

AP -

7

DA #1

ANNUAL

MONITORING REPORT

YEAR(S):

2008



2008  
ANNUAL MONITORING REPORT

RECEIVED  
2009 MAR 18 PM 1 24

**DARR ANGELL #1**  
**LEA COUNTY, NEW MEXICO**  
**NW ¼ SE ¼ SECTION 11, TOWNSHIP 15 SOUTH, RANGE 37 EAST**  
**PLAINS EMS #: DARR ANGELL 1**  
**NMOCD REFERENCE NUMBER AP-007**

Prepared For:

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



Prepared By:

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

**February 2009**

Ronald K. Rounsaville  
Project Manager

Brittan K. Byerly, P.G.  
President

## TABLE OF CONTENTS

INTRODUCTION .....	1
SITE DESCRIPTION AND BACKGROUND INFORMATION.....	1
FIELD ACTIVITIES .....	2
LABORATORY RESULTS .....	3
SUMMARY .....	11
ANTICIPATED ACTIONS .....	12
LIMITATIONS .....	12
DISTRIBUTION.....	14

### FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 27, 2008

2B – Inferred Groundwater Gradient Map – June 3, 2008

2C – Inferred Groundwater Gradient Map – September 4, 2008

2D – Inferred Groundwater Gradient Map – November 24, 2008

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 27, 2008

3B – Groundwater Concentration and Inferred PSH Extent Map – June 3, 2008

3C – Groundwater Concentration and Inferred PSH Extent Map – September 4, 2008

3D – Groundwater Concentrations and Inferred PSH Extent Map – November 24, 2008

### TABLES

Table 1 – 2008 Groundwater Elevation Data

Table 2 – 2008 Concentrations of BTEX and TPH in Groundwater

Table 2 – 2008 Concentrations of PAH in Groundwater

### APPENDICES

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

### ENCLOSED ON DATA DISK

2008 Annual Monitoring Report

2008 Tables 1, 2 and 3 – Groundwater Elevation, BTEX, TPH and PAH Concentration Data

2008 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

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 Darr Angell #1 Pipeline Release Site (the site), which was formerly 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 text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2008 only. However, historic data tables as well as 2008 laboratory analytical reports are enclosed electronically. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2008 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 legal description of the site is NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section 11, Township 15 South, Range 37 East. The release was discovered by EOTT employees and reported on May 1, 1997. According to the release report, an estimated 25 barrels of crude oil was released and 15 barrels were recovered during initial response actions. The release occurred from an 8-inch EOTT pipeline and was attributed to internal pipeline corrosion. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A.

Currently, there are twenty-one groundwater monitor wells (MW-1 through MW-21) and eleven product recovery wells (RW-1 through RW-11) on-site. An automated recovery system is currently operating on site. Monitor wells MW-1, MW-5, MW-9 and recovery wells RW-2 through RW-6 and RW-9 through RW-11 use a total fluid skimmer pump for PSH recovery. Currently, recovery wells RW-7 and RW-8 are utilizing total fluid pumps for PSH recovery. Monitor and recovery wells exhibiting PSH, but not part of the automated recovery system, were recovered manually. Recovered product from the manually recovered wells was placed in one of the two storage frac tanks located on-site. Recovered product was periodically transported to the 34 Junction South Station facility for reinjection to the Plains Pipeline system. Recovered groundwater contained in the storage tanks was transported to a licensed disposal facility.

## FIELD ACTIVITIES

### Product Recovery Efforts

A measurable thickness of PSH was recorded on twenty-one monitor wells and recovery wells during the reporting period. The average thickness of PSH in recovery wells containing PSH during 2008 was 2.07 feet. A maximum PSH thickness of 9.33 feet was reported in recovery well RW-5 on January 3, 2008. Approximately 584 gallons (14 barrels) of PSH were recovered from the site during the 2008 reporting period. A total of approximately 37,268 gallons (888 barrels) of PSH has been recovered since the start of product recovery. Measurable thicknesses of PSH are recorded in Table 1 and Figures 3A through 3D.

### Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004 and amended in NMOCD correspondences dated June 20, 2005 and April 11, 2006.

NMOCD Approved Sampling Schedule					
MW-1	Quarterly	MW-12	Quarterly	RW-1	Quarterly
MW-2	Quarterly	MW-13	Quarterly	RW-2	Quarterly
MW-3	Quarterly	MW-14	Quarterly	RW-3	Quarterly
MW-4	Annually	MW-15	Annually	RW-4	Quarterly
MW-5	Quarterly	MW-16	Annually	RW-5	Quarterly
MW-6	Quarterly	MW-17	Quarterly	RW-6	Quarterly
MW-7	Semi-Annually	MW-18	Annually	RW-7	Quarterly
MW-8	Quarterly	MW-19	Quarterly	RW-8	Quarterly
MW-9	Quarterly	MW-20	Annually	RW-9	Quarterly
MW-10	Quarterly	MW-21	Quarterly	RW10	Quarterly
MW-11	Annually			RW-11	Quarterly

The site monitor wells were gauged and sampled on February 27, June 3, September 4, and November 24, 2008. During each sampling event, sampled monitor wells were purged a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric Grundfos pump. Groundwater was allowed to recharge and samples were 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 the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2008 is provided as Table 1. Historic groundwater elevation data beginning at project inception is enclosed on the attached data disk.

The most recent Inferred Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0016 feet/foot to the southeast as measured between groundwater monitor wells MW-2 and MW-7. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevation has ranged between 3,721.65 and 3,729.25 feet

above mean sea level, in recovery well RW-10 on November 25, 2008 and monitor well MW-4 on February 27, 2008, respectively.

## LABORATORY RESULTS

Monitor wells MW-1 through MW-3, MW-5, MW-6, MW-8 through MW-10, MW-13, MW-14 and all recovery wells (RW-1 through RW-11) contained measurable PSH throughout the reporting period and were not sampled during the first three quarters of 2008.

Groundwater samples obtained during the quarterly sampling events of 2008 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2008 are summarized in Table 2 and the PAH constituent concentrations for 2008 are summarized in Table 3. Copies of the laboratory reports generated for 2008 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

**Monitor well MW-1** is monitored on a quarterly schedule. Monitor well MW-1 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 6.64 feet, 6.50 feet and 6.09 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 5.240 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.880 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.675 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.170 mg/L. Analytical results indicated a total TPH result of 35.7 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.122 mg/L), 1-methylnaphthalene (0.173 mg/L) and 2-methylnaphthalene (0.250 mg/L). Additional PAH constituents detected above MDLs include acenaphthylene (0.00485 mg/L), fluorene (0.0167 mg/L), phenanthrene (0.0205 mg/L) and dibenzofuran (0.0106 mg/L), which are below WQCC standards.

**Monitor well MW-2** is monitored on a quarterly schedule. Monitor well MW-2 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.15 feet, 0.29 feet and 0.10 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.630 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.926 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.330 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of

the reporting period with a concentration of 1.06 mg/L. Analytical results indicated a total TPH result of 8.58 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0234 mg/L) and 2-methylnaphthalene (0.0302 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0285 mg/L), fluorene (0.00255 mg/L), phenanthrene (0.00282 mg/L) and dibenzofuran (0.00174 mg/L), which are below WQCC standards.

**Monitor well MW-3** is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.32 feet and 0.25 feet were reported during the 1<sup>st</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Monitor well MW-3 was not gauged during the 2<sup>nd</sup> quarter sampling event due to an absence of groundwater in the monitor well. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0483 mg/L. Toluene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0826 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.642 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.51 mg/L. Analytical results indicated a total TPH result of 16.91 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0601 mg/L), 1-methylnaphthalene (0.0455 mg/L) and 2-methylnaphthalene (0.0625 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.00377 mg/L), phenanthrene (0.0037 mg/L) and dibenzofuran (0.00292 mg/L), which are below WQCC standards.

**Monitor well MW-4** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standards of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 for xylene during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last thirty-three consecutive quarters. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-5** is monitored on a quarterly schedule. Monitor well MW-5 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 8.22 feet, 8.35 feet and 8.46 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.620 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.800 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.556 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.880 mg/L. Analytical results indicated a total TPH result of 82.1 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.136 mg/L), 1-methylnaphthalene (0.261 mg/L) and 2-methylnaphthalene (0.372 mg/L). Additional PAH

constituents detected above MDLs include acenaphthylene (0.00806 mg/L), anthracene (0.0424 mg/L), fluorene (0.0326 mg/L), phenanthrene (0.0427 mg/L) and dibenzofuran (0.0201 mg/L), which are below WQCC standards.

**Monitor well MW-6** is monitored on a quarterly schedule. Monitor well MW-6 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.06 feet, 0.16 feet and 0.06 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.800 mg/L. Toluene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0951 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.253 mg/L. Xylene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.443 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for 1-methylnaphthalene (0.0339 mg/L) and 2-methylnaphthalene (0.015 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0217 mg/L), fluorene (0.00321 mg/L), phenanthrene (0.00322 mg/L) and dibenzofuran (0.00251 mg/L), which are below WQCC standards.

**Monitor well MW-7** is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2<sup>nd</sup> and 4<sup>th</sup> quarter sampling event. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-8** is monitored on a quarterly schedule. Monitor well MW-8 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.63 feet, 0.86 feet and 0.40 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.770 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.960 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.948 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.190 mg/L. Analytical results indicated a total TPH result of 65.5 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.529 mg/L), 1-methylnaphthalene (1.26 mg/L) and 2-methylnaphthalene (1.86 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.135 mg/L), phenanthrene (0.188 mg/L) and dibenzofuran (0.0861 mg/L), which are below WQCC standards.

**Monitor well MW-9** is monitored on a quarterly schedule. Monitor well MW-9 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 4.80 feet, 6.26 feet and 6.69 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard

during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.460 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.890 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.546 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.630 mg/L. Analytical results indicated a total TPH result of 44.7 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for chrysene (0.00172 mg/L), naphthalene (0.0641 mg/L), 1-methylnaphthalene (0.0851 mg/L) and 2-methylnaphthalene (0.112 mg/L). Additional PAH constituents detected above MDLs include acenaphthylene (0.00163 mg/L), fluorene (0.00846 mg/L), phenanthrene (0.0104 mg/L) and dibenzofuran (0.00578 mg/L), which are below WQCC standards.

**Monitor well MW-10** is monitored on a quarterly schedule. Monitor well MW-10 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.08 feet, 1.42 feet and 0.80 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.180 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.270 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.040 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.860 mg/L. Analytical results indicated a total TPH result of 44.6 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.212 mg/L), 1-methylnaphthalene (0.382 mg/L) and 2-methylnaphthalene (0.537 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.0382 mg/L), phenanthrene (0.0512 mg/L) and dibenzofuran (0.0286 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 the MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. 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 a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.494 mg/L during the 2<sup>nd</sup> quarter to 0.916 mg/L during the 3<sup>rd</sup> quarter of 2008. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and 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 (0.000648 mg/L), 1-methylnaphthalene (0.000372 mg/L), dibenzofuran (0.00145 mg/L) and fluorine (0.000696 mg/L), which are below WQCC standards.

**Monitor well MW-13** is monitored on a quarterly schedule. Monitor well MW-13 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in

the well. PSH thicknesses of 0.77 feet, 2.23 feet and 0.70 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. PAH analysis was not conducted due to insufficient water volume in the well.

**Monitor well MW-14** is monitored on a quarterly schedule. Monitor well MW-14 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in the well. Monitor well MW-14 was not gauged during the 1<sup>st</sup> quarter sampling event due to an absence of groundwater in the monitor well. PSH thicknesses of 3.52 feet and 3.31 feet were reported during the 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. PAH analysis was not conducted due to insufficient water volume in the well.

**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. 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. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for benzo[a]anthracene (0.000959 mg/L), benzo[a]pyrene (0.000847 mg/L), benzo[a]fluoranthene (0.000814 mg/L), benzo[k]fluoranthene (0.000879 mg/L) and Indeno[1,2,3-cd]pyrene (0.001 mg/L). Additional PAH constituents detected above MDLs include anthracene (0.000888 mg/L), benzo[g,h,i]perylene (0.00102 mg/L), chrysene (0.000958 mg/L), fluorene (0.000417 mg/L), fluoranthene (0.0013 mg/L), phenanthrene (0.00076 mg/L), pyrene (0.0012 mg/L), 1-methylnaphthalene (0.000216 mg/L) and 2-methylnaphthalene (0.000313 mg/L), which are below WQCC standards.

**Monitor well MW-17** 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. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-18** 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. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for fluoranthene (0.000216 mg/L) and fluorine (0.000245 mg/L), which are below WQCC standards.

**Monitor well MW-19** is currently 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. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-20** 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. 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 currently 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. 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 monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in the well. Recovery well RW-1 was not gauged during the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarter sampling events due to an absence of groundwater in the monitor well. PSH thickness of 1.57 feet was reported during the 3<sup>rd</sup> quarter of 2008. PAH analysis was not conducted due to insufficient water volume in the well.

**Recovery well RW-2** is monitored on a quarterly schedule. Recovery well RW-2 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in the well. PSH thicknesses of 6.95 feet, 6.52 feet and 6.22 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. PAH analysis was not conducted due to insufficient water volume in the well.

**Recovery well RW-3** is monitored on a quarterly schedule. Recovery well RW-3 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.52 feet, 1.65 feet and 0.35 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 5.860 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 4.120 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.140 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.720 mg/L. Analytical results indicated a total TPH result of 195.1 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for chrysene (0.0218 mg/L), naphthalene (0.400 mg/L), 1-methylnaphthalene (0.888 mg/L) and 2-methylnaphthalene (1.31 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.0966 mg/L), phenanthrene (0.129 mg/L) and dibenzofuran (0.0633 mg/L), which are below WQCC standards.

**Recovery well RW-4** is monitored on a quarterly schedule. Recovery well RW-4 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in

the well. Recovery well RW-4 was not gauged during the 2<sup>nd</sup> quarter sampling event due to a malfunctioning interface probe. PSH thicknesses of 6.87 feet and 6.88 feet were reported during the 1<sup>st</sup> and 3<sup>rd</sup> quarters of 2008. PAH analysis was not conducted due to insufficient water volume in the well.

**Recovery well RW-5** is monitored on a quarterly schedule. Recovery well RW-5 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 6.80 feet, 6.70 feet and 6.33 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.430 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.090 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.722 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.270 mg/L. Analytical results indicated a total TPH result of 58.8 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.132 mg/L), 1-methylnaphthalene (0.170 mg/L) and 2-methylnaphthalene (0.254 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.0218 mg/L), phenanthrene (0.0273 mg/L) and dibenzofuran (0.013 mg/L), which are below WQCC standards.

**Recovery well RW-6** is monitored on a quarterly schedule. Recovery well RW-6 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 6.02 feet, 5.95 feet and 6.84 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.690 mg/L. Toluene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.251 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.233 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.929 mg/L. Analytical results indicated a total TPH result of 1036.51 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for chrysene (0.0286 mg/L), naphthalene (0.564 mg/L), 1-methylnaphthalene (1.33 mg/L) and 2-methylnaphthalene (1.93 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.126 mg/L), phenanthrene (0.167 mg/L) and dibenzofuran (0.0751 mg/L), which are below WQCC standards.

**Recovery well RW-7** is monitored on a quarterly schedule. Recovery well RW-7 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 6.74 feet and 6.87 feet were reported during the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2008, respectively. Recovery well RW-7 was not gauged during the 3<sup>rd</sup> quarter sampling event. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 5.340 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 4.360 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.070 mg/L. Xylene concentrations

were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.640 mg/L. Analytical results indicated a total TPH result of 541.2 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for chrysene (0.0254 mg/L), naphthalene (0.477 mg/L), 1-methylnaphthalene (1.07 mg/L) and 2-methylnaphthalene (1.55 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.106 mg/L), phenanthrene (0.143 mg/L) and dibenzofuran (0.0709 mg/L), which are below WQCC standards.

**Recovery well RW-8** is monitored on a quarterly schedule. Recovery well RW-8 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 7.26 feet and 7.30 feet were reported during the 1<sup>st</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Recovery well RW-7 was not gauged during the 3<sup>rd</sup> quarter sampling event due to insufficient water volume in the well. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 6.370 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.420 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.150 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 10.50 mg/L. Analytical results indicated a total TPH result of 143.9 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (1.17 mg/L), 1-methylnaphthalene (2.87 mg/L) and 2-methylnaphthalene (4.15 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.342 mg/L), phenanthrene (0.436 mg/L) and dibenzofuran (0.214 mg/L), which are below WQCC standards.

**Recovery well RW-9** is monitored on a quarterly schedule. Recovery well RW-9 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 4.58 feet, 0.85 feet and 6.65 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 4.400 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.260 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 3.470 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 10.80 mg/L. Analytical results indicated a total TPH result of 720.0 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.294 mg/L), 1-methylnaphthalene (0.587 mg/L) and 2-methylnaphthalene (0.841 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.064 mg/L), phenanthrene (0.0838 mg/L) and dibenzofuran (0.0448 mg/L), which are below WQCC standards.

**Recovery well RW-10** is monitored on a quarterly schedule. Recovery well RW-10 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4<sup>th</sup> quarter due to insufficient water volume in the well. PSH thicknesses of 7.87 feet, 7.51 feet and 7.77 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>

and 3<sup>rd</sup> quarters of 2008, respectively. PAH analysis was not conducted due to insufficient water volume in the well.

**Recovery well RW-11** is monitored on a quarterly schedule. Recovery well RW-11 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 8.10 feet, 8.37 feet and 8.52 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standard during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.720 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 1.540 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.640 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 2.040 mg/L. Analytical results indicated a total TPH result of 55.2 mg/L. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for chrysene (0.0105 mg/L), naphthalene (0.145 mg/L), 1-methylnaphthalene (0.322 mg/L) and 2-methylnaphthalene (0.441 mg/L). Additional PAH constituents detected above MDLs include acenaphthene (0.0062 mg/L), fluorene (0.0426 mg/L), phenanthrene (0.0671 mg/L) and dibenzofuran (0.0269 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 2008 annual monitoring period. Twenty-one groundwater monitor wells (MW-1 through MW-21) and eleven product recovery wells (RW-1 through RW-11) are currently on-site. An automated recovery system operated on-site during the 2008 reporting period. An automated recovery system is currently operating on site. Monitor wells MW-1, MW-5, MW-9 and recovery wells RW-2 through RW-6 and RW-9 through RW-11 utilize skimmer pumps for PSH recovery. Currently, recovery wells RW-7 and RW-8 are utilizing total fluid pumps for PSH recovery. Monitor and recovery wells exhibiting PSH, but not a part of the automated recovery system, were recovered manually. The most recent Inferred Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0016 feet/foot to the southeast.

Monitor wells MW-1 through MW-3, MW-5, MW-6, MW-8 through MW-10, MW-13, MW-14 and all recovery wells (RW-1 through RW-11) contained measurable PSH and were not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of the reporting period. Monitor wells MW-1 through MW-3, MW-5, MW-6, MW-8 through MW-10 and recovery wells RW-3, RW-5 through RW-9 and RW-11 contained measurable PSH and were sampled during the 4<sup>th</sup> quarter of the reporting period as per the NMOCD directive. Monitor wells MW-13 and MW-14 and recovery wells RW-1, RW-2, RW-4 and RW-10 were not sampled during the 4<sup>th</sup> quarter due to the lack of sufficient water volume in the wells.

Twenty-one monitor or recovery wells contained measurable thicknesses of PSH during the reporting period. Approximately 17,312 gallons (412 barrels) of PSH was recovered from the site during the 2008 reporting period. A total of approximately 53,996 gallons (1,286 barrels) of PSH has been recovered since the start of product recovery.

The average thickness of PSH in recovery wells containing PSH during 2008 was 2.07 feet. In comparison, the average thickness of PSH in recovery wells containing PSH during 2007 was 4.2 feet. A maximum PSH thickness of 9.33 feet reported in recovery well RW-5 on January 3, 2008. Data indicates that the operation of the automated recovery system at the Darr Angell #1 Release Site has been successful in reducing observed PSH thicknesses in on-site monitor and recovery wells.

Review of laboratory analytical results of the groundwater samples obtained during the 2008 monitoring period indicate the BTEX constituent concentrations are below applicable NMOCD standards in ten of the thirty-two monitor and recovery wells currently on-site. The remaining twenty-two monitor / recovery wells contained measurable thicknesses of PSH and were not sampled or exhibited analytical results above the NMOCD regulatory standard during at least one quarterly monitoring event of 2008. Dissolved phase impact appears to be limited to monitor well MW-12 and to those monitor and recovery wells which exhibit PSH. Groundwater samples from monitor wells MW-1 through MW-3, MW-5, MW-8 through MW-10 and recovery wells RW-3, RW-5 through RW-9 and RW-11 exhibited elevated TPH concentrations for GRO and DRO. Analytical results on groundwater samples collected indicate PAH distributions mirrored those of BTEX distributions over the site.

### **ANTICIPATED ACTIONS**

Groundwater monitoring, weekly product recovery, automated system maintenance and optimization will continue through 2009. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2010.

Based on a review of the historical site data, only a limited amount of soil remediation has been conducted. A leak zone investigation would provide additional information for planning additional source (soil) area remediation. Plains will submit a work plan for a leak zone investigation to the NMOCD in 2009.

### **LIMITATIONS**

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

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts

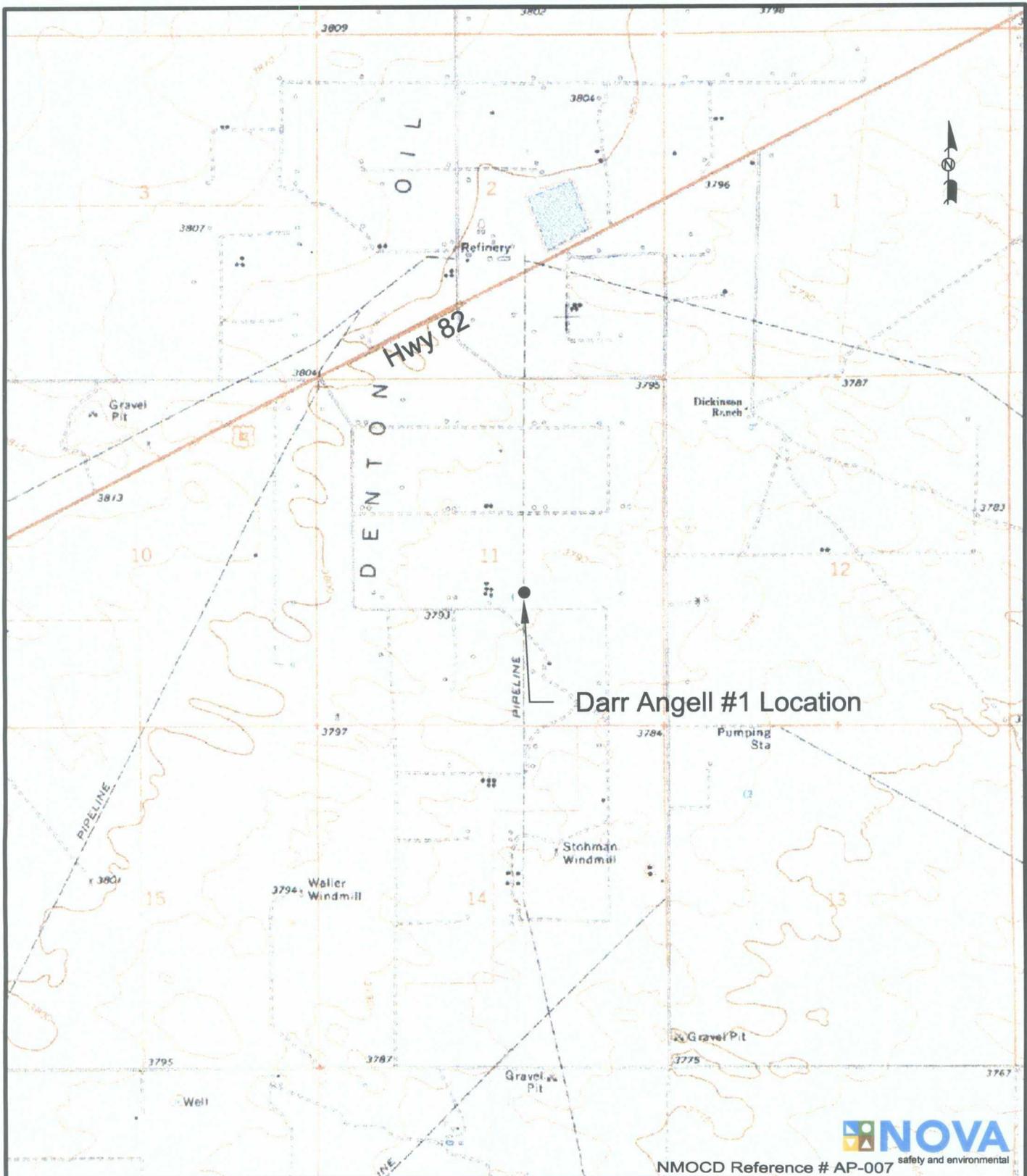
and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

## **DISTRIBUTION**

- Copy 1      Ed Hansen  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505
- Copy 2:      Larry Johnson  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
1625 French Drive  
Hobbs, NM 88240
- Copy 3:      Jason Henry  
Plains Marketing, L.P.  
2530 State Highway 214  
Denver City, TX 79323  
jhenry@paalp.com
- Copy 4:      Jeff Dann  
Plains Marketing, L.P.  
333 Clay Street  
Suite 1600  
Houston, TX 77002  
jpdann@paalp.com
- Copy 5:      NOVA Safety and Environmental  
2057 Commerce Street  
Midland, TX 79703  
rrounsaville@novatraining.cc

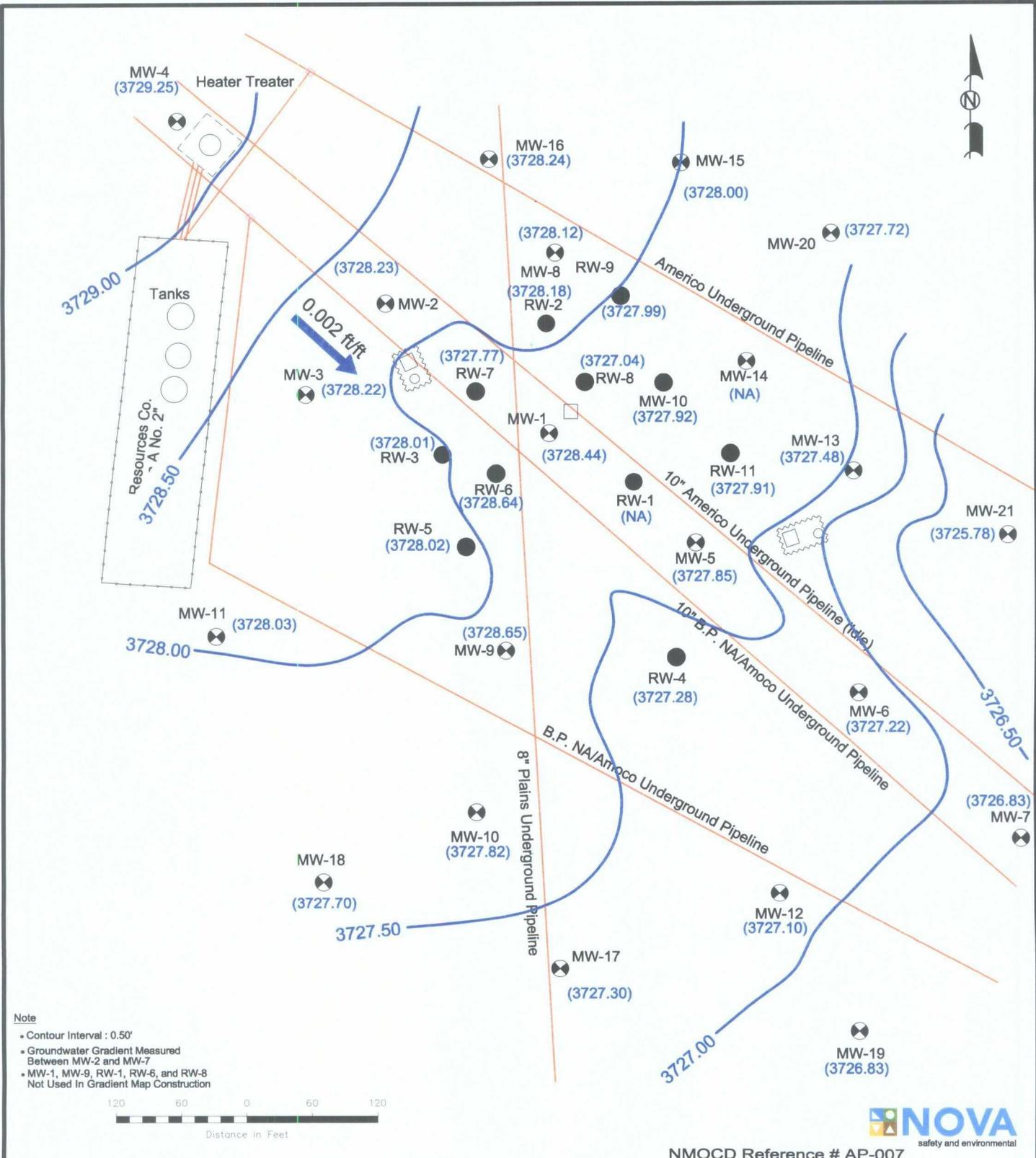
**FIGURES**



NMOCD Reference # AP-007



<p>Location</p> <p>NW1/4 SE1/4 Sec 11 T15S R37E</p> <p>Lat. 33° 01' 36.0"N Long 103° 10' 00.7"W</p>	<p>Figure 1 Site Location Map</p> <p>Plains Marketing, L.P.</p> <p>Darr Angell #1 Lea County, NM</p>	<p>NOVA Safety and Environmental</p> <table border="1"> <tr> <td>Scale: 1"=2000'</td> <td>Prep By: DPM</td> <td>Checked By: MRE</td> </tr> <tr> <td colspan="3">February 15, 2005</td> </tr> </table>	Scale: 1"=2000'	Prep By: DPM	Checked By: MRE	February 15, 2005		
Scale: 1"=2000'	Prep By: DPM	Checked By: MRE						
February 15, 2005								



**Note**

- Contour Interval : 0.50'
- Groundwater Gradient Measured Between MW-2 and MW-7
- MW-1, MW-9, RW-1, RW-6, and RW-8 Not Used In Gradient Map Construction

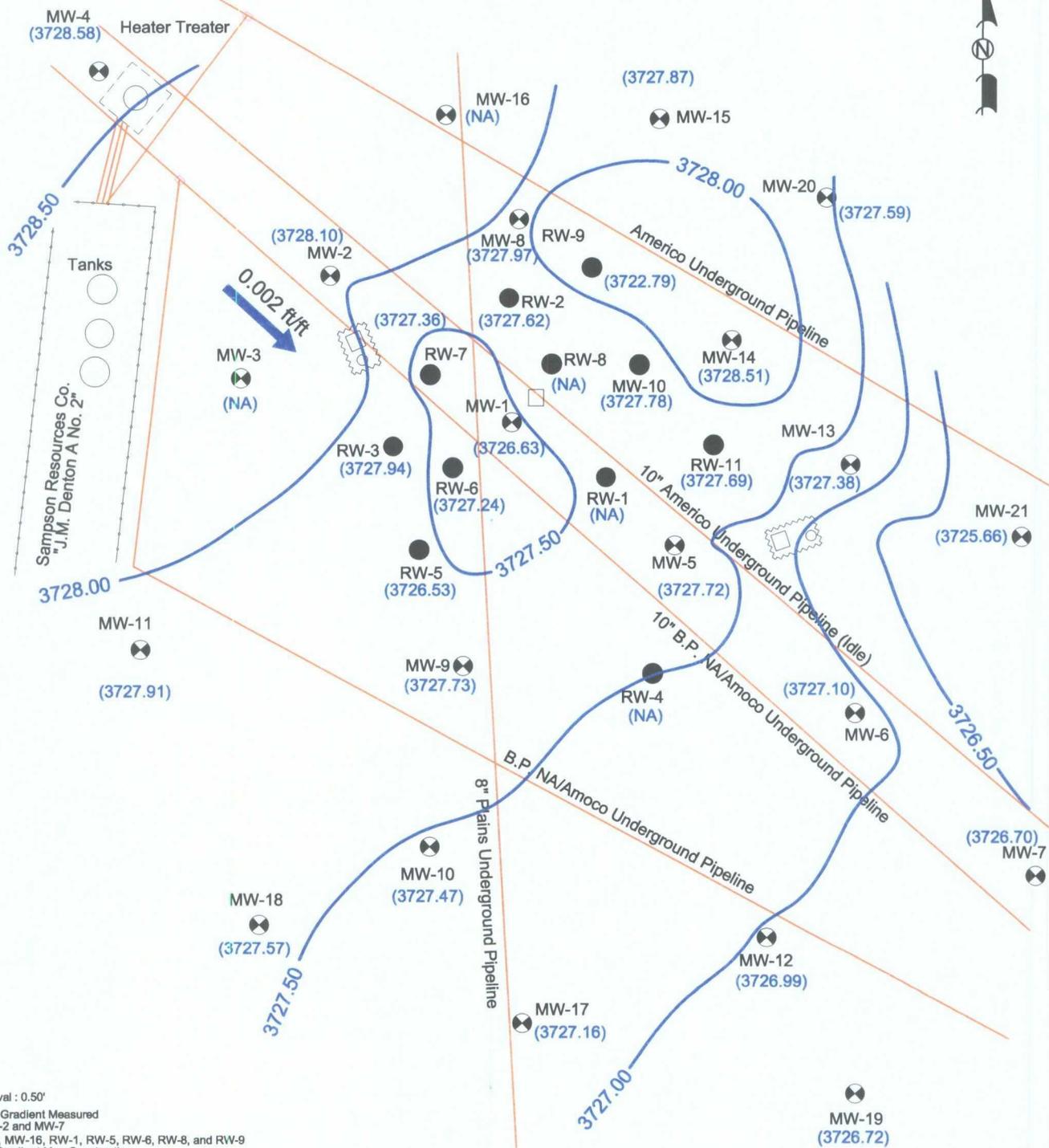


NMOCD Reference # AP-007

LEGEND:	
	Monitor Well Location
	Recovery Well Location
	Product/Recovery Line
	Pipeline
	Groundwater Elevation Contour Line
	Groundwater Gradient and Magnitude
	(3728.80) Groundwater Elevation (feet)
	Berm Containment Area
	Shed
	Poly Tank
	No Groundwater Encountered

Figure 2A  
 Inferred Groundwater Gradient Map (02/27/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

NOVA Safety and Environmental	
NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	CAD By: DGC
October 21, 2008	Checked By: RKR



**Note**

- Contour Interval : 0.50'
- Groundwater Gradient Measured Between MW-2 and MW-7
- MW-1, MW-3, MW-16, RW-1, RW-5, RW-6, RW-8, and RW-9 Not Used In Gradient Map Construction

120 60 0 60 120  
Distance in Feet



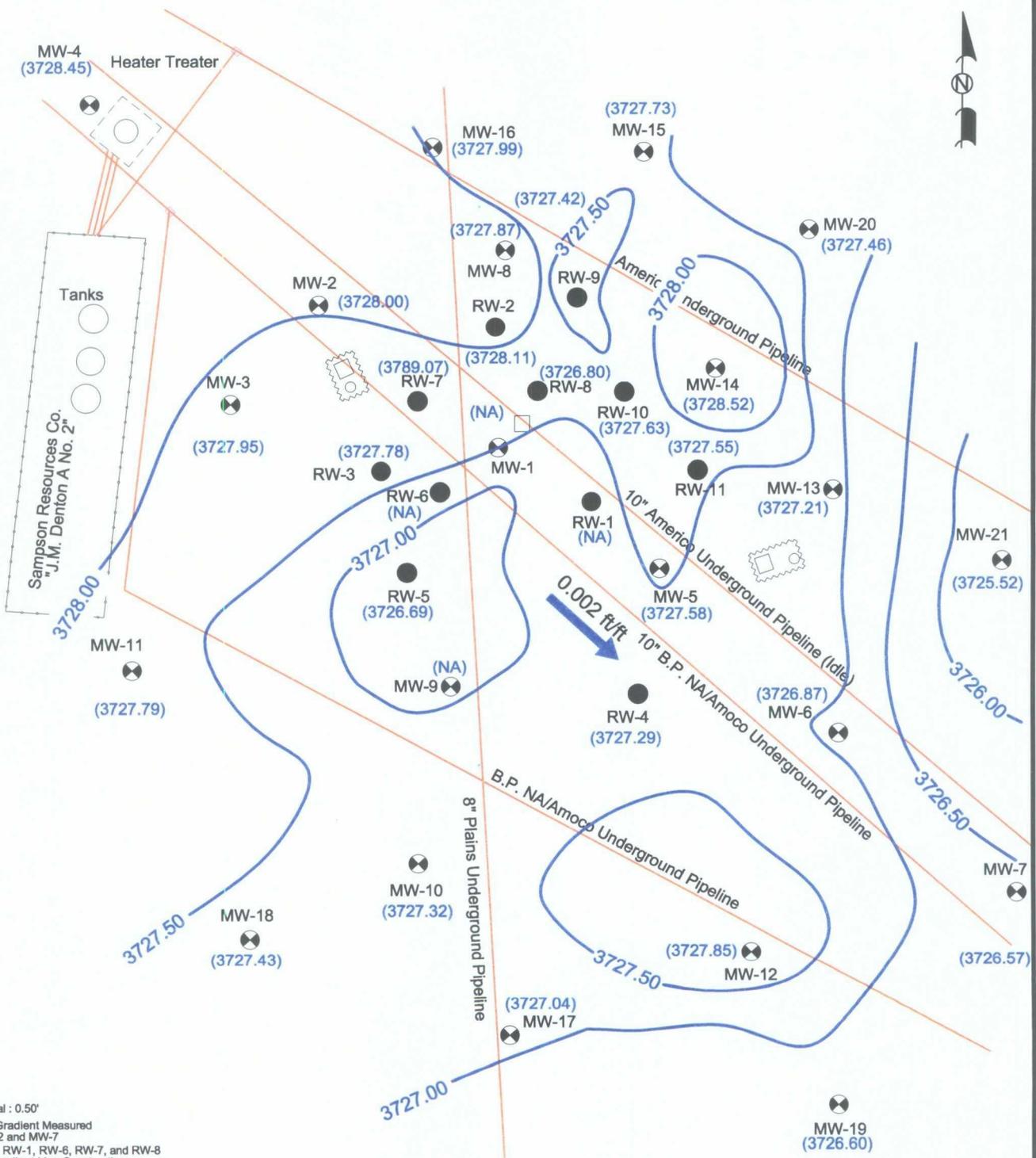
NMOCD Reference # AP-007

**LEGEND:**

	Monitor Well Location		Groundwater Elevation (feet)
	Recovery Well Location		Berm Containment Area
	Product/Recovery Line		Shed
	Pipeline		Poly Tank
	Groundwater Elevation Contour Line		No Groundwater Encountered
	Groundwater Gradient and Magnitude		

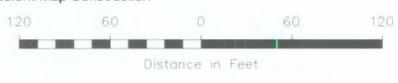
**Figure 2B**  
**Inferred Groundwater Gradient Map (06/03/08)**  
**Plains Marketing, L.P.**  
**Darr Angell #1**  
**Lea County, NM**

<b>NOVA Safety and Environmental</b>		
NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W	
Scale: 1"=120'	CAD By: DGC	Checked By: RKR
October 21, 2008		



Note

- Contour Interval : 0.50'
- Groundwater Gradient Measured Between MW-2 and MW-7
- MW-1, MW-9, RW-1, RW-6, RW-7, and RW-8 Not Used In Gradient Map Construction

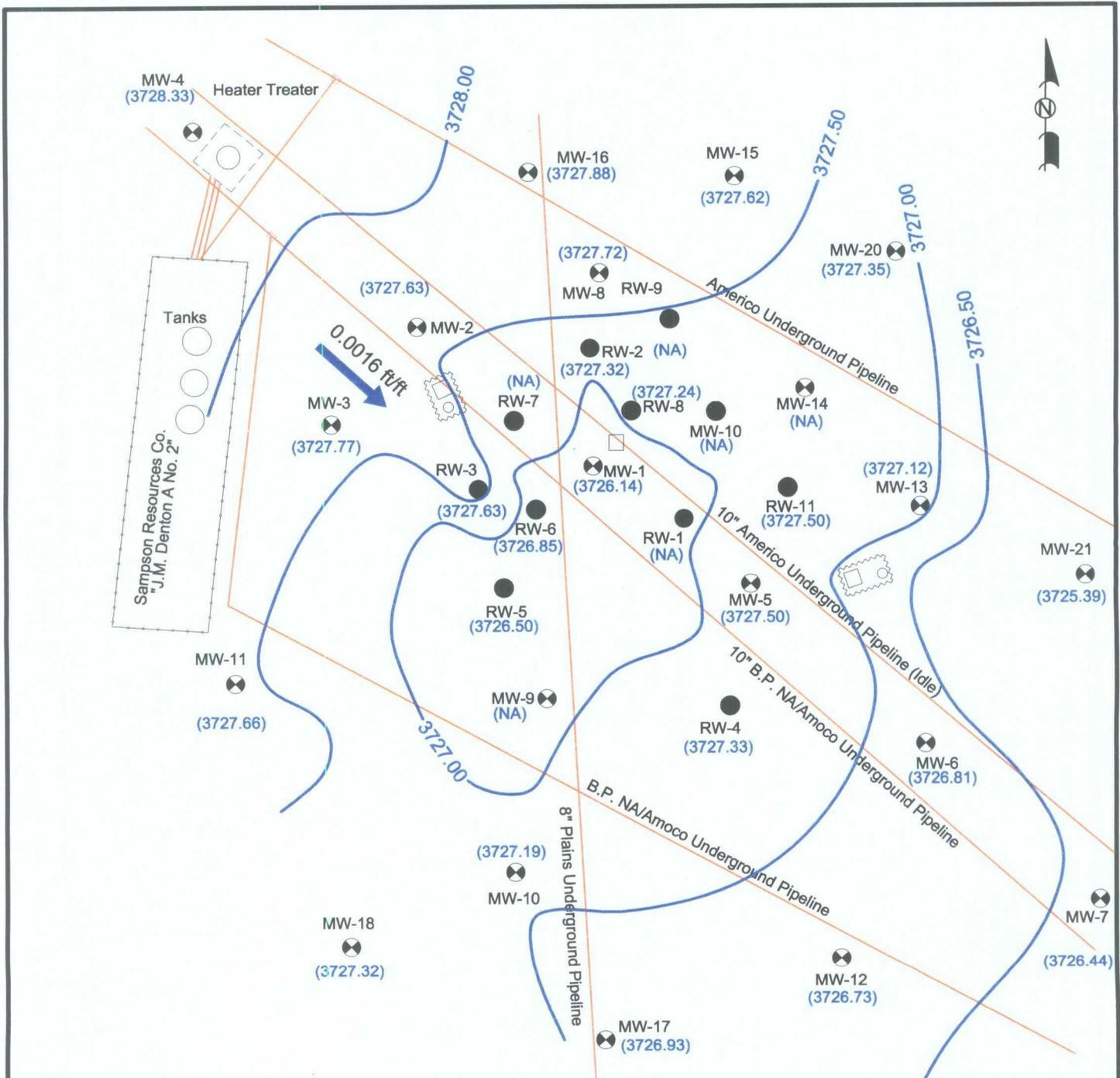


NMOCD Reference # AP-007

LEGEND:	
	Monitor Well Location
	Recovery Well Location
	Product/Recovery Line
	Pipeline
	Groundwater Elevation Contour Line
	Groundwater Gradient and Magnitude
	(3728.80) Groundwater Elevation (feet)
	Berm Containment Area
	Shed
	Poly Tank
	N/W No Groundwater Encountered

Figure 2C  
 Inferred Groundwater Gradient Map (09/04/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

NOVA Safety and Environmental	
NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	CAD By: DGC Checked By: RKR
October 21, 2008	



**Note**

- Contour Interval : 0.50'
- Groundwater Gradient Measured Between MW-2 and MW-7
- MW-9, MW-14, RW-1, RW-7, RW-9, and MW-10 Not Used In Gradient Map Construction

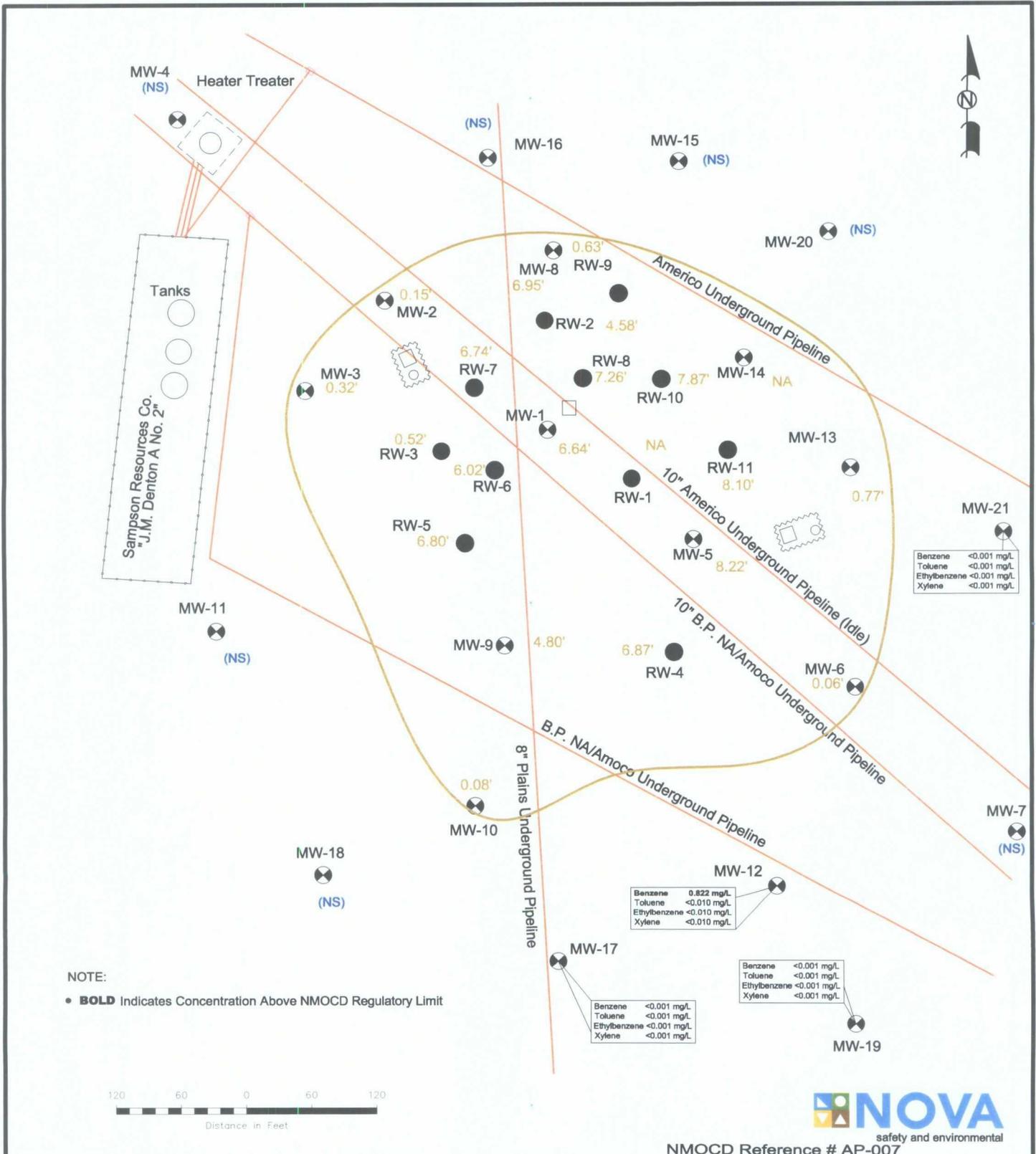


NMOCD Reference # AP-007

LEGEND:	
	Monitor Well Location
	Recovery Well Location
	Product/Recovery Line
	Pipeline
	Groundwater Elevation Contour Line
	Groundwater Gradient and Magnitude
	Groundwater Elevation (feet)
	Bermed Containment Area
	Shed
	Poly Tank
	No Groundwater Encountered

Figure 2D  
 Inferred Groundwater Gradient Map (11/24/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

NOVA Safety and Environmental		
NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W	
Scale: 1"=120'	CAD By: DGC	Checked By: RKR
December 15, 2008		

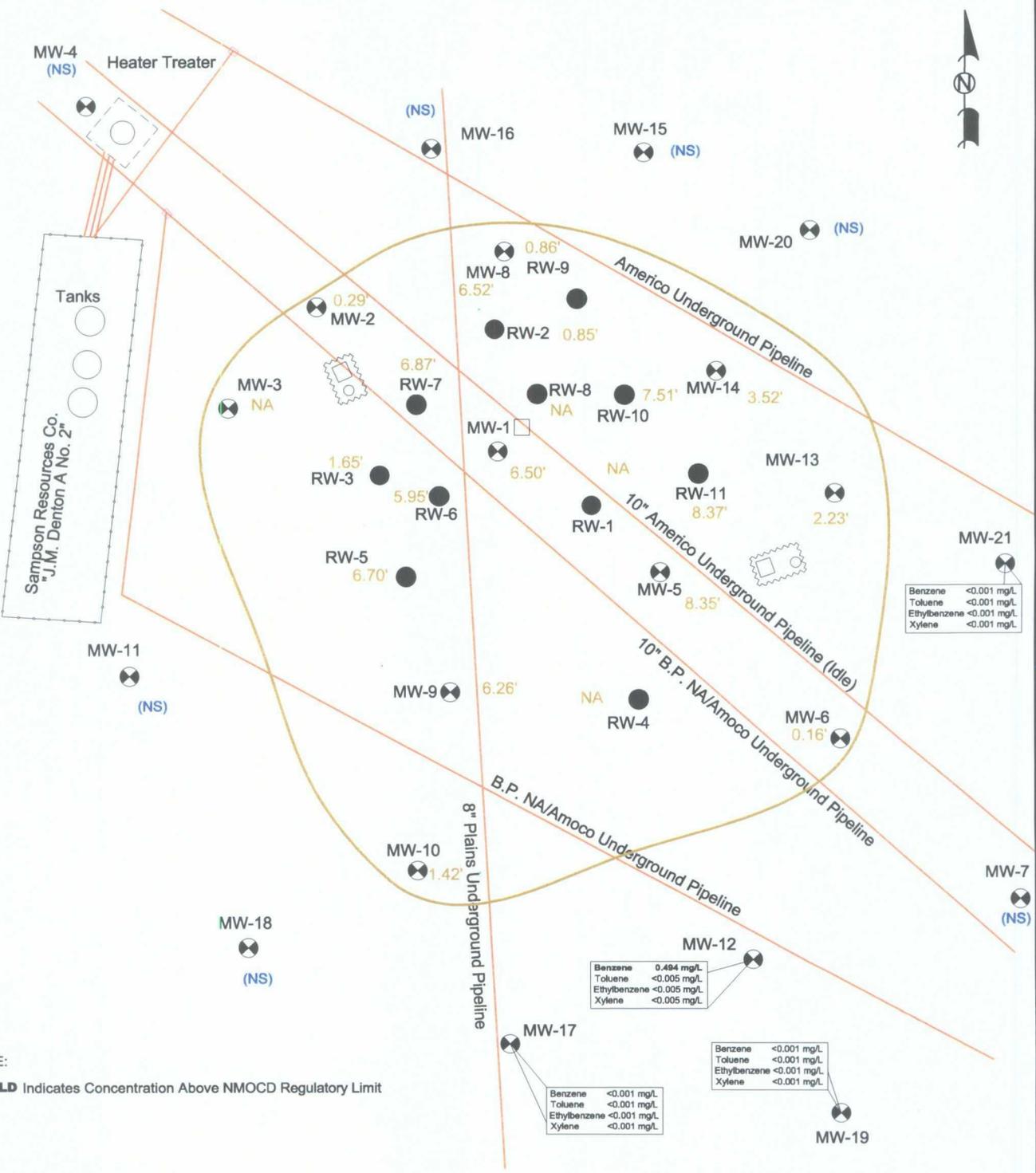


NMOCD Reference # AP-007

<b>LEGEND:</b> ☉ Monitor Well Location ● Recovery Well Location --- Product/Recovery Line --- Inferred PSH Extent 9.42' Thickness of PSH (feet)	[Dashed Box] Bermed Containment Area [Square] Shed [Circle] Poly Tank (NS) Not Sampled
--	---

**Figure 3A**  
 Groundwater Concentration and Inferred PSH Extent Map (02/27/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

<b>NOVA Safety and Environmental</b>	
MW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	CAD By: DGC
October 21, 2008	Checked By: RKR



NOTE:  
 • **BOLD** Indicates Concentration Above NMOCD Regulatory Limit

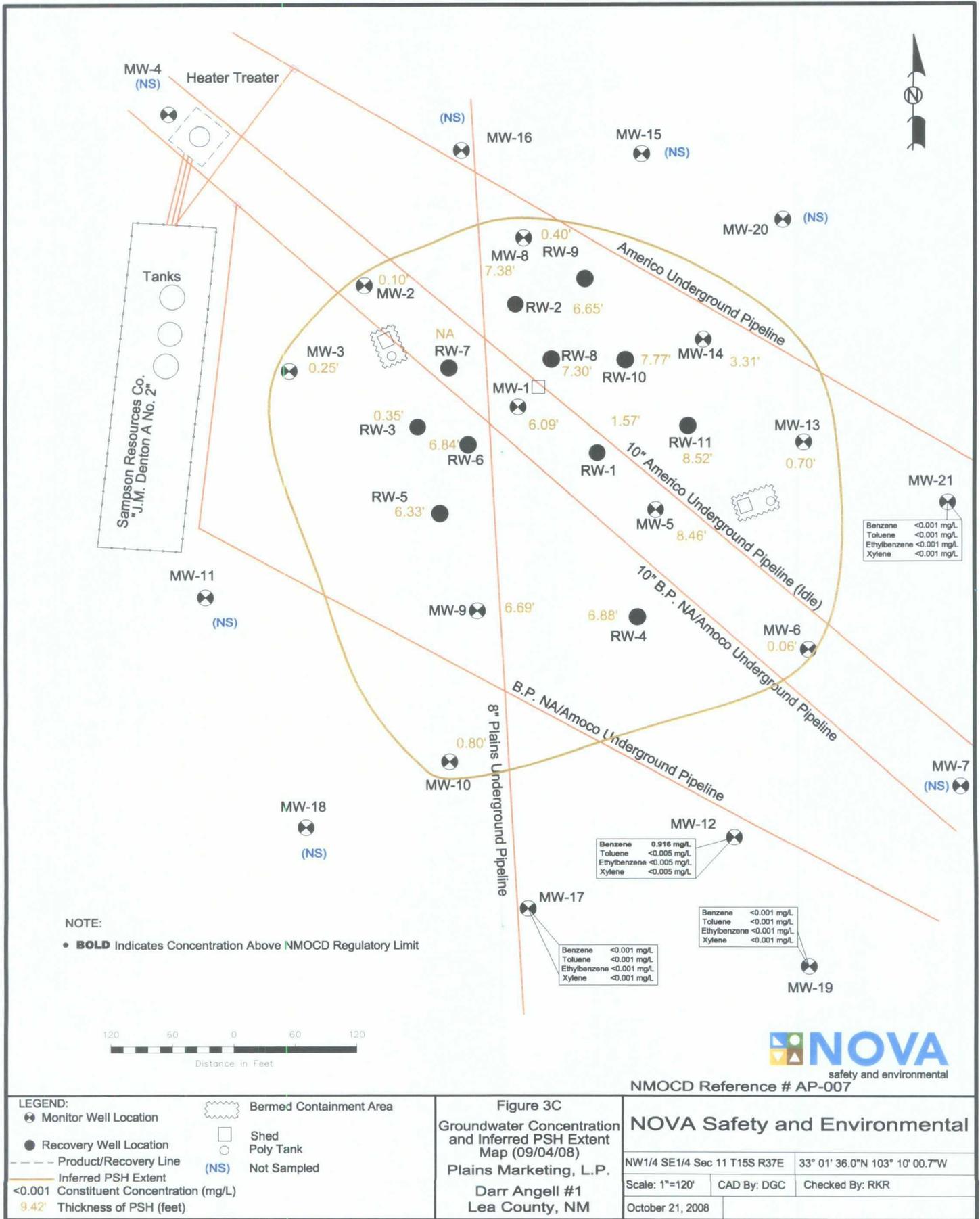


NMOCD Reference # AP-007

<b>LEGEND:</b>	Monitor Well Location	Bermed Containment Area
Recovery Well Location	Shed Poly Tank	(NS) Not Sampled
Product/Recovery Line		
Inferred PSH Extent		
<0.001 Constituent Concentration (mg/L)		
9.42' Thickness of PSH (feet)		

**Figure 3B**  
 Groundwater Concentration and Inferred PSH Extent Map (06/03/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

<b>NOVA Safety and Environmental</b>		
MW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W	
Scale: 1"=120'	CAD By: DGC	Checked By: RKR
October 21, 2008		



MW-4 (NS) Heater Treater

Tanks  
Sampson Resources Co.  
"J.M. Denton A No. 2"



(NS) MW-16 MW-15 (NS)

MW-20 (NS)

MW-8 0.40' RW-9 7.38' RW-2 6.65'

MW-3 0.25' MW-2 0.10' NA RW-7

MW-1 6.09' RW-8 7.30' RW-10 1.57' MW-14 3.31' RW-11 8.52'

RW-3 0.35' RW-5 6.33' RW-6 6.84'

MW-13 0.70'

MW-11 (NS)

MW-9 6.69'

RW-4 6.88'

MW-6 0.06'

Benzene <0.001 mg/L  
Toluene <0.001 mg/L  
Ethylbenzene <0.001 mg/L  
Xylene <0.001 mg/L

8" Plains Underground Pipeline  
B.P. NA/Amoco Underground Pipeline  
10" B.P. NA/Amoco Underground Pipeline  
10" Amoco Underground Pipeline

MW-7 (NS)

MW-18 (NS)

Benzene 0.916 mg/L  
Toluene <0.005 mg/L  
Ethylbenzene <0.005 mg/L  
Xylene <0.005 mg/L

MW-17

Benzene <0.001 mg/L  
Toluene <0.001 mg/L  
Ethylbenzene <0.001 mg/L  
Xylene <0.001 mg/L

Benzene <0.001 mg/L  
Toluene <0.001 mg/L  
Ethylbenzene <0.001 mg/L  
Xylene <0.001 mg/L

MW-19

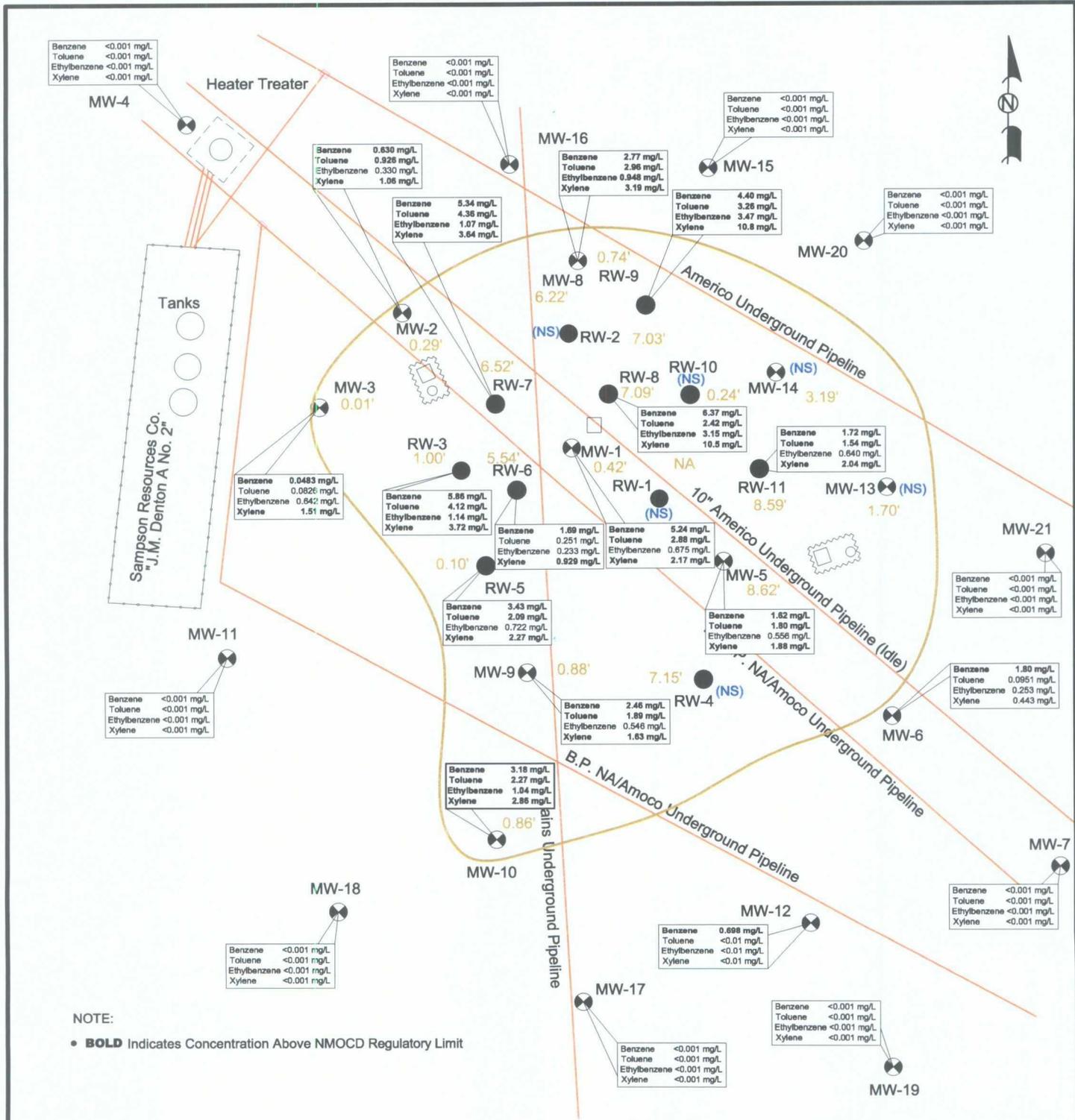


NMOCD Reference # AP-007

⊗ Monitor Well Location	⊞ Bermed Containment Area
● Recovery Well Location	□ Shed
- - - Product/Recovery Line	○ Poly Tank
--- Inferred PSH Extent	(NS) Not Sampled
<0.001 Constituent Concentration (mg/L)	
9.42' Thickness of PSH (feet)	

**Figure 3C**  
Groundwater Concentration and Inferred PSH Extent Map (09/04/08)  
Plains Marketing, L.P.  
Darr Angell #1  
Lea County, NM

NOVA Safety and Environmental	
NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	CAD By: DGC
October 21, 2008	Checked By: RKR



NOTE:  
 • **BOLD** Indicates Concentration Above NMOCD Regulatory Limit



LEGEND:	
	Monitor Well Location
	Recovery Well Location
	Product/Recovery Line
	Inferred PSH Extent
	<0.001 Constituent Concentration (mg/L)
	9.42' Thickness of PSH (feet)
	Bermed Containment Area
	Shed Poly Tank
	(NS) Not Sampled

Figure 3D  
 Groundwater Concentration and Inferred PSH Extent  
 Map (11/24/08)  
 Plains Marketing, L.P.  
 Darr Angell #1  
 Lea County, NM

NOVA Safety and Environmental	
MW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	CAD By: DGC
December 18, 2008	Checked By: RKR



## TABLES

**TABLE 1**  
**2008 - GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.**  
**DARR ANGELL #1**  
**LEA COUNTY, NEW MEXICO**  
**NMOC Reference Number AP-007**

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 1	02/27/08	3787.62	58.22	64.86	6.64	3728.40	
MW - 1	06/03/08	3787.62	60.02	66.52	6.50	3726.63	
MW - 1	08/25/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	09/02/08	3787.62	59.71	66.07	6.36	3726.96	
MW - 1	09/04/08	3787.62	59.79	65.88	6.09	3726.92	
MW - 1	09/16/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	09/29/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	10/06/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	10/27/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	11/10/08	3787.62	PUMP IN WELL			3787.62	
MW - 1	11/24/08	3787.62	61.42	61.84	0.42	3726.14	
MW - 2	01/08/08	3788.19	59.83	60.23	0.40	3728.30	
MW - 2	01/14/08	3788.19	59.83	60.23	0.40	3728.30	
MW - 2	01/21/08	3788.19	59.80	60.17	0.37	3728.33	
MW - 2	01/28/08	3788.19	59.86	60.17	0.31	3728.28	
MW - 2	02/04/08	3788.19	59.86	61.17	1.31	3728.13	
MW - 2	02/13/08	3788.19	59.85	60.34	0.49	3728.27	
MW - 2	02/18/08	3788.19	59.91	60.13	0.22	3728.25	
MW - 2	02/25/08	3788.19	59.91	60.20	0.29	3728.24	
MW - 2	02/27/08	3788.19	59.94	60.09	0.15	3728.23	
MW - 2	03/04/08	Broken Interface Probe					
MW - 2	03/11/08	3788.19	59.92	60.22	0.30	3728.23	
MW - 2	03/17/08	3788.19	59.93	60.19	0.26	3728.22	
MW - 2	03/21/08	3788.19	59.94	60.23	0.29	3728.21	
MW - 2	03/31/08	3788.19	59.94	60.24	0.30	3728.21	
MW - 2	04/07/08	3788.19	59.96	60.25	0.29	3728.19	
MW - 2	04/14/08	3788.19	59.95	60.37	0.42	3728.18	
MW - 2	04/21/08	3788.19	59.93	60.47	0.54	3728.18	
MW - 2	04/28/08	3788.19	59.92	60.50	0.58	3728.18	
MW - 2	05/05/08	3788.19	59.93	60.35	0.42	3728.20	
MW - 2	05/12/08	3788.19	59.97	60.37	0.40	3728.16	
MW - 2	05/19/08	3788.19	60.01	60.35	0.34	3728.13	
MW - 2	06/03/08	3788.19	60.05	60.34	0.29	3728.10	
MW - 2	06/09/08	3788.19	60.04	60.36	0.32	3728.10	
MW - 2	06/16/08	3788.19	60.04	60.34	0.30	3728.11	
MW - 2	06/26/08	3788.19	60.06	60.44	0.38	3728.07	
MW - 2	07/07/08	3788.19	60.08	60.47	0.39	3728.05	
MW - 2	07/21/08	Broken Interface Probe					
MW - 2	07/30/08	3788.19	60.10	60.45	0.35	3728.04	
MW - 2	08/06/08	3788.19	60.11	60.46	0.35	3728.03	
MW - 2	08/11/08	3788.19	60.13	60.46	0.33	3728.01	
MW - 2	08/20/08	3788.19	60.14	60.48	0.34	3728.00	
MW - 2	08/25/08	3788.19	60.16	60.38	0.22	3728.00	
MW - 2	09/02/08	3788.19	60.17	60.46	0.29	3727.98	
MW - 2	09/04/08	3788.19	60.18	60.28	0.10	3728.00	
MW - 2	09/16/08	3788.19	60.16	60.62	0.46	3727.96	
MW - 2	09/23/08	3788.19	60.18	60.47	0.29	3727.97	
MW - 2	09/29/08	3788.19	60.22	60.48	0.26	3727.93	
MW - 2	10/06/08	3788.19	60.21	60.54	0.33	3727.93	
MW - 2	10/13/08	3788.19	60.21	60.55	0.34	3727.93	
MW - 2	10/27/08	3788.19	60.25	60.50	0.25	3727.90	
MW - 2	11/03/08	3788.19	60.26	60.52	0.26	3727.89	
MW - 2	11/03/08	3788.19	Pump in Well			3788.19	
MW - 2	11/10/08	3788.19	60.27	60.52	0.25	3727.88	
MW - 2	11/17/08	3788.19	60.28	60.54	0.26	3727.87	
MW - 2	11/24/08	3788.19	60.27	60.56	0.29	3727.88	
MW - 2	12/10/08	3788.19	60.21	60.98	0.77	3727.86	
MW - 2	12/15/08	3788.19	60.31	60.59	0.28	3727.84	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 3	01/08/08	3789.03	60.59	-	-	-	
MW - 3	01/14/08	3789.03	60.57	-	-	-	
MW - 3	01/21/08	3789.03	60.56	-	-	-	
MW - 3	01/28/08	3789.03	60.78	-	-	-	
MW - 3	02/04/08	3789.03	60.81	-	-	-	
MW - 3	02/13/08	3789.03	60.71	-	-	-	
MW - 3	02/18/08	3789.03	60.74	-	-	-	
MW - 3	02/25/08	3789.03	60.77	-	-	-	
MW - 3	02/27/08	3789.03	60.76	61.08	0.32	3728.22	
MW - 3	03/11/08	3789.03	60.75	-	-	-	
MW - 3	03/17/08	3789.03	60.75	-	-	-	
MW - 3	03/21/08	3789.03	60.75	-	-	-	
MW - 3	03/31/08	3789.03	60.74	-	-	-	
MW - 3	04/07/08	3789.03	60.73	-	-	-	
MW - 3	04/14/08	3789.03	60.79	-	-	-	
MW - 3	04/21/08	3789.03	60.79	-	-	-	
MW - 3	04/28/08	3789.03	60.78	61.53	0.75	3728.14	
MW - 3	05/05/08	3789.03	60.77	-	-	-	
MW - 3	05/12/08	3789.03	60.76	-	-	-	
MW - 3	05/19/08	3789.03	60.75	-	-	-	
MW - 3	06/03/08	3789.03	60.76	-	-	-	
MW - 3	06/09/08	3789.03	60.75	-	-	-	
MW - 3	06/16/08	3789.03	60.83	-	-	-	
MW - 3	06/26/08	3789.03	60.87	-	-	-	
MW - 3	07/07/08	3789.03	60.91	-	-	-	
MW - 3	07/21/08			Broken Interface Probe			
MW - 3	07/21/08	3789.03	61.00	61.40	0.40	3727.97	
MW - 3	08/06/08	3789.03	61.00	61.28	0.28	3727.99	
MW - 3	08/11/08	3789.03	61.01	61.21	0.20	3727.99	
MW - 3	08/20/08	3789.03	61.02	61.26	0.24	3727.97	
MW - 3	08/25/08	3789.03	61.04	61.17	0.13	3727.97	
MW - 3	09/02/08	3789.03	61.04	61.23	0.19	3727.96	
MW - 3	09/04/08	3789.03	61.04	61.29	0.25	3727.95	
MW - 3	09/16/08	3789.03	61.05	61.29	0.24	3727.94	
MW - 3	09/23/08	3789.03	61.08	61.28	0.20	3727.92	
MW - 3	09/29/08	3789.03	61.09	61.32	0.23	3727.91	
MW - 3	10/06/08	3789.03	61.08	61.34	0.26	3727.91	
MW - 3	10/13/08	3789.03	61.08	61.35	0.27	3727.91	
MW - 3	10/27/08	3789.03	61.12	61.34	0.22	3727.88	
MW - 3	11/03/08	3789.03	61.13	61.36	0.23	3727.87	
MW - 3	11/10/08	3789.03	61.24	61.25	0.01	3727.79	
MW - 3	11/17/08	3789.03	-	61.12	0.00	3727.91	
MW - 3	11/24/08	3789.03	61.25	61.26	0.01	3727.78	
MW - 3	12/10/08	3789.03	-	61.28	0.00	3727.75	
MW - 3	12/15/08	3789.03	-	61.30	0.00	3727.73	
MW - 4	02/27/08	3790.06	-	60.81	0.00	3729.25	
MW - 4	06/03/08	3790.06	-	61.48	0.00	3728.58	
MW - 4	09/04/08	3790.06	-	61.61	0.00	3728.45	
MW - 4	11/24/08	3790.06	-	61.73	0.00	3728.33	
MW - 5	02/27/08	3787.47	58.39	66.61	8.22	3727.85	
MW - 5	06/03/08	3787.47	58.50	66.85	8.35	3727.72	
MW - 5	08/25/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	09/02/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	09/04/08	3787.47	58.64	67.10	8.46	3727.56	
MW - 5	09/16/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	09/23/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	09/29/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	10/06/08	3787.47		PUMP IN WELL		3787.47	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 5	10/27/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	11/03/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	11/10/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	11/17/08	3787.47		PUMP IN WELL		3787.47	
MW - 5	11/24/08	3787.47	58.68	67.30	8.62	3727.50	
MW - 6	01/08/08	3786.81	59.84	59.89	0.05	3726.96	
MW - 6	01/14/08	3786.81	59.56	59.61	0.05	3727.24	
MW - 6	01/21/08	3786.81	59.52	59.69	0.17	3727.26	
MW - 6	01/28/08	3786.81	59.57	59.68	0.11	3727.22	
MW - 6	02/04/08	3786.81	59.51	59.72	0.21	3727.27	
MW - 6	02/13/08	3786.81	59.54	59.72	0.18	3727.24	
MW - 6	02/18/08	3786.81	59.56	59.66	0.10	3727.24	
MW - 6	02/25/08	3786.81	59.57	59.69	0.12	3727.22	
MW - 6	02/27/08	3786.81	59.58	59.64	0.06	3727.22	
MW - 6	03/04/08		Broken Interface Probe				
MW - 6	03/11/08	3786.81	59.51	59.58	0.07	3727.29	
MW - 6	03/17/08	3786.81	59.60	59.69	0.09	3727.20	
MW - 6	03/21/08	3786.81	59.59	59.71	0.12	3727.20	
MW - 6	03/31/08	3786.81	59.61	59.72	0.11	3727.18	
MW - 6	04/07/08	3786.81	59.62	59.71	0.09	3727.18	
MW - 6	04/14/08	3786.81	59.62	59.73	0.11	3727.17	
MW - 6	04/21/08	3786.81	59.63	59.73	0.10	3727.17	
MW - 6	04/28/08	3786.81	59.63	59.81	0.18	3727.15	
MW - 6	05/05/08	3786.81	59.65	59.83	0.18	3727.13	
MW - 6	05/12/08	3786.81	59.66	59.81	0.15	3727.13	
MW - 6	05/19/08	3786.81	59.68	59.80	0.12	3727.11	
MW - 6	06/03/08	3786.81	59.69	59.85	0.16	3727.10	
MW - 6	06/09/08	3786.81	59.68	59.88	0.20	3727.10	
MW - 6	06/16/08	3786.81	59.70	59.88	0.18	3727.08	
MW - 6	06/26/08	3786.81	59.71	59.92	0.21	3727.07	
MW - 6	07/07/08	3786.81	59.73	59.94	0.21	3727.05	
MW - 6	07/21/08		Broken Interface Probe				
MW - 6	07/30/08	3786.81	59.76	59.94	0.18	3727.02	
MW - 6	08/06/08	3786.81	59.78	59.97	0.19	3727.00	
MW - 6	08/11/08	3786.81	59.76	59.83	0.07	3727.04	
MW - 6	08/20/08	3786.81	59.81	59.93	0.12	3726.98	
MW - 6	08/25/08	3786.81	59.81	59.89	0.08	3726.99	
MW - 6	09/02/08	3786.81	59.83	59.94	0.11	3726.96	
MW - 6	09/04/08	3786.81	59.83	59.89	0.06	3726.97	
MW - 6	09/16/08	3786.81	59.84	59.96	0.12	3726.95	
MW - 6	09/23/08	3786.81	59.84	59.92	0.08	3726.96	
MW - 6	09/29/08	3786.81	59.80	59.82	0.02	3727.01	
MW - 6	10/06/08	3786.81	59.87	59.96	0.09	3726.93	
MW - 6	10/13/08	3786.81	-	59.97	0.00	3726.84	
MW - 6	10/27/08	3786.81	-	62.11	0.00	3724.70	
MW - 6	11/03/08	3786.81	-	59.95	0.00	3726.86	
MW - 6	11/10/08	3786.81	-	60.02	0.00	3726.79	
MW - 6	11/17/08	3786.81	-	59.95	0.00	3726.86	
MW - 6	11/24/08	3786.81	-	60.00	0.00	3726.81	
MW - 6	12/10/08	3786.81	-	60.01	0.00	3726.80	
MW - 6	12/15/08	3786.81	-	60.01	0.00	3726.80	
MW - 7	02/27/08	3786.82	-	59.99	0.00	3726.83	
MW - 7	06/03/08	3786.82	-	60.12	0.00	3726.70	
MW - 7	09/04/08	3786.82	-	60.25	0.00	3726.57	
MW - 7	11/24/08	3786.82	-	60.38	0.00	3726.44	
MW - 8	01/08/08	3788.24	59.80	61.49	1.69	3728.19	
MW - 8	01/14/08	3788.24	59.96	60.73	0.77	3728.16	

**TABLE 1**  
**2008 - GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.**  
**DARR ANGELL #1**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD Reference Number AP-007**

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 8	01/21/08	3788.24	59.95	60.88	0.93	3728.15	
MW - 8	01/28/08	3788.24	59.94	60.96	1.02	3728.15	
MW - 8	02/04/08	3788.24	59.97	60.88	0.91	3728.13	
MW - 8	02/13/08	3788.24	59.96	60.99	1.03	3728.13	
MW - 8	02/18/08	3788.24	60.04	60.59	0.55	3728.12	
MW - 8	02/25/08	3788.24	60.01	60.91	0.90	3728.10	
MW - 8	02/27/08	3788.24	60.03	60.66	0.63	3728.12	
MW - 8	03/04/08	Broken Interface Probe					
MW - 8	03/11/08	3788.24	60.02	60.91	0.89	3728.09	
MW - 8	03/17/08	3788.24	60.03	60.84	0.81	3728.09	
MW - 8	03/21/08	3788.24	60.03	60.91	0.88	3728.08	
MW - 8	03/31/08	3788.24	60.03	60.95	0.92	3728.07	
MW - 8	04/07/08	3788.24	60.06	60.92	0.86	3728.05	
MW - 8	04/14/08	3788.24	60.08	60.85	0.77	3728.04	
MW - 8	04/21/08	3788.24	60.05	61.09	1.04	3728.03	
MW - 8	04/28/08	3788.24	60.09	60.92	0.83	3728.03	
MW - 8	05/05/08	3788.24	60.10	60.96	0.86	3728.01	
MW - 8	05/12/08	3788.24	60.07	61.10	1.03	3728.02	
MW - 8	05/19/08	3788.24	60.13	60.90	0.77	3727.99	
MW - 8	06/03/08	3788.24	60.14	61.00	0.86	3727.97	
MW - 8	06/09/08	3788.24	60.17	60.91	0.74	3727.96	
MW - 8	06/16/08	3788.24	60.17	61.03	0.86	3727.94	
MW - 8	06/26/08	3788.24	60.02	61.27	1.25	3728.03	
MW - 8	07/07/08	3788.24	60.11	61.41	1.30	3727.94	
MW - 8	07/21/08	Broken Interface Probe					
MW - 8	07/30/08	3788.24	60.15	61.40	1.25	3727.90	
MW - 8	08/06/08	3788.24	60.19	61.25	1.06	3727.89	
MW - 8	08/11/08	3788.24	60.29	60.87	0.58	3727.86	
MW - 8	08/20/08	3788.24	60.22	61.26	1.04	3727.86	
MW - 8	08/25/08	3788.24	60.30	60.92	0.62	3727.85	
MW - 8	09/02/08	3788.24	60.26	61.17	0.91	3727.84	
MW - 8	09/04/08	3788.24	60.31	60.71	0.40	3727.87	
MW - 8	09/16/08	3788.24	60.17	61.69	1.52	3727.84	
MW - 8	09/23/08	3788.24	60.28	61.23	0.95	3727.82	
MW - 8	09/29/08	3788.24	60.32	61.14	0.82	3727.80	
MW - 8	10/06/08	3788.24	60.31	61.24	0.93	3727.79	
MW - 8	10/13/08	3788.24	60.33	61.21	0.88	3727.78	
MW - 8	10/27/08	3788.24	60.39	61.05	0.66	3727.75	
MW - 8	11/03/08	3788.24	60.38	61.09	0.71	3727.75	
MW - 8	11/10/08	3788.24	60.38	61.11	0.73	3727.75	
MW - 8	11/17/08	3788.24	60.40	61.11	0.71	3727.73	
MW - 8	11/24/08	3788.24	60.41	61.15	0.74	3727.72	
MW - 8	12/10/08	3788.24	60.20	62.23	2.03	3727.74	
MW - 8	12/15/08	3788.24	60.48	61.00	0.52	3727.68	
MW - 9	02/27/08	3788.33	58.96	63.76	4.80	3728.65	
MW - 9	06/03/08	3788.33	59.66	65.92	6.26	3727.73	
MW - 9	08/25/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	09/02/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	09/04/08	3788.33	59.68	66.37	6.69	3727.65	
MW - 9	09/16/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	09/23/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	09/29/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	10/06/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	10/27/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	11/03/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	11/10/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	11/17/08	3788.33	PUMP IN WELL			3788.33	
MW - 9	11/25/08	3788.33	60.99	61.11	0.88	3727.97	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 10	01/03/08	3788.46	59.57	66.65	7.08	3727.83	
MW - 10	01/08/08	3788.46	59.86	65.51	5.65	3727.75	
MW - 10	01/14/08	3788.46	60.38	62.98	2.60	3727.69	
MW - 10	01/21/08	3788.46	60.47	62.65	2.18	3727.66	
MW - 10	01/28/08	3788.46	60.52	62.48	1.96	3727.65	
MW - 10	02/04/08	3788.46	60.55	62.31	1.76	3727.65	
MW - 10	02/13/08	3788.46	60.54	62.56	2.02	3727.62	
MW - 10	02/18/08	3788.46	60.66	62.10	1.44	3727.58	
MW - 10	02/25/08	3788.46	60.62	62.24	1.62	3727.60	
MW - 10	02/27/08	3788.46	60.63	60.71	0.08	3727.82	
MW - 10	03/04/08		Broken Interface Probe				
MW - 10	03/11/08	3788.46	60.61	62.38	1.77	3727.58	
MW - 10	03/17/08	3788.46	60.63	62.32	1.69	3727.58	
MW - 10	03/21/08	3788.46	60.68	62.12	1.44	3727.56	
MW - 10	03/31/08	3788.46	60.63	62.34	1.71	3727.57	
MW - 10	04/07/08	3788.46	60.71	62.15	1.44	3727.53	
MW - 10	04/14/08	3788.46	60.69	62.21	1.52	3727.54	
MW - 10	04/21/08	3788.46	60.72	62.21	1.49	3727.52	
MW - 10	04/28/08	3788.46	60.73	62.16	1.43	3727.52	
MW - 10	05/05/08	3788.46	60.74	62.20	1.46	3727.50	
MW - 10	05/12/08	3788.46	60.72	62.28	1.56	3727.51	
MW - 10	05/19/08	3788.46	60.77	62.12	1.35	3727.49	
MW - 10	06/03/08	3788.46	60.78	62.20	1.42	3727.47	
MW - 10	06/09/08	3788.46	60.83	61.97	1.14	3727.46	
MW - 10	06/16/08	3788.46	60.84	62.07	1.23	3727.44	
MW - 10	06/26/08	3788.46	60.79	62.36	1.57	3727.43	
MW - 10	07/07/08	3788.46	60.77	62.58	1.81	3727.42	
MW - 10	07/21/08		Broken Interface Probe				
MW - 10	08/06/08	3788.46	60.73	62.99	2.26	3727.39	
MW - 10	08/11/08	3788.46	60.94	61.93	0.99	3727.37	
MW - 10	08/20/08	3788.46	60.88	62.34	1.46	3727.36	
MW - 10	08/25/08	3788.46	60.96	62.01	1.05	3727.34	
MW - 10	09/02/08	3788.46	60.93	62.23	1.30	3727.34	
MW - 10	09/04/08	3788.46	61.02	61.82	0.80	3727.32	
MW - 10	09/16/08	3788.46	60.84	62.85	2.01	3727.32	
MW - 10	09/23/08	3788.46	60.95	62.31	1.36	3727.31	
MW - 10	09/29/08	3788.46	60.98	62.17	1.19	3727.30	
MW - 10	10/06/08	3788.46	60.99	62.23	1.24	3727.28	
MW - 10	10/13/08	3788.46	61.01	62.23	1.22	3727.27	
MW - 10	10/27/08	3788.46	61.07	62.11	1.04	3727.23	
MW - 10	11/03/08	3788.46	61.04	62.24	1.20	3727.24	
MW - 10	11/10/08	3788.46	61.07	62.12	1.05	3727.23	
MW - 10	11/17/08	3788.46	61.08	62.22	1.14	3727.21	
MW - 10	11/24/08	3788.46	61.14	62.00	0.86	3727.19	
MW - 10	12/10/08	3788.46	60.95	62.95	2.00	3727.21	
MW - 10	12/15/08	3788.46	61.08	62.37	1.29	3727.19	
MW - 11	02/27/08	3789.55	-	61.52	0.00	3728.03	
MW - 11	06/03/08	3789.55	-	61.64	0.00	3727.91	
MW - 11	09/04/08	3789.55	-	61.76	0.00	3727.79	
MW - 11	11/24/08	3789.55	-	61.89	0.00	3727.66	
MW - 12	02/27/08	3787.81	-	60.71	0.00	3727.10	
MW - 12	06/03/08	3787.81	-	60.82	0.00	3726.99	
MW - 12	09/04/08	3787.81	-	59.96	0.00	3727.85	
MW - 12	11/24/08	3787.81	-	61.08	0.00	3726.73	
MW - 13	01/03/08	3788.55	60.00	-	-	-	
MW - 13	01/08/08	3788.55	60.64	62.87	2.23	3727.58	
MW - 13	01/14/08	3788.55	60.70	62.67	1.97	3727.55	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 13	01/21/08	3788.55	60.68	62.83	2.15	3727.55	
MW - 13	01/28/08	3788.55	60.70	62.86	2.16	3727.53	
MW - 13	02/04/08	3788.55	60.74	62.60	1.86	3727.53	
MW - 13	02/13/08	3788.55	60.65	63.18	2.53	3727.52	
MW - 13	02/18/08	3788.55	60.80	62.50	1.70	3727.50	
MW - 13	02/25/08	3788.55	60.71	62.77	2.06	3727.53	
MW - 13	02/27/08	3788.55	60.95	61.72	0.77	3727.48	
MW - 13	03/04/08	Broken Interface Probe					
MW - 13	03/11/08	3788.55	60.78	62.78	2.00	3727.47	
MW - 13	03/17/08	3788.55	60.74	63.01	2.27	3727.47	
MW - 13	03/21/08	3788.55	60.72	63.11	2.39	3727.47	
MW - 13	03/31/08	3788.55	60.76	62.94	2.18	3727.46	
MW - 13	04/07/08	3788.55	60.75	63.14	2.39	3727.44	
MW - 13	04/14/08	3788.55	60.81	62.86	2.05	3727.43	
MW - 13	04/21/08	3788.55	60.76	63.15	2.39	3727.43	
MW - 13	04/28/08	3788.55	60.74	63.26	2.52	3727.43	
MW - 13	05/05/08	3788.55	60.80	63.06	2.26	3727.41	
MW - 13	05/12/08	3788.55	60.85	62.79	1.94	3727.41	
MW - 13	05/19/08	3788.55	60.69	63.11	2.42	3727.50	
MW - 13	06/03/08	3788.55	60.84	63.07	2.23	3727.38	
MW - 13	06/09/08	3788.55	60.92	62.77	1.85	3727.35	
MW - 13	06/16/08	3788.55	60.91	62.84	1.93	3727.35	
MW - 13	06/26/08	3788.55	60.80	0.00	-60.80	3736.87	
MW - 13	07/07/08	3788.55	60.76	0.00	-60.76	3736.90	
MW - 13	07/21/08	Broken Interface Probe					
MW - 13	07/30/08	3788.55	60.82	63.32	2.50	3727.36	
MW - 13	08/06/08	3788.55	60.99	62.94	1.95	3727.27	
MW - 13	08/11/08	3788.55	61.03	62.71	1.68	3727.27	
MW - 13	08/20/08	3788.55	60.94	63.23	2.29	3727.27	
MW - 13	08/25/08	3788.55	61.09	62.68	1.59	3727.22	
MW - 13	09/02/08	3788.55	61.04	62.92	1.88	3727.23	
MW - 13	09/04/08	3788.55	61.24	61.94	0.70	3727.21	
MW - 13	09/16/08	3788.55	60.90	61.94	1.04	3727.49	
MW - 13	09/23/08	3788.55	61.07	62.93	1.86	3727.20	
MW - 13	09/29/08	3788.55	61.14	62.69	1.55	3727.18	
MW - 13	10/06/08	3788.55	61.12	62.86	1.74	3727.17	
MW - 13	10/13/08	3788.55	61.15	62.72	1.57	3727.16	
MW - 13	10/27/08	3788.55	61.16	62.81	1.65	3727.14	
MW - 13	11/03/08	3788.55	61.15	62.78	1.63	3727.16	
MW - 13	11/10/08	3788.55	61.18	62.79	1.61	3727.13	
MW - 13	11/17/08	3788.55	61.06	62.85	1.79	3727.22	
MW - 13	11/24/08	3788.55	61.18	62.88	1.70	3727.12	
MW - 13	12/10/08	3788.55	61.01	n/d	0.00	0.00	
MW - 13	12/15/08	3788.55	61.20	63.00	1.80	3727.08	
MW - 14	01/03/08	3788.72	59.44	63.02	3.58	3728.74	
MW - 14	01/08/08	3788.72	59.47	63.17	3.70	3728.70	
MW - 14	01/14/08	3788.72	59.47	-	-	-	
MW - 14	01/21/08	3788.72	59.46	-	-	-	
MW - 14	01/28/08	3788.72	59.48	-	-	-	
MW - 14	02/04/08	3788.72	59.49	63.11	3.62	3728.69	
MW - 14	02/13/08	3788.72	59.57	63.13	3.56	3728.62	
MW - 14	02/18/08	3788.72	59.52	-	-	-	
MW - 14	02/25/08	3788.72	59.54	-	-	-	
MW - 14	02/27/08	3788.72	59.54	-	-	-	
MW - 14	03/04/08	Broken Interface Probe					
MW - 14	03/11/08	3788.72	59.55	-	-	-	
MW - 14	03/17/08	3788.72	59.56	-	-	-	
MW - 14	03/21/08	3788.72	59.55	-	-	-	
MW - 14	03/31/08	3788.72	59.57	-	-	-	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	04/07/08	3788.72	59.58	-	-	-
MW - 14	04/14/08	3788.72	59.59	63.20	-	-
MW - 14	04/21/08	3788.72	59.61	63.21	3.60	3728.57
MW - 14	04/28/08	3788.72	59.61	63.21	3.60	3728.57
MW - 14	05/05/08	3788.72	59.61	63.19	3.58	3728.57
MW - 14	05/12/08	3788.72	59.61	63.19	3.58	3728.57
MW - 14	05/19/08	3788.72	59.63	63.19	3.56	3728.56
MW - 14	06/03/08	3788.72	59.68	63.20	3.52	3728.51
MW - 14	06/09/08	3788.72	59.67	63.13	3.46	3728.53
MW - 14	06/16/08	3788.72	59.67	63.13	0.00	3728.53
MW - 14	06/26/08	3788.72	59.69	63.07	3.38	3728.52
MW - 14	07/07/08	3788.72	59.72	63.07	0.00	3728.52
MW - 14	07/21/08			Broken Interface Probe		
MW - 14	07/30/08	3788.72	59.72	-	0.00	3728.52
MW - 14	08/06/08	3788.72	59.74	-	0.00	3728.52
MW - 14	08/11/08	3788.72	59.76	-	0.00	3728.52
MW - 14	08/20/08	3788.72	59.77	63.18	3.41	3728.52
MW - 14	08/25/08	3788.72	59.77	63.20	3.43	3728.52
MW - 14	09/02/08	3788.72	59.79	63.20	3.41	3728.52
MW - 14	09/04/08	3788.72	59.82	63.13	3.31	3728.52
MW - 14	09/16/08	3788.72	59.82	63.13	3.31	3728.52
MW - 14	09/23/08	3788.72	59.81	nd	0.00	3728.52
MW - 14	09/29/08	3788.72	59.84	63.18	3.34	3728.52
MW - 14	10/06/08	3788.72	59.84	63.13	3.29	3728.52
MW - 14	10/13/08	3788.72	59.84	63.13	3.29	3728.52
MW - 14	10/27/08	3788.72	59.89	63.23	3.34	3728.52
MW - 14	11/03/08	3788.72	59.87	63.20	3.33	3728.52
MW - 14	11/10/08	3788.72	59.89	63.24	3.35	3728.52
MW - 14	11/17/08	3788.72	59.90	63.27	3.37	3728.52
MW - 14	11/24/08	3788.72	59.92	63.11	3.19	3728.52
MW - 14	12/10/08	3788.72	59.93	63.10	3.17	3728.52
MW - 14	12/15/08	3788.72	59.94	63.13	3.19	3728.52
MW - 15	02/27/08	3788.95	-	60.95	0.00	3728.00
MW - 15	06/03/08	3788.95	-	61.08	0.00	3727.87
MW - 15	09/04/08	3788.95	-	61.22	0.00	3727.73
MW - 15	11/24/08	3788.95	-	61.33	0.00	3727.62
MW - 16	02/27/08	3789.61	-	61.37	0.00	3728.24
MW - 16	06/03/08	3789.61	-	-	0.00	-
MW - 16	09/04/08	3789.61	-	61.62	0.00	3727.99
MW - 16	11/24/08	3789.61	-	61.73	0.00	3727.88
MW - 17	02/27/08	3787.95	-	60.65	0.00	3727.30
MW - 17	06/03/08	3787.95	-	60.79	0.00	3727.16
MW - 17	09/04/08	3787.95	-	60.91	0.00	3727.04
MW - 17	11/24/08	3787.95	-	61.02	0.00	3726.93
MW - 18	02/27/08	3788.82	-	61.12	0.00	3727.70
MW - 18	06/03/08	3788.82	-	61.25	0.00	3727.57
MW - 18	09/04/08	3788.82	-	61.39	0.00	3727.43
MW - 18	11/24/08	3788.82	-	61.50	0.00	3727.32
MW - 19	02/27/08	3787.51	-	60.68	0.00	3726.83
MW - 19	06/03/08	3787.51	-	60.79	0.00	3726.72
MW - 19	09/04/08	3787.51	-	60.91	0.00	3726.60
MW - 19	11/24/08	3787.51	-	61.03	0.00	3726.48
MW - 20	02/27/08	3788.53	-	60.81	0.00	3727.72
MW - 20	06/03/08	3788.53	-	60.94	0.00	3727.59

**TABLE 1**  
**2008 - GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.**  
**DARR ANGELL #1**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD Reference Number AP-007**

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
MW - 20	09/04/08	3788.53	-	61.07	0.00	3727.46	
MW - 20	11/24/08	3788.53	-	61.18	0.00	3727.35	
MW - 21	02/27/08	3786.46	-	60.68	0.00	3725.78	
MW - 21	06/03/08	3786.46	-	60.80	0.00	3725.66	
MW - 21	09/04/08	3786.46	-	60.94	0.00	3725.52	
MW - 21	11/24/08	3786.46	-	61.07	0.00	3725.39	
RW - 1	02/27/08	3788.33	Well Obstructed				
RW - 1	06/03/08	3788.33	59.03	-	-		
RW - 1	08/25/08	3788.33	PUMP IN WELL				
RW - 1	09/02/08	3788.33	PUMP IN WELL				
RW - 1	09/04/08	3788.33	59.15	60.72	1.57	3728.94	
RW - 1	09/16/08	3788.33	PUMP IN WELL				
RW - 1	09/23/08	3788.33	PUMP IN WELL				
RW - 1	09/29/08	3788.33	PUMP IN WELL				
RW - 1	10/06/08	3788.33	PUMP IN WELL				
RW - 1	10/27/08	3788.33	PUMP IN WELL				
RW - 1	11/03/08	3788.33	PUMP IN WELL				
RW - 1	11/10/08	3788.33	PUMP IN WELL				
RW - 1	11/17/08	3788.33	PUMP IN WELL				
RW - 1	11/25/08	3788.33	59.25	n.d.			
RW - 2	01/03/08	3788.98	59.42	67.02	7.60	3728.42	
RW - 2	01/08/08	3788.98	59.46	67.08	7.62	3728.38	
RW - 2	01/14/08	3788.98	59.60	66.78	7.18	3728.30	
RW - 2	01/21/08	3788.98	59.57	66.94	7.37	3728.30	
RW - 2	01/28/08	3788.98	59.60	66.79	7.19	3728.30	
RW - 2	02/04/08	3788.98	Pump Installed				
RW - 2	02/27/08	3788.98	59.76	66.71	6.95	3728.18	
RW - 2	06/03/08	3788.98	60.38	66.90	6.52	3727.62	
RW - 2	08/25/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	09/02/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	09/04/08	3788.98	59.76	67.14	7.38	3728.11	
RW - 2	09/16/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	09/23/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	09/29/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	10/06/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	10/27/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	11/10/08	3788.98	PUMP IN WELL			3788.98	
RW - 2	11/25/08	3788.98	60.73	66.95	6.22	3727.32	
RW - 3	01/03/08	3788.95	59.75	65.82	6.07	3728.29	
RW - 3	01/08/08	3788.95	60.65	61.90	1.25	3728.11	
RW - 3	01/14/08	3788.95	60.64	62.01	1.37	3728.10	
RW - 3	01/21/08	3788.95	60.60	62.20	1.60	3728.11	
RW - 3	01/28/08	3788.95	60.62	62.13	1.51	3728.10	
RW - 3	02/04/08	3788.95	60.65	62.14	1.49	3728.08	
RW - 3	02/13/08	3788.95	60.57	62.52	1.95	3728.09	
RW - 3	02/18/08	3788.95	60.74	61.82	1.08	3728.05	
RW - 3	02/25/08	3788.95	60.70	62.10	1.40	3728.04	
RW - 3	02/27/08	3788.95	60.86	61.38	0.52	3728.01	
RW - 3	03/04/08	Broken Interface Probe					
RW - 3	03/11/08	3788.95	60.70	62.11	1.41	3728.04	
RW - 3	03/17/08	3788.95	60.76	61.94	1.18	3728.01	
RW - 3	03/21/08	3788.95	60.73	62.11	1.38	3728.01	
RW - 3	03/31/08	3788.95	60.76	62.04	1.28	3728.00	
RW - 3	04/07/08	3788.95	60.78	62.03	1.25	3727.98	
RW - 3	04/14/08	3788.95	60.76	62.00	1.24	3728.00	
RW - 3	04/21/08	3788.95	60.79	62.03	1.24	3727.97	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	
RW - 3	04/28/08	3788.95	60.80	62.03	1.23	3727.97	
RW - 3	05/05/08	3788.95	60.80	62.02	1.22	3727.97	
RW - 3	05/12/08	3788.95	60.77	62.21	1.44	3727.96	
RW - 3	05/19/08	3788.95	60.82	62.00	1.18	3727.95	
RW - 3	06/03/08	3788.95	60.76	62.41	1.65	3727.94	
RW - 3	06/09/08	3788.95	60.89	61.93	1.04	3727.90	
RW - 3	06/16/08	3788.95	60.89	61.99	1.10	3727.90	
RW - 3	06/26/08	3788.95	60.83	62.33	1.50	3727.90	
RW - 3	07/07/08	3788.95	60.83	62.49	1.66	3727.87	
RW - 3	07/21/08		Broken Interface Probe				
RW - 3	07/30/08	3788.95	60.90	62.22	1.32	3727.85	
RW - 3	08/06/08	3788.95	60.93	62.27	1.34	3727.82	
RW - 3	08/11/08	3788.95	61.04	61.78	0.74	3727.80	
RW - 3	08/20/08	3788.95	60.97	62.22	1.25	3727.79	
RW - 3	08/25/08	3788.95	61.06	61.80	0.74	3727.78	
RW - 3	09/02/08	3788.95	61.00	62.12	1.12	3727.78	
RW - 3	09/04/08	3788.95	61.12	61.47	0.35	3727.78	
RW - 3	09/16/08	3788.95	60.89	62.72	1.83	3727.79	
RW - 3	09/23/08	3788.95	61.06	62.03	0.97	3727.74	
RW - 3	09/29/08	3788.95	61.03	62.18	1.15	3727.75	
RW - 3	10/06/08	3788.95	61.04	62.27	1.23	3727.73	
RW - 3	10/13/08	3788.95	61.04	62.26	1.22	3727.73	
RW - 3	10/27/08	3788.95	61.13	61.79	0.66	3727.72	
RW - 3	11/03/08	3788.95	61.10	62.12	1.02	3727.70	
RW - 3	11/10/08	3788.95	61.12	62.12	1.00	3727.68	
RW - 3	11/17/08	3788.95	61.13	62.13	1.00	3727.67	
RW - 3	11/25/08	3788.95	61.13	62.13	1.00	3727.67	
RW - 3	12/10/08	3788.95	60.88	63.41	2.53	3727.69	
RW - 3	12/15/08	3788.95	61.20	61.99	0.79	3727.63	
RW - 4	01/03/08	3788.15	59.00	-	-	-	
RW - 4	01/08/08	3788.15	59.15	-	-	-	
RW - 4	02/27/08	3788.15	59.84	66.71	6.87	3727.28	
RW - 4	06/03/08		Broken Interface Probe				
RW - 4	09/04/08	3788.15	59.83	66.71	6.88	3727.29	
RW - 4	09/16/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	09/23/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	09/29/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	10/06/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	10/27/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	11/03/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	11/10/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	11/17/08	3788.15		PUMP IN WELL		3788.15	
RW - 4	11/25/08	3788.15	59.75	66.90	7.15	3727.33	
RW - 5	01/03/08	3788.83	59.56	68.89	9.33	3727.87	
RW - 5	01/08/08	3788.83	59.55	68.84	9.29	3727.89	
RW - 5	02/27/08	3788.83	59.74	66.54	6.80	3728.07	
RW - 5	06/03/08	3788.83	61.30	68.00	6.70	3726.53	
RW - 5	08/25/08	3788.83		PUMP IN WELL		3788.83	
RW - 5	09/02/08	3788.83		PUMP IN WELL		3788.83	
RW - 5	09/04/08	3788.83	61.19	67.52	6.33	3726.69	
RW - 5	09/16/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	09/23/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	09/29/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	10/06/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	10/27/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	11/03/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	11/10/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	11/17/08	3788.83		PUMP IN WELL		3726.69	
RW - 5	11/25/08	3788.83	62.32	62.42	0.10	3726.50	

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 6	02/27/08	3788.93	59.39	65.41	6.02	3728.64
RW - 6	06/03/08	3788.93	60.80	66.75	5.95	3727.24
RW - 6	08/25/08	3788.93		PUMP IN WELL		3788.93
RW - 6	09/02/08	3788.93		PUMP IN WELL		3788.93
RW - 6	09/04/08	3788.93	59.91	66.75	6.84	3727.99
RW - 6	09/16/08	3788.93		PUMP IN WELL		3788.93
RW - 6	09/23/08	3788.93		PUMP IN WELL		3788.93
RW - 6	09/29/08	3788.93		PUMP IN WELL		3788.93
RW - 6	10/06/08	3788.93		PUMP IN WELL		3788.93
RW - 6	10/27/08	3788.93		PUMP IN WELL		3788.93
RW - 6	11/03/08	3788.93		PUMP IN WELL		3788.93
RW - 6	11/10/08	3788.93		PUMP IN WELL		3788.93
RW - 6	11/17/08	3788.93		PUMP IN WELL		3788.93
RW - 6	11/25/08	3788.93	61.25	66.79	5.54	3726.85
RW - 7	02/27/08	3789.07	60.29	67.03	6.74	3727.77
RW - 7	06/03/08	3789.07	60.68	67.55	6.87	3727.36
RW - 7	08/25/08	3789.07		PUMP IN WELL		3789.07
RW - 7	09/02/08	3789.07		PUMP IN WELL		3789.07
RW - 7	09/04/08	3789.07		Cap Stuck - Didn't gauge		3789.07
RW - 7	09/16/08	3789.07		PUMP IN WELL		3789.07
RW - 7	09/23/08	3789.07		PUMP IN WELL		3789.07
RW - 7	09/29/08	3789.07		PUMP IN WELL		3789.07
RW - 7	10/06/08	3789.07		PUMP IN WELL		3789.07
RW - 7	10/27/08	3789.07		PUMP IN WELL		3789.07
RW - 7	11/03/08	3789.07		PUMP IN WELL		3789.07
RW - 7	11/10/08	3789.07		PUMP IN WELL		3789.07
RW - 7	11/17/08	3789.07		PUMP IN WELL		3789.07
RW - 7	11/25/08	3789.07	61.15	67.67	6.52	3726.94
RW - 8	02/27/08	3788.48	60.35	67.61	7.26	3727.04
RW - 8	06/03/08	3788.48	60.48	-	-	-
RW - 8	08/25/08	3788.48		PUMP IN WELL		-
RW - 8	09/02/08	3788.48		PUMP IN WELL		-
RW - 8	09/04/08	3788.48	60.59	67.89	7.30	3726.80
RW - 8	09/16/08	3788.48		PUMP IN WELL		3788.48
RW - 8	09/23/08	3788.48		PUMP IN WELL		3788.48
RW - 8	09/29/08	3788.48		PUMP IN WELL		3788.48
RW - 8	10/06/08	3788.48		PUMP IN WELL		3788.48
RW - 8	10/27/08	3788.48		PUMP IN WELL		3788.48
RW - 8	11/03/08	3788.48		PUMP IN WELL		3788.48
RW - 8	11/10/08	3788.48		PUMP IN WELL		3788.48
RW - 8	11/17/08	3788.48		PUMP IN WELL		3788.48
RW - 8	11/25/08	3788.48	60.18	67.27	7.09	3727.24
RW - 9	02/27/08	3788.92	60.24	64.82	4.58	3727.99
RW - 9	06/03/08	3788.92	66.00	66.85	0.85	3722.79
RW - 9	08/25/08	3788.92		PUMP IN WELL		3788.92
RW - 9	09/02/08	3788.92		PUMP IN WELL		3788.92
RW - 9	09/04/08	3788.92	60.50	67.15	6.65	3727.42
RW - 9	09/16/08	3788.92		PUMP IN WELL		3788.92
RW - 9	09/23/08	3788.92		PUMP IN WELL		3788.92
RW - 9	09/29/08	3788.92		PUMP IN WELL		3788.92
RW - 9	10/06/08	3788.92		PUMP IN WELL		3788.92
RW - 9	10/27/08	3788.92		PUMP IN WELL		3788.92
RW - 9	11/03/08	3788.92		PUMP IN WELL		3788.92
RW - 9	11/10/08	3788.92		PUMP IN WELL		3788.92
RW - 9	11/17/08	3788.92		PUMP IN WELL		3788.92
RW - 9	11/25/08	3788.92	60.15	67.18	7.03	3727.72

TABLE 1

## 2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO  
NMOCD Reference Number AP-007

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 10	02/27/08	3788.72	59.62	67.49	7.87	3727.92
RW - 10	06/03/08	3788.72	59.81	67.32	7.51	3727.78
RW - 10	08/25/08	3788.72	PUMP IN WELL			3788.72
RW - 10	09/02/08	3788.72	PUMP IN WELL			3788.72
RW - 10	09/04/08	3788.72	59.92	67.69	7.77	3727.63
RW - 10	09/16/08	3788.72	PUMP IN WELL			3788.72
RW - 10	09/23/08	3788.72	PUMP IN WELL			3788.72
RW - 10	09/29/08	3788.72	PUMP IN WELL			3788.72
RW - 10	10/06/08	3788.72	PUMP IN WELL			3788.72
RW - 10	10/27/08	3788.72	PUMP IN WELL			3788.72
RW - 10	11/03/08	3788.72	PUMP IN WELL			3788.72
RW - 10	11/10/08	3788.72	PUMP IN WELL			3788.72
RW - 10	11/17/08	3788.72	PUMP IN WELL			3788.72
RW - 10	11/25/08	3788.72	60.03	67.27	0.24	3721.65
RW - 11	02/27/08	3788.43	59.31	67.41	8.10	3727.91
RW - 11	06/03/08	3788.43	59.48	67.85	8.37	3727.69
RW - 11	08/25/08	3788.43	PUMP IN WELL			3788.43
RW - 11	09/02/08	3788.43	PUMP IN WELL			3788.43
RW - 11	09/04/08	3788.43	59.60	68.12	8.52	3727.55
RW - 11	09/16/08	3788.43	PUMP IN WELL			3788.43
RW - 11	09/23/08	3788.43	PUMP IN WELL			3788.43
RW - 11	09/29/08	3788.43	PUMP IN WELL			3788.43
RW - 11	10/06/08	3788.43	PUMP IN WELL			3788.43
RW - 11	10/27/08	3788.43	PUMP IN WELL			3788.43
RW - 11	11/03/08	3788.43	PUMP IN WELL			3788.43
RW - 11	11/10/08	3788.43	PUMP IN WELL			3788.43
RW - 11	11/17/08	3788.43	PUMP IN WELL			3788.43
RW - 11	11/25/08	3788.43	59.64	68.23	8.59	3727.50

Elevations based on the North American Vertical Datum of 1929

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

TABLE 2

2008 - CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.  
 DARR ANGEL #1  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-007

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		METHODS: SW 846-8260b				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 1	02/27/08			Not Sampled Due to PSH in Well				
MW - 1	06/03/08			Not Sampled Due to PSH in Well				
MW - 1	09/04/08			Not Sampled Due to PSH in Well				
MW - 1	11/24/08	21.00	14.70	<b>5.240</b>	<b>2.880</b>	0.675	<b>2.17</b>	
MW - 2	02/27/08			Not Sampled Due to PSH in Well				
MW - 2	06/03/08			Not Sampled Due to PSH in Well				
MW - 2	09/04/08			Not Sampled Due to PSH in Well				
MW - 2	11/24/08	8.58	<5.00	<b>0.630</b>	<b>0.926</b>	0.330	<b>1.06</b>	
MW - 3	02/27/08			Not Sampled Due to PSH in Well				
MW - 3	06/03/08			Not Sampled Due to PSH in Well				
MW - 3	09/04/08			Not Sampled Due to PSH in Well				
MW - 3	11/24/08	10.50	6.41	<b>0.0483</b>	0.0826	0.642	<b>1.51</b>	
MW - 4	02/27/08			Not Sampled on Current Sample Schedule				
MW - 4	06/03/08			Not Sampled on Current Sample Schedule				
MW - 4	09/04/08			Not Sampled on Current Sample Schedule				
MW - 4	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 5	02/27/08			Not Sampled Due to PSH in Well				
MW - 5	06/03/08			Not Sampled Due to PSH in Well				
MW - 5	09/04/08			Not Sampled Due to PSH in Well				
MW - 5	11/24/08	16.20	65.90	<b>1.620</b>	<b>1.800</b>	0.556	<b>1.88</b>	
MW - 6	02/27/08			Not Sampled Due to PSH in Well				
MW - 6	06/03/08			Not Sampled Due to PSH in Well				
MW - 6	09/04/08			Not Sampled Due to PSH in Well				
MW - 6	11/24/08			<b>1.800</b>	0.0951	0.253	0.443	
MW - 7	02/27/08			Not Sampled on Current Sample Schedule				
MW - 7	06/03/08			<0.001	<0.001	<0.001	<0.001	
MW - 7	09/04/08			Not Sampled on Current Sample Schedule				
MW - 7	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 8	02/27/08			Not Sampled Due to PSH in Well				
MW - 8	06/03/08			Not Sampled Due to PSH in Well				
MW - 8	09/04/08			Not Sampled Due to PSH in Well				
MW - 8	11/24/08	<20.0	65.50	<b>2.770</b>	<b>2.960</b>	<b>0.948</b>	<b>3.19</b>	

TABLE 2

## 2008 - CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.  
DARR ANGEL #1  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-007

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		METHODS: SW 846-8260b				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 9	02/27/08			Not Sampled Due to PSH in Well				
MW - 9	06/03/08			Not Sampled Due to PSH in Well				
MW - 9	09/04/08			Not Sampled Due to PSH in Well				
MW - 9	11/24/08	16.00	28.70	<b>2.460</b>	<b>1.890</b>	0.546	<b>1.63</b>	
MW - 10	02/27/08			Not Sampled Due to PSH in Well				
MW - 10	06/03/08			Not Sampled Due to PSH in Well				
MW - 10	09/04/08			Not Sampled Due to PSH in Well				
MW - 10	11/24/08	27.20	17.40	<b>3.180</b>	<b>2.270</b>	<b>1.040</b>	<b>2.86</b>	
MW - 11	02/27/08			Not Sampled on Current Sample Schedule				
MW - 11	06/03/08			Not Sampled on Current Sample Schedule				
MW - 11	09/04/08			Not Sampled on Current Sample Schedule				
MW - 11	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 12	02/27/08			<b>0.822</b>	<0.01	<0.01	<0.01	
MW - 12	06/03/08			<b>0.494</b>	<0.005	<0.005	<0.005	
MW - 12	09/04/08			<b>0.916</b>	<0.005	<0.005	<0.005	
MW - 12	11/24/08			<b>0.698</b>	<0.01	<0.01	<0.01	
MW - 13	02/27/08			Not Sampled Due to PSH in Well				
MW - 13	06/03/08			Not Sampled Due to PSH in Well				
MW - 13	09/04/08			Not Sampled Due to PSH in Well				
MW - 13	11/24/08			Not Sampled Due to Insufficient Water in Well				
MW - 14	02/27/08			Not Sampled Due to PSH in Well				
MW - 14	06/03/08			Not Sampled Due to PSH in Well				
MW - 14	09/04/08			Not Sampled Due to PSH in Well				
MW - 14	11/24/08			Not Sampled Due to Insufficient Water in Well				
MW - 15	02/27/08			Not Sampled on Current Sample Schedule				
MW - 15	06/03/08			Not Sampled on Current Sample Schedule				
MW - 15	09/04/08			Not Sampled on Current Sample Schedule				
MW - 15	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 16	02/27/08			Not Sampled on Current Sample Schedule				
MW - 16	06/03/08			Not Sampled on Current Sample Schedule				
MW - 16	09/04/08			Not Sampled on Current Sample Schedule				
MW - 16	11/24/08			<0.001	<0.001	<0.001	<0.001	

TABLE 2

## 2008 - CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.  
DARR ANGEL #1  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER AP-007

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		METHODS: SW 846-8260b				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 17	02/27/08			<0.001	<0.001	<0.001	<0.001	
MW - 17	06/03/08			<0.001	<0.001	<0.001	<0.001	
MW - 17	09/04/08			<0.001	<0.001	<0.001	<0.001	
MW - 17	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 18	02/27/08			Not Sampled on Current Sample Schedule				
MW - 18	06/03/08			Not Sampled on Current Sample Schedule				
MW - 18	09/04/08			Not Sampled on Current Sample Schedule				
MW - 18	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 19	02/27/08			<0.001	<0.001	<0.001	<0.001	
MW - 19	06/03/08			<0.001	<0.001	<0.001	<0.001	
MW - 19	09/04/08			<0.001	<0.001	<0.001	<0.001	
MW - 19	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 20	02/27/08			Not Sampled on Current Sample Schedule				
MW - 20	06/03/08			Not Sampled on Current Sample Schedule				
MW - 20	09/04/08			Not Sampled on Current Sample Schedule				
MW - 20	11/24/08			<0.001	<0.001	<0.001	<0.001	
MW - 21	02/27/08			<0.001	<0.001	<0.001	<0.001	
MW - 21	06/03/08			<0.001	<0.001	<0.001	<0.001	
MW - 21	09/04/08			<0.001	<0.001	<0.001	<0.001	
MW - 21	11/24/08			<0.001	<0.001	<0.001	<0.001	
RW - 1	02/27/08			Not Sampled Due to PSH in Well				
RW - 1	06/03/08			Not Sampled Due to PSH in Well				
RW - 1	09/04/08			Not Sampled Due to PSH in Well				
RW - 1	11/24/08			Not Sampled Due to Insufficient Water in Well				
RW - 2	02/27/08			Not Sampled Due to PSH in Well				
RW - 2	06/03/08			Not Sampled Due to PSH in Well				
RW - 2	09/04/08			Not Sampled Due to PSH in Well				
RW - 2	11/24/08			Not Sampled Due to Insufficient Water in Well				
RW - 3	02/27/08			Not Sampled Due to PSH in Well				
RW - 3	06/03/08			Not Sampled Due to PSH in Well				
RW - 3	09/04/08			Not Sampled Due to PSH in Well				
RW - 3	11/24/08	29.1	166.0	5.860	4.120	1.140	3.720	

TABLE 2

2008 - CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.  
 DARR ANGEL #1  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER AP-007

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		METHODS: SW 846-8260b				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
RW - 4	02/27/08			Not Sampled Due to PSH in Well				
RW - 4	06/03/08			Not Sampled Due to PSH in Well				
RW - 4	09/04/08			Not Sampled Due to PSH in Well				
RW - 4	11/24/08			Not Sampled Due to Insufficient Water in Well				
RW - 5	02/27/08			Not Sampled Due to PSH in Well				
RW - 5	06/03/08			Not Sampled Due to PSH in Well				
RW - 5	09/04/08			Not Sampled Due to PSH in Well				
RW - 5	11/24/08	20.7	38.1	<b>3.430</b>	<b>2.090</b>	0.722	<b>2.270</b>	
RW - 6	02/27/08			Not Sampled Due to PSH in Well				
RW - 6	06/03/08			Not Sampled Due to PSH in Well				
RW - 6	09/04/08			Not Sampled Due to PSH in Well				
RW - 6	11/24/08	6.51	<b>1030</b>	<b>1.690</b>	0.251	0.233	<b>0.929</b>	
RW - 7	02/27/08			Not Sampled Due to PSH in Well				
RW - 7	06/03/08			Not Sampled Due to PSH in Well				
RW - 7	09/04/08			Not Sampled Due to PSH in Well				
RW - 7	11/24/08	35.2	<b>506.0</b>	<b>5.340</b>	<b>4.360</b>	<b>1.070</b>	<b>3.640</b>	
RW - 8	02/27/08			Not Sampled Due to PSH in Well				
RW - 8	06/03/08			Not Sampled Due to PSH in Well				
RW - 8	09/04/08			Not Sampled Due to PSH in Well				
RW - 8	11/24/08	11.9	<b>132.0</b>	<b>6.370</b>	<b>2.420</b>	<b>3.150</b>	<b>10.50</b>	
RW - 9	02/27/08			Not Sampled Due to PSH in Well				
RW - 9	06/03/08			Not Sampled Due to PSH in Well				
RW - 9	09/04/08			Not Sampled Due to PSH in Well				
RW - 9	11/24/08	<b>143</b>	<b>577</b>	<b>4.400</b>	<b>3.260</b>	<b>3.470</b>	<b>10.80</b>	
RW - 10	02/27/08			Not Sampled Due to PSH in Well				
RW - 10	06/03/08			Not Sampled Due to PSH in Well				
RW - 10	09/04/08			Not Sampled Due to PSH in Well				
RW - 10	11/24/08			Not Sampled Due to Insufficient Water in Well				
RW - 11	02/27/08			Not Sampled Due to PSH in Well				
RW - 11	06/03/08			Not Sampled Due to PSH in Well				
RW - 11	09/04/08			Not Sampled Due to PSH in Well				
RW - 11	11/24/08	18.20	37.00	<b>1.720</b>	<b>1.540</b>	0.640	<b>2.04</b>	

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.  
DARR ANGELL #1

LEA COUNTY, NEW MEXICO  
NMOCID REFERENCE NUMBER AP-007

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[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.	MW-1	11/24/08	<0.000183	0.00485	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.0167	0.0004 mg/L	0.122	0.0205	<0.000183	0.173	0.250	0.0106	
	MW-2	11/24/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00255	<0.000183	0.0285	0.00282	<0.000183	0.0234	0.0302	0.00174	
	MW-3	11/24/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00377	<0.000184	0.0601	0.0037	<0.000184	0.0455	0.0625	0.00292	
	MW-4	11/24/08	<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	
	MW-5	11/24/08	<0.000917	0.00806	0.0424	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0326	<0.000917	0.136	0.0427	<0.000917	0.261	0.372	0.0201	
	MW-6	11/24/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00321	<0.000184	0.0217	0.00322	<0.000184	0.0339	0.015	0.00251	
	MW-7	11/24/08	<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	
	MW-8	11/25/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.135	<0.000184	0.529	0.188	<0.000184	1.26	1.86	0.0861
	MW-9	11/25/08	<0.000184	0.00163	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00172	<0.000184	0.00846	<0.000184	0.0641	0.0104	<0.000184	0.0851	0.112	0.00578
	MW-10	11/24/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0382	<0.000922	0.212	0.0512	<0.000922	0.382	0.537	0.0286

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.

DARR ANGELL #1

LEA COUNTY, NEW MEXICO

NMOC REFERENCE NUMBER AP-007

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]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.																				
MW-11	11/24/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.0003 mg/L	<0.000185	<0.000185	<0.000185	0.0004 mg/L	0.03 mg/L	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
MW-12	11/24/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000696	<0.000183	<0.000183	0.000648	<0.000183	<0.000183	0.000372	<0.000183	0.00145
MW-15	11/24/08	<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	<0.000183	<0.000183
MW-16	11/24/08	<0.000185	<0.000185	0.000888	0.000959	0.000847	0.000814	0.00102	0.000879	0.000958	<0.000185	0.0013	0.000417	0.001	<0.000185	0.00076	0.0012	0.000216	0.000313	<0.000185
MW-17	11/24/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
MW-18	11/24/08	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	0.000216	0.000245	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187
MW-19	11/24/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-20	11/24/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-21	11/24/08	<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	<0.000183	<0.000183
RW-3	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0218	<0.000917	<0.000917	0.0966	<0.000917	0.400	0.129	<0.000917	0.888	1.31	0.0633

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.  
DARR ANGELL #1  
LEA COUNTY, NEW MEXICO

NMOC REFERENCE NUMBER AP-007

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[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.																			
RW-5	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0218	<0.000917	0.132	0.0273	<0.000917	0.17	0.254	0.013	
RW-6	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0286	<0.000917	0.126	<0.000917	0.564	0.167	<0.000917	1.33	1.93	0.0751	
RW-7	11/25/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0254	<0.000922	0.106	<0.000922	0.477	0.143	<0.000922	1.07	1.55	0.0709	
RW-8	11/25/08	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	<0.00459	0.342	<0.00459	1.17	0.436	<0.00459	2.87	4.15	0.214	
RW-9	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.064	<0.000917	0.294	0.0838	<0.000917	0.587	0.841	0.0448	
RW-11	11/25/08	0.0062	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0105	<0.000917	0.0426	<0.000917	0.145	0.0571	<0.000917	0.322	0.441	0.0269	

**APPENDICES**

**APPENDIX A:  
Release Notification and Corrective Action  
(Form C-141)**

DISTRICT  
P.O. Box 1990, Hobbs, NM 88241-1990  
DISTRICT  
E.O. Deverez DO, Artesia, NM 88211-0719  
DISTRICT  
1000 E. Broadway Rd, Artesia, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

SUBMIT 2 COPIES TO  
APPROPRIATE DISTRICT  
OFFICE IN ACCORDANCE  
WITH RULE 116 PRINTED  
ON BACK SIDE OF FORM

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

OPERATOR <i>EOTT Energy Pipeline</i>					ADDRESS <i>PO Box 1660 Midland</i>		TELEPHONE # <i>915/6872640</i>
REPORT OF	FIRE	BREAK <input checked="" type="checkbox"/>	SPILL	LEAK	BLOWOUT <input checked="" type="checkbox"/>	OTHER*	
TYPE OF FACILITY	DRUG WELL	PROD WELL	TANK BTRY	PIPE LINE <input checked="" type="checkbox"/>	GASO PLNT	OIL RFY	OTHER*

FACILITY NAME \_\_\_\_\_  
 LOCATION OF FACILITY \_\_\_\_\_  
 Qc/Qr Sct. or Footage \_\_\_\_\_ SEC. *11* TWP. *15S* RGE. *37E* COUNTY *Lea*  
 DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK *22 miles E of Lovington Hwy Plains Hwy*  
 DATE AND HOUR OF OCCURRENCE *5/1/97 2:00 PM* DATE AND HOUR OF DISCOVERY *Same*  
 WAS IMMEDIATE NOTICE GIVEN? YES  NO  NOT REQUIRED  IF YES, TO WHOM *Karen*  
 BY *Lennah Frost* DATE AND HOUR *5-2-97 10AM*  
 TYPE OF FLUID LOST *Crude Oil* QUANTITY OF LOSS *25 bbls* VOLUME RECOVERED *15 bbls*  
 DID ANY FLUIDS REACH A WATERCOURSE? YES  NO  QUANTITY \_\_\_\_\_  
 IF YES, DESCRIBE FULLY\*\* \_\_\_\_\_

DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN\*\*  
*Internal Corrosion - Clamped & will replace pipe*

DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN\*\*  
*Area is rocky. Will be excavated & disposed of at Goo Yea Landfarm*

DESCRIPTION OF AREA	FARMING	GRAZING <input checked="" type="checkbox"/>	URBAN	OTHER*			
SURFACE CONDITIONS	SANDY	SANDY LOAM	CLAY	ROCKY <input checked="" type="checkbox"/>	WET	DRY	SNOW

DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)\*\*  
*Clear*

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
 SIGNED *Lennah Frost* PRINTED NAME *Lennah Frost*  
 AND TITLE *ENV Eng* DATE *5-5-97*

\*SPECIFY \*\*ATTACH ADDITIONAL SHEETS IF NECESSARY