3474.43
MW - 9	08/11/09	3502.24	-	28.74	0.00	3473.50
MW - 9	11/23/09	3502.24	-	28.94	0.00	3473.30
MW - 10	02/11/09	3499.42	-	26.41	0.00	3473.01
MW - 10	02/24/09	3499.42	-	26.41	0.00	3473.01
MW - 10	03/04/09	3499.42	-	26.38	0.00	3473.04
MW - 10	03/17/09	3499.42	-	26.44	0.00	3472.98
MW - 10	03/25/09	3499.42	-	26.31	0.00	3473.11
MW - 10	04/08/09	3499.42	-	26.18	0.00	3473.24
MW - 10	04/15/09	3499.42	-	26.43	0.00	3472.99
MW - 10	04/29/09	3499.42	-	26.41	0.00	3473.01
MW - 10	05/13/09	3499.42	-	26.35	0.00	3473.07
MW - 10	06/01/09	3499.42	-	26.59	0.00	3472.83
MW - 10	06/10/09	3499.42	-	26.37	0.00	3473.05
MW - 10	06/12/09	3499.42	-	26.73	0.00	3472.69
MW - 10	06/18/09	3499.42	-	26.35	0.00	3473.07
MW - 10	06/24/09	3499.42	-	26.88	0.00	3472.54

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOC D REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 10	07/02/09	3499.42	-	26.85	0.00	3472.57
MW - 10	07/08/09	3499.42	-	26.38	0.00	3473.04
MW - 10	07/14/09	3499.42	-	27.02	0.00	3472.40
MW - 10	07/20/09	3499.42	-	27.03	0.00	3472.39
MW - 10	07/27/09	3499.42	-	27.04	0.00	3472.38
MW - 10	08/03/09	3499.42	-	26.96	0.00	3472.46
MW - 10	08/10/09	3499.42	-	27.10	0.00	3472.32
MW - 10	08/11/09	3499.42	-	27.10	0.00	3472.32
MW - 10	08/18/09	3499.42	-	27.16	0.00	3472.26
MW - 10	08/24/09	3499.42	-	27.21	0.00	3472.21
MW - 10	08/31/09	3499.42	-	27.30	0.00	3472.12
MW - 10	09/03/09	3499.42	-	27.23	0.00	3472.19
MW - 10	09/08/09	3499.42	-	27.33	0.00	3472.09
MW - 10	09/10/09	3499.42	-	27.40	0.00	3472.02
MW - 10	09/16/09	3499.42	-	27.32	0.00	3472.10
MW - 10	09/22/09	3499.42	-	27.45	0.00	3471.97
MW - 10	09/29/09	3499.42	-	27.05	0.00	3472.37
MW - 10	10/02/09	3499.42	-	27.23	0.00	3472.19
MW - 10	10/07/09	3499.42	-	27.32	0.00	3472.10
MW - 10	10/12/09	3499.42	-	26.38	0.00	3473.04
MW - 10	10/16/09	3499.42	-	27.28	0.00	3472.14
MW - 10	10/20/09	3499.42	-	26.39	0.00	3473.03
MW - 10	10/26/09	3499.42	-	26.39	0.00	3473.03
MW - 10	10/28/09	3499.42	-	27.24	0.00	3472.18
MW - 10	11/04/09	3499.42	-	27.43	0.00	3471.99
MW - 10	11/12/09	3499.42	-	27.25	0.00	3472.17
MW - 10	11/23/09	3499.42	-	27.32	0.00	3472.10
MW - 11	02/11/09	3498.18	-	25.61	0.00	3472.57
MW - 11	05/13/09	3498.18	-	25.71	0.00	3472.47
MW - 11	08/11/09	3498.18	-	26.52	0.00	3471.66
MW - 11	11/23/09	3498.18	-	26.77	0.00	3471.41
MW - 12	02/11/09	3499.66	-	26.88	0.00	3472.78
MW - 12	05/13/09	3499.66	-	26.89	0.00	3472.77
MW - 12	08/11/09	3499.66	-	27.04	0.00	3472.62
MW - 12	11/23/09	3499.66	-	27.99	0.00	3471.67
MW - 14	02/11/09	3498.54	-	26.17	0.00	3472.37
MW - 14	05/13/09	3498.54	-	26.28	0.00	3472.26
MW - 14	08/11/09	3498.54	-	27.10	0.00	3471.44
MW - 14	11/23/09	3498.54	-	27.29	0.00	3471.25

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	02/11/09	3500.65	-	28.39	0.00	3472.26
MW - 15	05/13/09	3500.65	-	28.49	0.00	3472.16
MW - 15	08/11/09	3500.65	-	29.32	0.00	3471.33
MW - 15	11/23/09	3500.65	-	29.56	0.00	3471.09
MW - 16	02/11/09	3501.45	-	29.85	0.00	3471.60
MW - 16	05/13/09	3501.45	-	29.84	0.00	3471.61
MW - 16	08/11/09	3501.45	-	30.73	0.00	3470.72
MW - 16	11/23/09	3501.45	-	30.94	0.00	3470.51
MW - 17	02/11/09	3498.32	-	27.50	0.00	3470.82
MW - 17	02/24/09	3498.32	-	27.41	0.00	3470.91
MW - 17	03/04/09	3498.32	-	27.37	0.00	3470.95
MW - 17	03/17/09	3498.32	-	27.43	0.00	3470.89
MW - 17	03/25/09	3498.32	-	27.44	0.00	3470.88
MW - 17	04/08/09	3498.32	-	27.42	0.00	3470.90
MW - 17	04/15/09	3498.32	-	26.72	0.00	3471.60
MW - 17	04/29/09	3498.32	-	27.43	0.00	3470.89
MW - 17	05/13/09	3498.32	-	27.46	0.00	3470.86
MW - 17	06/10/09	3498.32	-	27.48	0.00	3470.84
MW - 17	06/12/09	3498.32	-	27.94	0.00	3470.38
MW - 17	06/18/09	3498.32	-	27.48	0.00	3470.84
MW - 17	07/02/09	3498.32	-	28.09	0.00	3470.23
MW - 17	07/08/09	3498.32	-	28.06	0.00	3470.26
MW - 17	07/14/09	3498.32	-	28.11	0.00	3470.21
MW - 17	07/20/09	3498.32	-	28.13	0.00	3470.19
MW - 17	07/27/09	3498.32	-	28.13	0.00	3470.19
MW - 17	08/03/09	3498.32	-	28.15	0.00	3470.17
MW - 17	08/11/09	3498.32	-	28.29	0.00	3470.03
MW - 17	08/24/09	3498.32	-	28.23	0.00	3470.09
MW - 17	08/31/09	3498.32	-	28.27	0.00	3470.05
MW - 17	09/08/09	3498.32	-	28.46	0.00	3469.86
MW - 17	09/22/09	3498.32	-	28.46	0.00	3469.86
MW - 17	09/29/09	3498.32	-	28.15	0.00	3470.17
MW - 17	10/07/09	3498.32	-	28.51	0.00	3469.81
MW - 17	10/12/09	3498.32	-	28.09	0.00	3470.23
MW - 17	10/16/09	3498.32	-	28.51	0.00	3469.81
MW - 17	10/26/09	3498.32	-	28.10	0.00	3470.22
MW - 17	11/12/09	3498.32	-	28.54	0.00	3469.78
MW - 17	11/23/09	3498.32	-	28.54	0.00	3469.78
MW - 18	02/11/09	3497.25	-	26.56	0.00	3470.69
MW - 18	02/24/09	3497.25	-	27.98	0.00	3469.27
MW - 18	03/04/09	3497.25	-	26.47	0.00	3470.78
MW - 18	03/17/09	3497.25	-	27.51	0.00	3469.74
MW - 18	03/25/09	3497.25	-	26.48	0.00	3470.77

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOC D REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 18	04/08/09	3497.25	-	26.49	0.00	3470.76
MW - 18	04/15/09	3497.25	-	27.50	0.00	3469.75
MW - 18	04/15/09	3497.25	-	25.52	0.00	3471.73
MW - 18	05/13/09	3497.25	-	26.58	0.00	3470.67
MW - 18	06/10/09	3497.25	-	26.60	0.00	3470.65
MW - 18	06/18/09	3497.25	-	26.60	0.00	3470.65
MW - 18	07/02/09	3497.25	-	27.24	0.00	3470.01
MW - 18	07/08/09	3497.25	-	27.22	0.00	3470.03
MW - 18	07/14/09	3497.25	-	27.25	0.00	3470.00
MW - 18	07/20/09	3497.25	-	27.27	0.00	3469.98
MW - 18	07/27/09	3497.25	-	27.28	0.00	3469.97
MW - 18	08/03/09	3497.25	-	27.26	0.00	3469.99
MW - 18	08/11/09	3497.25	-	27.38	0.00	3469.87
MW - 18	08/24/09	3497.25	-	37.47	0.00	3459.78
MW - 18	08/31/09	3497.25	-	37.39	0.00	3459.86
MW - 18	09/08/09	3497.25	-	27.55	0.00	3469.70
MW - 18	09/22/09	3497.25	-	27.57	0.00	3469.68
MW - 18	09/29/09	3497.25	-	27.29	0.00	3469.96
MW - 18	10/07/09	3497.25	-	27.62	0.00	3469.63
MW - 18	10/12/09	3497.25	-	27.24	0.00	3470.01
MW - 18	10/16/09	3497.25	-	27.56	0.00	3469.69
MW - 18	10/26/09	3497.25	-	27.26	0.00	3469.99
MW - 18	11/12/09	3497.25	-	27.67	0.00	3469.58
MW - 18	11/23/09	3497.25	-	27.74	0.00	3469.51
MW - 20	02/11/09	3496.59	-	24.92	0.00	3471.67
MW - 20	05/13/09	3496.59	-	27.68	0.00	3468.91
MW - 20	08/11/09	3496.59	-	25.69	0.00	3470.90
MW - 20	11/23/09	3496.59	-	25.96	0.00	3470.63
MW - 21	02/11/09	3503.03	-	32.43	0.00	3470.60
MW - 21	05/13/09	3503.03	-	33.06	0.00	3469.97
MW - 21	08/11/09	3503.03	-	34.16	0.00	3468.87
MW - 21	11/23/09	3503.03	-	33.51	0.00	3469.52
MW - 22	02/11/09	3500.05	-	29.87	0.00	3470.18
MW - 22	05/13/09	3500.05	-	29.83	0.00	3470.22
MW - 22	08/11/09	3500.05	-	30.28	0.00	3469.77
MW - 22	11/23/09	3500.05	-	30.91	0.00	3469.14
MW - 23	02/11/09	3498.88	-	28.74	0.00	3470.14
MW - 23	02/24/09	3498.88	-	28.65	0.00	3470.23
MW - 23	03/04/09	3498.88	-	28.65	0.00	3470.23
MW - 23	03/17/09	3498.88	-	28.67	0.00	3470.21
MW - 23	03/25/09	3498.88	-	28.68	0.00	3470.20
MW - 23	04/08/09	3498.88	-	28.67	0.00	3470.21

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 23	04/15/09	3498.88	-	28.66	0.00	3470.22
MW - 23	04/15/09	3498.88	-	28.65	0.00	3470.23
MW - 23	05/13/09	3498.88	-	28.74	0.00	3470.14
MW - 23	06/10/09	3498.88	-	28.75	0.00	3470.13
MW - 23	06/12/09	3498.88	-	29.15	0.00	3469.73
MW - 23	06/18/09	3498.88	-	28.74	0.00	3470.14
MW - 23	07/02/09	3498.88	-	29.30	0.00	3469.58
MW - 23	07/08/09	3498.88	-	29.28	0.00	3469.60
MW - 23	07/14/09	3498.88	-	29.32	0.00	3469.56
MW - 23	07/20/09	3498.88	-	29.34	0.00	3469.54
MW - 23	07/27/09	3498.88	-	29.35	0.00	3469.53
MW - 23	08/03/09	3498.88	-	29.38	0.00	3469.50
MW - 23	08/11/09	3498.88	-	29.49	0.00	3469.39
MW - 23	08/24/09	3498.88	-	39.13	0.00	3459.75
MW - 23	08/31/09	3498.88	-	39.16	0.00	3459.72
MW - 23	09/08/09	3498.88	-	29.57	0.00	3469.31
MW - 23	09/22/09	3498.88	-	29.58	0.00	3469.30
MW - 23	09/29/09	3498.88	-	29.35	0.00	3469.53
MW - 23	10/07/09	3498.88	-	29.71	0.00	3469.17
MW - 23	10/12/09	3498.88	-	29.30	0.00	3469.58
MW - 23	10/16/09	3498.88	-	29.59	0.00	3469.29
MW - 23	10/26/09	3498.88	-	29.31	0.00	3469.57
MW - 23	11/12/09	3498.88	-	29.76	0.00	3469.12
MW - 23	11/23/09	3498.88	-	29.78	0.00	3469.10
MW - 24	02/11/09	3498.79	-	28.54	0.00	3470.25
MW - 24	02/24/09	3498.79	-	28.54	0.00	3470.25
MW - 24	03/04/09	3498.79	-	28.50	0.00	3470.29
MW - 24	03/17/09	3498.79	-	28.56	0.00	3470.23
MW - 24	03/25/09	3498.79	-	28.52	0.00	3470.27
MW - 24	04/08/09	3498.79	-	28.54	0.00	3470.25
MW - 24	04/15/09	3498.79	-	28.57	0.00	3470.22
MW - 24	04/29/09	3498.79	-	28.54	0.00	3470.25
MW - 24	05/13/09	3498.79	-	28.59	0.00	3470.20
MW - 24	06/10/09	3498.79	-	26.61	0.00	3472.18
MW - 24	06/12/09	3498.79	-	24.00	0.00	3474.79
MW - 24	06/18/09	3498.79	-	28.61	0.00	3470.18
MW - 24	07/02/09	3498.79	-	29.13	0.00	3469.66
MW - 24	07/08/09	3498.79	-	29.18	0.00	3469.61
MW - 24	07/14/09	3498.79	-	29.20	0.00	3469.59
MW - 24	07/27/09	3498.79	-	29.22	0.00	3469.57
MW - 24	08/03/09	3498.79	-	29.26	0.00	3469.53
MW - 24	08/11/09	3498.79	-	29.32	0.00	3469.47
MW - 24	08/24/09	3498.79	-	36.76	0.00	3462.03
MW - 24	08/31/09	3498.79	-	36.78	0.00	3462.01
MW - 24	09/08/09	3498.79	-	29.49	0.00	3469.30

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 24	09/22/09	3498.79	-	29.52	0.00	3469.27
MW - 24	09/29/09	3498.79	-	29.23	0.00	3469.56
MW - 24	10/07/09	3498.79	-	29.57	0.00	3469.22
MW - 24	10/12/09	3498.79	-	29.20	0.00	3469.59
MW - 24	10/16/09	3498.79	-	29.53	0.00	3469.26
MW - 24	10/26/09	3498.79	-	29.20	0.00	3469.59
MW - 24	11/12/09	3498.79	-	29.61	0.00	3469.18
MW - 24	11/23/09	3498.79	-	29.64	0.00	3469.15
MW - 25	02/11/09	3498.08	-	28.45	0.00	3469.63
MW - 25	02/24/09	3498.08	-	28.40	0.00	3469.68
MW - 25	03/04/09	3498.08	-	28.41	0.00	3469.67
MW - 25	03/17/09	3498.08	-	28.44	0.00	3469.64
MW - 25	03/25/09	3498.08	-	28.41	0.00	3469.67
MW - 25	04/08/09	3498.08	-	28.45	0.00	3469.63
MW - 25	04/15/09	3498.08	-	28.46	0.00	3469.62
MW - 25	04/29/09	3498.08	-	25.46	0.00	3472.62
MW - 25	05/13/09	3498.08	-	28.49	0.00	3469.59
MW - 25	06/10/09	3498.08	-	28.52	0.00	3469.56
MW - 25	06/18/09	3498.08	-	28.52	0.00	3469.56
MW - 25	07/02/09	3498.08	-	29.03	0.00	3469.05
MW - 25	07/08/09	3498.08	-	29.05	0.00	3469.03
MW - 25	07/14/09	3498.08	-	29.11	0.00	3468.97
MW - 25	07/20/09	3498.08	-	29.12	0.00	3468.96
MW - 25	07/27/09	3498.08	-	29.13	0.00	3468.95
MW - 25	08/03/09	3498.08	-	29.12	0.00	3468.96
MW - 25	08/11/09	3498.08	-	29.19	0.00	3468.89
MW - 25	08/24/09	3498.08	-	39.37	0.00	3458.71
MW - 25	08/31/09	3498.08	-	39.34	0.00	3458.74
MW - 25	09/08/09	3498.08	-	29.31	0.00	3468.77
MW - 25	09/22/09	3498.08	-	29.38	0.00	3468.70
MW - 25	09/29/09	3498.08	-	29.15	0.00	3468.93
MW - 25	10/07/09	3498.08	-	29.48	0.00	3468.60
MW - 25	10/12/09	3498.08	-	29.06	0.00	3469.02
MW - 25	10/16/09	3498.08	-	29.38	0.00	3468.70
MW - 25	10/26/09	3498.08	-	29.07	0.00	3469.01
MW - 25	11/12/09	3498.08	-	29.55	0.00	3468.53
MW - 25	11/23/09	3498.08	-	29.57	0.00	3468.51
MW - 26	02/11/09	3499.18	-	29.13	0.00	3470.05
MW - 26	02/24/09	3499.18	-	29.07	0.00	3470.11
MW - 26	03/04/09	3499.18	-	29.08	0.00	3470.10
MW - 26	03/17/09	3499.18	-	29.09	0.00	3470.09
MW - 26	03/25/09	3499.18	-	29.06	0.00	3470.12
MW - 26	04/08/09	3499.18	-	29.08	0.00	3470.10
MW - 26	04/15/09	3499.18	-	29.10	0.00	3470.08

TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 26	04/29/09	3499.18	-	29.13	0.00	3470.05
MW - 26	05/13/09	3499.18	-	29.14	0.00	3470.04
MW - 26	06/10/09	3499.18	-	29.16	0.00	3470.02
MW - 26	06/18/09	3499.18	-	29.16	0.00	3470.02
MW - 26	07/02/09	3499.18	-	29.74	0.00	3469.44
MW - 26	07/08/09	3499.18	-	29.72	0.00	3469.46
MW - 26	07/14/09	3499.18	-	29.77	0.00	3469.41
MW - 26	07/20/09	3499.18	-	29.79	0.00	3469.39
MW - 26	07/27/09	3499.18	-	29.80	0.00	3469.38
MW - 26	08/03/09	3499.18	-	29.79	0.00	3469.39
MW - 26	08/11/09	3499.18	-	29.90	0.00	3469.28
MW - 26	09/29/09	3499.18	-	29.82	0.00	3469.36
MW - 26	10/12/09	3499.18	-	29.73	0.00	3469.45
MW - 26	10/26/09	3499.18	-	29.72	0.00	3469.46
MW - 26	11/12/09	3499.18	-	30.21	0.00	3468.97
MW - 26	11/23/09	3499.18	-	30.23	0.00	3468.95
MW - 27	02/11/09	3498.03	-	28.95	0.00	3469.08
MW - 27	05/13/09	3498.03	-	28.98	0.00	3469.05
MW - 27	08/11/09	3498.03	-	29.69	0.00	3468.34
MW - 27	11/23/09	3498.03	-	30.04	0.00	3467.99
MW - 28	02/11/09	3498.69	-	29.17	0.00	3469.52
MW - 28	05/13/09	3498.69	-	29.24	0.00	3469.45
MW - 28	08/11/09	3498.69	-	29.93	0.00	3468.76
MW - 28	11/23/09	3498.69	-	30.29	0.00	3468.40
MW - 30	02/11/09	3498.65	-	29.57	0.00	3469.08
MW - 30	05/13/09	3498.65	-	29.62	0.00	3469.03
MW - 30	08/11/09	3498.65	-	30.30	0.00	3468.35
MW - 30	11/23/09	3498.65	-	30.68	0.00	3467.97
RW - 1	02/11/09	3498.89	-	24.90	0.00	3473.99
RW - 1	02/24/09	3498.89	-	24.91	0.00	3473.98
RW - 1	03/04/09	3498.89	-	24.85	0.00	3474.04
RW - 1	03/17/09	3498.89	-	24.94	0.00	3473.95
RW - 1	03/25/09	3498.89	-	24.85	0.00	3474.04
RW - 1	04/08/09	3498.89	-	24.88	0.00	3474.01
RW - 1	04/15/09	3498.89	-	24.96	0.00	3473.93
RW - 1	04/29/09	3498.89	-	24.94	0.00	3473.95
RW - 1	05/13/09	3498.89	-	24.93	0.00	3473.96
RW - 1	06/01/09	3498.89	-	25.80	0.00	3473.09
RW - 1	06/10/09	3498.89	-	24.94	0.00	3473.95
RW - 1	06/12/09	3498.89	-	25.32	0.00	3473.57
RW - 1	06/18/09	3498.89	-	24.96	0.00	3473.93
RW - 1	06/24/09	3498.89	-	25.44	0.00	3473.45



TABLE 1

## 2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-18  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-0013

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	07/02/09	3498.89	-	25.58	0.00	3473.31
RW - 1	07/08/09	3498.89	-	24.91	0.00	3473.98
RW - 1	07/14/09	3498.89	-	25.61	0.00	3473.28
RW - 1	07/20/09	3498.89	-	25.63	0.00	3473.26
RW - 1	07/27/09	3498.89	-	25.64	0.00	3473.25
RW - 1	08/03/09	3498.89	-	25.60	0.00	3473.29
RW - 1	08/10/09	3498.89	-	25.75	0.00	3473.14
RW - 1	08/11/09	3498.89	-	25.75	0.00	3473.14
RW - 1	08/18/09	3498.89	-	25.79	0.00	3473.10
RW - 1	08/24/09	3498.89	-	25.85	0.00	3473.04
RW - 1	08/31/09	3498.89	-	25.99	0.00	3472.90
RW - 1	09/03/09	3498.89	-	25.89	0.00	3473.00
RW - 1	09/08/09	3498.89	-	26.16	0.00	3472.73
RW - 1	09/10/09	3498.89	-	26.11	0.00	3472.78
RW - 1	09/16/09	3498.89	-	25.98	0.00	3472.91
RW - 1	09/22/09	3498.89	-	26.18	0.00	3472.71
RW - 1	09/29/09	3498.89	-	25.64	0.00	3473.25
RW - 1	10/02/09	3498.89	-	26.25	0.00	3472.64
RW - 1	10/07/09	3498.89	-	26.04	0.00	3472.85
RW - 1	10/12/09	3498.89	-	24.90	0.00	3473.99
RW - 1	10/16/09	3498.89	-	26.11	0.00	3472.78
RW - 1	10/20/09	3498.89	-	24.91	0.00	3473.98
RW - 1	10/26/09	3498.89	-	24.91	0.00	3473.98
RW - 1	10/28/09	3498.89	-	26.03	0.00	3472.86
RW - 1	11/04/09	3498.89	-	26.22	0.00	3472.67
RW - 1	11/12/09	3498.89	-	26.06	0.00	3472.83
RW - 1	11/23/09	3498.89	-	26.05	0.00	3472.84
RW - 2	02/11/09	3498.99	-	24.84	0.00	3474.15
RW - 2	02/24/09	3498.99	-	24.90	0.00	3474.09
RW - 2	03/04/09	3498.99	-	24.91	0.00	3474.08
RW - 2	03/17/09	3498.99	-	24.92	0.00	3474.07
RW - 2	03/25/09	3498.99	-	24.79	0.00	3474.20
RW - 2	04/08/09	3498.99	-	24.89	0.00	3474.10
RW - 2	04/15/09	3498.99	-	24.91	0.00	3474.08
RW - 2	04/29/09	3498.99	-	24.92	0.00	3474.07
RW - 2	05/13/09	3498.99	-	24.90	0.00	3474.09
RW - 2	06/01/09	3498.99	-	25.26	0.00	3473.73
RW - 2	06/10/09	3498.99	-	24.91	0.00	3474.08
RW - 2	06/12/09	3498.99	-	25.21	0.00	3473.78
RW - 2	06/18/09	3498.99	-	24.93	0.00	3474.06
RW - 2	06/24/09	3498.99	-	25.34	0.00	3473.65
RW - 2	07/02/09	3498.99	-	25.47	0.00	3473.52
RW - 2	07/08/09	3498.99	-	24.83	0.00	3474.16
RW - 2	07/14/09	3498.99	-	25.58	0.00	3473.41
RW - 2	07/20/09	3498.99	-	25.59	0.00	3473.40

**TABLE 1****2009 - GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-0013**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
RW - 2	07/27/09	3498.99	-	25.60	0.00	3473.39
RW - 2	08/03/09	3498.99	-	26.65	0.00	3472.34
RW - 2	08/10/09	3498.99	-	25.72	0.00	3473.27
RW - 2	08/11/09	3498.99	-	25.72	0.00	3473.27
RW - 2	08/18/09	3498.99	-	25.70	0.00	3473.29
RW - 2	08/24/09	3498.99	-	25.74	0.00	3473.25
RW - 2	08/31/09	3498.99	-	25.86	0.00	3473.13
RW - 2	09/03/09	3498.99	-	25.80	0.00	3473.19
RW - 2	09/08/09	3498.99	-	25.93	0.00	3473.06
RW - 2	09/10/09	3498.99	-	21.00	0.00	3477.99
RW - 2	09/16/09	3498.99	-	25.92	0.00	3473.07
RW - 2	09/22/09	3498.99	-	26.12	0.00	3472.87
RW - 2	09/29/09	3498.99	-	25.62	0.00	3473.37
RW - 2	10/02/09	3498.99	-	26.02	0.00	3472.97
RW - 2	10/07/09	3498.99	-	25.98	0.00	3473.01
RW - 2	10/12/09	3498.99	-	24.83	0.00	3474.16
RW - 2	10/16/09	3498.99	-	21.01	0.00	3477.98
RW - 2	10/20/09	3498.99	-	24.82	0.00	3474.17
RW - 2	10/26/09	3498.99	-	24.82	0.00	3474.17
RW - 2	10/28/09	3498.99	-	25.94	0.00	3473.05
RW - 2	11/04/09	3498.99	-	26.12	0.00	3472.87
RW - 2	11/12/09	3498.99	-	26.36	0.00	3472.63
RW - 2	11/23/09	3498.99	-	25.99	0.00	3473.00

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

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NM  
NMOCD REFERENCE NUMBER AP-0013

*All concentrations are reported in mg/L*

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.010	0.750	0.750	0.620	
MW - 1	02/11/09	Not Sampled on Current Sample Schedule				
MW - 1	05/13/09	Not Sampled on Current Sample Schedule				
MW - 1	08/11/09	Not Sampled on Current Sample Schedule				
MW - 1	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/11/09	0.3810	<0.005	0.2370	0.0717	
MW - 2	05/13/09	0.0576	<0.005	0.2390	0.1250	
MW - 2	08/11/09	0.5770	<0.005	0.3310	0.1450	
MW - 2	11/23/09	0.9230	<0.005	0.3340	0.0941	
MW - 3	02/11/09	1.500	<0.010	0.3220	0.1500	
MW - 3	05/13/09	0.372	<0.010	0.0888	0.1370	
MW - 3	08/11/09	0.604	<0.010	0.0967	0.1250	
MW - 3	11/23/09	1.470	<0.010	0.2320	0.1110	
MW - 4	02/11/09	2.460	<0.050	0.6520	0.4140	
MW - 4	05/13/09	1.100	<0.020	0.2860	0.3520	
MW - 4	08/11/09	1.430	<0.020	0.2980	0.4310	
MW - 4	11/23/09	2.130	<0.020	0.3290	0.1890	
MW - 5	02/11/09	1.330	0.0260	0.6100	0.4130	
MW - 5	05/13/09	1.170	0.0497	0.5520	0.4500	
MW - 5	08/11/09	1.570	0.0475	0.6230	0.5090	
MW - 5	11/23/09	1.180	0.0091	0.4790	0.3200	
MW - 6	02/11/09	0.555	<0.010	0.4400	0.1250	
MW - 6	05/13/09	0.436	<0.010	0.3320	0.2330	
MW - 6	08/11/09	0.440	<0.010	0.2060	0.1670	
MW - 6	11/23/09	0.410	<0.010	0.0734	0.0557	
MW - 7	02/11/09	0.705	0.0065	0.0789	0.1220	
MW - 7	05/13/09	0.641	<0.005	0.1210	0.1740	
MW - 7	08/11/09	0.750	<0.005	0.0904	0.1480	
MW - 7	11/23/09	0.659	<0.005	0.0578	0.0881	
MW - 8	02/11/09	Not Sampled on Current Sample Schedule				
MW - 8	05/13/09	Not Sampled on Current Sample Schedule				
MW - 8	08/11/09	Not Sampled on Current Sample Schedule				
MW - 8	11/23/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NM  
NMOCD REFERENCE NUMBER AP-0013

*All concentrations are reported in mg/L*

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.010	0.750	0.750	0.620	
MW - 9	02/11/09	Not Sampled on Current Sample Schedule				
MW - 9	05/13/09	Not Sampled on Current Sample Schedule				
MW - 9	08/11/09	Not Sampled on Current Sample Schedule				
MW - 9	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/11/09	0.245	<0.005	0.0091	0.0370	
MW - 10	05/13/09	0.255	<0.005	0.0299	0.0735	
MW - 10	08/11/09	0.290	<0.005	0.0310	0.0590	
MW - 10	11/23/09	0.242	<0.005	<0.005	<0.005	
MW - 11	02/11/09	Not Sampled on Current Sample Schedule				
MW - 11	05/13/09	Not Sampled on Current Sample Schedule				
MW - 11	08/11/09	Not Sampled on Current Sample Schedule				
MW - 11	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/11/09	Not Sampled on Current Sample Schedule				
MW - 12	05/13/09	Not Sampled on Current Sample Schedule				
MW - 12	08/11/09	Not Sampled on Current Sample Schedule				
MW - 12	11/23/09	<0.001	<0.001	<0.001	0.0019	
MW - 14	02/11/09	Not Sampled on Current Sample Schedule				
MW - 14	05/13/09	Not Sampled on Current Sample Schedule				
MW - 14	08/11/09	Not Sampled on Current Sample Schedule				
MW - 14	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 15	02/11/09	Not Sampled on Current Sample Schedule				
MW - 15	05/13/09	Not Sampled on Current Sample Schedule				
MW - 15	08/11/09	Not Sampled on Current Sample Schedule				
MW - 15	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/11/09	Not Sampled on Current Sample Schedule				
MW - 16	05/13/09	Not Sampled on Current Sample Schedule				
MW - 16	08/11/09	Not Sampled on Current Sample Schedule				
MW - 16	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 17	02/11/09	2.390	<0.020	1.840	0.279	
MW - 17	05/13/09	2.280	<0.020	1.860	0.478	
MW - 17	08/11/09	2.620	<0.020	2.190	0.511	
MW - 17	11/23/09	2.170	<0.020	1.640	0.157	

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NM  
NMOCD REFERENCE NUMBER AP-0013

*All concentrations are reported in mg/L*

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.010	0.750	0.750	0.620	
MW - 18	02/11/09	3.680	<0.020	2.220	0.420	
MW - 18	05/13/09	3.450	<0.020	2.330	0.637	
MW - 18	08/11/09	4.160	<0.020	2.980	0.757	
MW - 18	11/23/09	2.620	<0.020	1.700	0.259	
MW - 20	02/11/09	Not Sampled on Current Sample Schedule				
MW - 20	05/13/09	Not Sampled on Current Sample Schedule				
MW - 20	08/11/09	Not Sampled on Current Sample Schedule				
MW - 20	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 21	02/11/09	Not Sampled on Current Sample Schedule				
MW - 21	05/13/09	Not Sampled on Current Sample Schedule				
MW - 21	08/11/09	Not Sampled on Current Sample Schedule				
MW - 21	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 22	02/11/09	Not Sampled on Current Sample Schedule				
MW - 22	05/13/09	Not Sampled on Current Sample Schedule				
MW - 22	08/11/09	Not Sampled on Current Sample Schedule				
MW - 22	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 23	02/11/09	1.150	<0.020	<0.020	0.0291	
MW - 23	05/13/09	1.000	<0.020	<0.020	0.2590	
MW - 23	08/11/09	0.828	<0.020	<0.020	<0.020	
MW - 23	11/23/09	0.488	<0.020	<0.020	<0.020	
MW - 24	02/11/09	1.460	<0.020	0.1700	0.0833	
MW - 24	05/13/09	0.733	<0.020	0.1320	<0.020	
MW - 24	08/11/09	1.050	<0.020	<0.020	<0.020	
MW - 24	11/23/09	1.120	<0.020	<0.020	<0.020	
MW - 25	02/11/09	0.442	0.0099	0.0196	0.0605	
MW - 25	05/13/09	0.532	<0.005	<0.005	<0.005	
MW - 25	08/11/09	0.600	<0.005	<0.005	<0.005	
MW - 25	11/23/09	0.485	<0.005	<0.005	<0.005	
MW - 26	02/11/09	0.0406	<0.001	0.0071	0.0032	
MW - 26	05/13/09	0.0172	<0.001	0.0166	<0.001	
MW - 26	08/11/09	0.0124	<0.001	0.0088	<0.001	
MW - 26	11/23/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-18  
LEA COUNTY, NM  
NMOCD REFERENCE NUMBER AP-0013

*All concentrations are reported in mg/L*

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.010	0.750	0.750	0.620	
MW - 27	02/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 27	05/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 27	08/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 27	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 28	02/11/09	Not Sampled on Current Sample Schedule				
MW - 28	05/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 28	08/11/09	Not Sampled on Current Sample Schedule				
MW - 28	11/23/09	<0.001	<0.001	<0.001	<0.001	
MW - 30	02/11/09	Not Sampled on Current Sample Schedule				
MW - 30	05/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 30	08/11/09	Not Sampled on Current Sample Schedule				
MW - 30	11/23/09	<0.001	<0.001	<0.001	<0.001	
RW - 1	02/11/09	1.320	0.2820	0.5390	0.2700	
RW - 1	05/13/09	1.370	0.3600	0.5970	0.3730	
RW - 1	08/11/09	1.870	0.4860	0.7490	0.4420	
RW - 1	11/23/09	1.270	0.3550	0.5160	0.2300	
RW - 2	02/11/09	1.110	<0.010	0.4950	0.3040	
RW - 2	05/13/09	1.040	<0.010	0.5140	0.3970	
RW - 2	08/11/09	1.270	<0.010	0.6210	0.4260	
RW - 2	11/23/09	0.901	<0.010	0.3580	0.1570	

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

TABLE 3

## POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-18

MONUMENT, NEW MEXICO

NMOC REFERENCE NUMBER AP-0013

All water concentrations are reported in mg/L

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[e]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	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	11/13/08	<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
	11/23/09	<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-2	11/13/08	<0.000184	<0.000184	0.0389	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0385	<0.000184	<0.000184	0.180	0.028
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0133	0.00667	<0.000184	0.0304	0.0217	0.00353
MW-3	11/13/08	<0.000184	0.000464	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00202	<0.000184	0.00606	0.00241	<0.000184	0.0137	0.00483	0.00215
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00996	<0.000184	0.0294	0.0108	<0.000184	0.0707	0.0332	0.00908
MW-4	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00752	<0.000184	<0.000184	<0.000184	0.0292	0.0307	<0.000184	0.164	0.0532	0.024
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00166	<0.000184	0.0107	0.00161	<0.000184	0.0229	0.00588	0.00198
MW-5	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00478	<0.000184	0.0309	0.00528	<0.000184	0.0417	0.0354	0.00485
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00201	<0.000184	0.0216	0.00176	<0.000184	0.0285	0.023	0.00268
MW-6	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00723	<0.000184	0.0282	0.00814	<0.000184	0.0434	0.0336	0.00709
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00759	<0.000184	0.00817	0.0116	<0.000184	0.0327	0.00836	0.00702
MW-7	11/13/08	<0.000184	<0.000184	0.0744	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0189	<0.000184	<0.000184	<0.000184	<0.000184	0.058	0.0735	<0.000184	0.267	<0.00922
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0136	<0.000184	0.0245	0.0184	<0.000184	0.102	0.0863	0.0100
MW-8	11/13/08	<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
	11/23/09	<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	11/13/08	<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
	11/23/09	<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-10	11/13/08	<0.000184	<0.000184	0.0108	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0096	<0.000184	0.00225	0.0107	<0.000184	0.0289	<0.000184	0.00764
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00664	<0.000184	0.00304	0.00726	<0.000184	0.0277	<0.000184	0.00522
MW-11	11/13/08	<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
	11/23/09	<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

TABLE 3

## POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-18

MONUMENT, NEW MEXICO

NMOC REFERENCE NUMBER AP-0013

All water concentrations are reported in mg/L

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[e]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101UU and 3-103.A.		—	—	—	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-12	11/13/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000345
	11/23/09	<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-14	11/13/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	11/23/09	<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-15	11/13/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	11/23/09	<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-16	11/13/08	<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
	11/23/09	<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-17	11/13/08	<0.000184	0.00022	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000306	<0.000184	0.00266	<0.000184	0.0322	0.0023	<0.000184	0.0261	0.0203	0.00292
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00162	<0.000184	0.0371	0.00138	<0.000184	0.0300	0.0229	0.00205
MW-18	11/13/08	<0.000183	0.000247	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00205	<0.000183	0.0422	0.00123	<0.000183	0.0326	0.021	0.00262
	11/23/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00163	<0.000184	0.0328	0.00166	<0.000184	0.0282	0.0192	0.00186
MW-20	11/13/08	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	0.000303
	11/23/09	<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-21	11/13/08	<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
	11/23/09	<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-22	11/13/08	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187
	11/23/09	<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-23	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000367	0.000404	<0.000184	0.00169	<0.000184	0.000831
	11/23/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-24	11/13/08	<0.000184	<0.000184	0.000461	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000601	<0.000184	0.00391	0.000453	<0.000184	0.00634	0.00168	0.000818
	11/23/09	<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



TABLE 3

## POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.


TNM 97-18

MONUMENT, NEW MEXICO

NMOC REFERENCE NUMBER AP-0013

All water concentrations are reported in mg/L.

SAMPLE LOCATION		EPA SW846-8270C, 3510																	
SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	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.	1	1	1	0.0001 mg/L	0.0007 mg/L	0.0002 mg/L	1	0.0002 mg/L	0.0002 mg/L	0.0003 mg/L	1	0.0004 mg/L	0.03 mg/L	1	1	0.03 mg/L	1	1	
	MW-25	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000236
		<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
	11/23/09	<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-26	<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	0.00135
	<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	0.00135
11/23/09	<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	0.00135
MW-27	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
11/23/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-28	<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
	<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
11/23/09	<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-30	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	<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
11/23/09	<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
RW-1	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459
	<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
11/23/09	<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
RW-2	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461
	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
11/23/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183



## Appendices

Appendix A  
Release Notification and Corrective Action  
(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

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 Texas-New Mexico Pipe Line Company	Contact Edwin H. Gripp
Address Box 60028, San Angelo, TX 76906	Telephone No. (915) 947-9000
Facility Name 16" main line	Facility Type pipe line

Surface Owner Millard Deak Estate	Mineral Owner	Lease No.
--------------------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	20S	37E					Dea

NATURE OF RELEASE

Type of Release sour crude	Volume of Release 83 barrels	Volume Recovered none
Source of Release 16" main line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 9-10-97 4:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Elizabeth	
By Whom? Mike Pearce	Date and Hour 9-11-97 1:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully:

Describe Cause of Problem and Remedial Action Taken:

Internal Corrosion  
Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken:

3600 sq. ft. pasture land.  
Contaminated soil will be excavated.

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

95° Cloudy

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Edwin H. Gripp</i>	OIL CONSERVATION DIVISION	
Printed Name: Edwin H. Gripp	Approved by District Supervisor:	Expiration Date:
Title: District Manager	Approval Date:	Attached <input type="checkbox"/>
Date: 9-11-97 Phone: 915-947-9001	Conditions of Approval:	

\* Attach Additional Sheets If Necessary

State Corp. Commission  
Pipe Line Division

Hazardous Waste Section  
NM Environmental Improvement Div.

TNM-97-18 JWC JAS