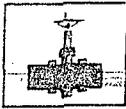


1R - 951

# Annual GW Mon. REPORTS

DATE:

2010



PLAINS  
ALL AMERICAN

RECEIVED

March 23, 2011

MAR 26 2011

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

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

Re: Plains All American – 2010 Annual Monitoring Reports  
20 Sites in Lea County, New Mexico

Dear Mr. Hansen:

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

34 Junc. to Lea Sta.	1R-0386 ✓	Section 21, Township 20 South, Range 37 East, Lea County
34 Junction South	1R-0456 ✓	Section 02, Township 17 South, Range 36 East, Lea County
Bob Durham	AP-0016 ✓	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #1	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
Darr Angell #2	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
		Section 14, Township 15 South, Range 37 East, Lea County
Darr Angell #4	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
		Section 02, Township 15 South, Range 37 East, Lea County
Denton Station	1R-0234 ✓	Section 14, Township 15 South, Range 37 East, Lea County
HDO-90-23	AP-009 ✓	Section 06, Township 20 South, Range 37 East, Lea County
LF-59	1R-0103	Section 32, Township 19 South, Range 37 East, Lea County
Monument 2	1R-0110	Section 06, Township 20 South, Range 37 East, Lea County
		Section 07, Township 20 South, Range 37 East, Lea, County
Monument 10	1R-0119	Section 30, Township 19 South, Range 37 East, Lea County
Monument 17	1R-123	Section 29, Township 19 South, Range 37 East, Lea County
Monument 18	1R-0124	Section 07, Township 20 South, Range 37 East, Lea County
S. Mon. Gath. Sour.	1R-951	Section 05, Township 20 South, Range 37 East, Lea County
SPS-11	GW-0140 ✓	Section 18, Township 18 South, Range 36 East, Lea County
Texaco Skelly F	1R-0420	Section 11, Township 21 South, Range 37 East, Lea County
TNM 97-04	GW-0294 ✓	Section 11, Township 16 South, Range 35 East, Lea County
TNM 97-17	AP-017 ✓	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	AP-0013 ✓	Section 28, Township 20 South, Range 37 East, Lea County
TNM 98-05A	AP-12	Section 26, Township 21 South, Range 37 East, Lea County



PLAINS  
ALL AMERICAN

Nova Safety and Environmental (Nova) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Nova personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

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

Sincerely,

Jason Henry  
Remediation Coordinator  
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures



**2010  
ANNUAL MONITORING REPORT**

**SOUTH MONUMENT GATHERING SOUR**  
NW ¼, NE ¼, SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS # 2001-11193  
NMOCD Reference # 1R-951

PREPARED FOR:

**PLAINS MARKETING, L.P.**  
333 Clay Street, Suite 1600  
Houston, Texas 77002

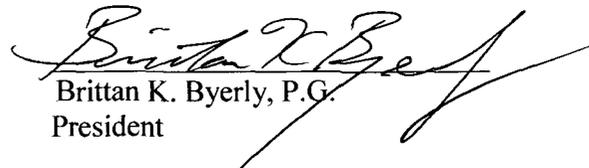


PREPARED BY:

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

**March 2011**

  
Ronald K. Rounsaville  
Senior Project Manager

  
Brittan K. Byerly, P.G.  
President

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Figure 2A – Inferred Groundwater Gradient Map February 1, 2010

2B – Inferred Groundwater Gradient Map May 4, 2010

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3A – Groundwater Concentration and Inferred PSH Extent Map February 1, 2010

3B – Groundwater Concentration and Inferred PSH Extent Map May 4, 2010

3C – Groundwater Concentration and Inferred PSH Extent Map August 3, 2010

3D – Groundwater Concentration and Inferred PSH Extent Map November 3, 2010

### TABLES

Table 1 – 2010 Groundwater Elevation Data

Table 2 – 2010 Concentrations of BTEX and TPH in Groundwater

Table 3 – 2010 Concentrations of PAH in Groundwater

### APPENDICES

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

### ENCLOSED ON DATA DISK

2010 Annual Monitoring Report

2010 Tables 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Data

2010 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

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

## 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. The South Monument Gathering Sour Site, which was formally the responsibility of EOTT Energy, 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 2010 only. However, historic data tables as well as 2010 laboratory analytical reports are provided on the enclosed data disk. A Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each of four quarters in calendar year 2010 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

## SITE DESCRIPTION AND BACKGROUND INFORMATION

On November 20, 2001, EOTT Energy, Corp.(EOTT) reported a 1,200 barrel release of sour crude oil from a pipeline located approximately one half mile southwest of Monument, New Mexico. The site is located in the NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  , Section 5, Township 20 South, Range 37 East, Lea County, New Mexico. The initial response was conducted by Allstate Environmental Services (AES) in November 2001. According to AES's *Summary of Cleanup Activities and Site Delineation* (November 27 to December 12, 2001), on November 30, 2001, AES began excavating, stockpiling and transporting impacted soil to the C & C Landfarm. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. According to documentation prepared by AES, on November 30 and December 1, 2001, approximately 408 cubic yards (cy) of hydrocarbon impacted soil was transported to the landfarm. On December 5, 2001, excavation of the site ceased while EOTT and the landowner (Mr. Jimmy Cooper) entered into negotiations.

On March 3, 2005, NOVA, on behalf of Plains, collected excavation sidewall, floor, stockpile, and flow path soil samples. Stockpile and flow path soil samples were collected as five point composites collected at the surface as well as depths of three, six, twelve and eighteen inches below ground surface (bgs). Soil samples were collected at intervals of approximately 100 linear feet along the flow path and approximately one sample per three hundred square feet in the existing excavation bottom and existing stockpiles.

On July 25, 2006, four soil borings were advanced adjacent to or within the existing excavation to investigate the vertical and horizontal extent of hydrocarbon impact in these areas.

On September 13, 2006, a backhoe was utilized to excavate five investigation trenches along the reported crude oil flow path. The result of trenching activities in the flow path indicated hydrocarbon impact is present at depth, but limited to the lateral extent of the flow path.

On November 30 through December 4, 2006, nine additional soil borings were advanced and three groundwater monitoring wells were installed to further delineate the site. The results of drilling activities indicate hydrocarbon impacted soil is limited to areas immediately adjacent to the leak source and the subsequent flow path.

On August 2, 2010, soil excavation activities began to address the soil remediation at the leak source and flowpath areas. A Soil Closure Report documenting these activities will be submitted to the NMOCD in early 2011.

Currently, three monitor wells are located on site.

## **FIELD ACTIVITIES**

### **Groundwater Monitoring**

During the 2010 reporting period, measurable PSH or hydrocarbon sheen was not observed in any of the site monitor wells. The 2010 gauging data is provided in Table 1.

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule.

<b>Sampling Schedule</b>	
MW-1	Quarterly
MW-2	Quarterly
MW-3	Quarterly

The site monitor wells were gauged and sampled on February 1, May 4, August 3, and November 3, 2010. During each sampling event, sampled monitor wells were purged a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed utilizing measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D. Groundwater elevation data for 2010 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.009 feet/foot to the south-southwest as measured between monitor wells MW-2 and MW-1. The corrected groundwater elevation has ranged between 3,530.36 and 3,531.73 feet above mean sea level, in monitor wells MW-1 on August 3, 2010 and MW-2 on February 1, 2010, respectively.

## LABORATORY RESULTS

No measurable thicknesses of PSH were reported on any of the monitor wells during the reporting period.

Groundwater samples obtained during the quarterly sampling events of 2010 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was not conducted during the 2010 calendar year. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC standards will be sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2010 are summarized in Table 2 and the Historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2010 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

**Monitor well MW-1** is sampled on quarterly schedule and the analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1<sup>st</sup> and 2<sup>nd</sup> quarters to 0.140 mg/L during the 3<sup>rd</sup> quarter of 2010. Benzene concentrations were above NMOCD regulatory standard during the 3<sup>rd</sup> and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters to 0.0109 mg/L during the 3<sup>rd</sup> quarter of 2010. Ethylbenzene concentrations were below NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters to 0.1100 mg/L during the 3<sup>rd</sup> quarter of 2010. Xylene concentrations were below NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-2** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters to 0.0047 mg/L during the 4<sup>th</sup> quarter of 2010. Benzene concentrations were below NMOCD regulatory standard 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. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last nine consecutive quarters. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-3** is sampled on a quarterly schedule and analytical results indicate benzene, toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last eighteen consecutive quarters. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

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 annual monitoring period of 2010. Currently, there are three groundwater monitor wells (MW-1 through MW-3) on-site. The most recent Groundwater Gradient Map, Figure 2D indicates a general gradient of approximately 0.009 feet/foot to the south-southwest.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2010 monitoring period indicates benzene is the only BTEX constituent exhibiting concentrations above NMOCD regulatory standards. Benzene concentrations exceeding regulatory guidelines were exhibited in monitor well MW-1 during the 3<sup>rd</sup> and 4<sup>th</sup> quarterly sampling events. BTEX constituent concentrations were below NMOCD regulatory standard in the remaining monitor wells during the 2010 reporting period. PAH analysis was not conducted as part of the quarterly sampling event.

## **ANTICIPATED ACTIONS**

Quarterly monitoring and groundwater sampling will continue in 2011. A 2011 annual monitoring report will be submitted to the NMOCD by April 1, 2012.

A Soil Closure Report will be submitted to the NMOCD following the completion of excavation and remediation activities.

## **LIMITATIONS**

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

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

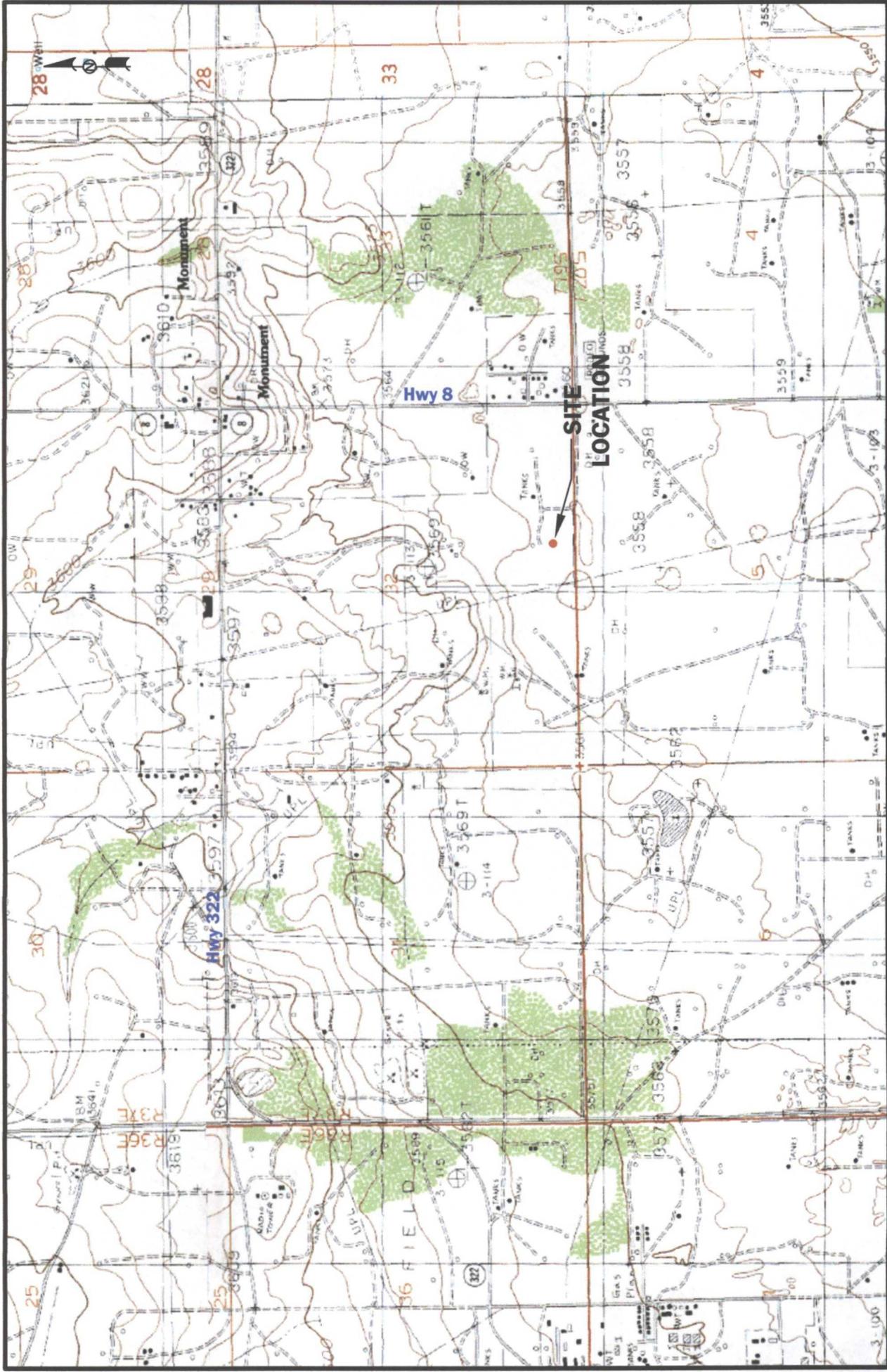
This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

## 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:      Geoffrey R. Leking  
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



LEGEND:



Distance in Feet

**Figure 1**  
**Site Location Map**  
**South Monument (6) Gathering Station**  
**Plains Marketing, L.P.**  
**Lea County, NM**

2057 Commerce Drive  
 Midland, Texas 79703  
 432.520.7720

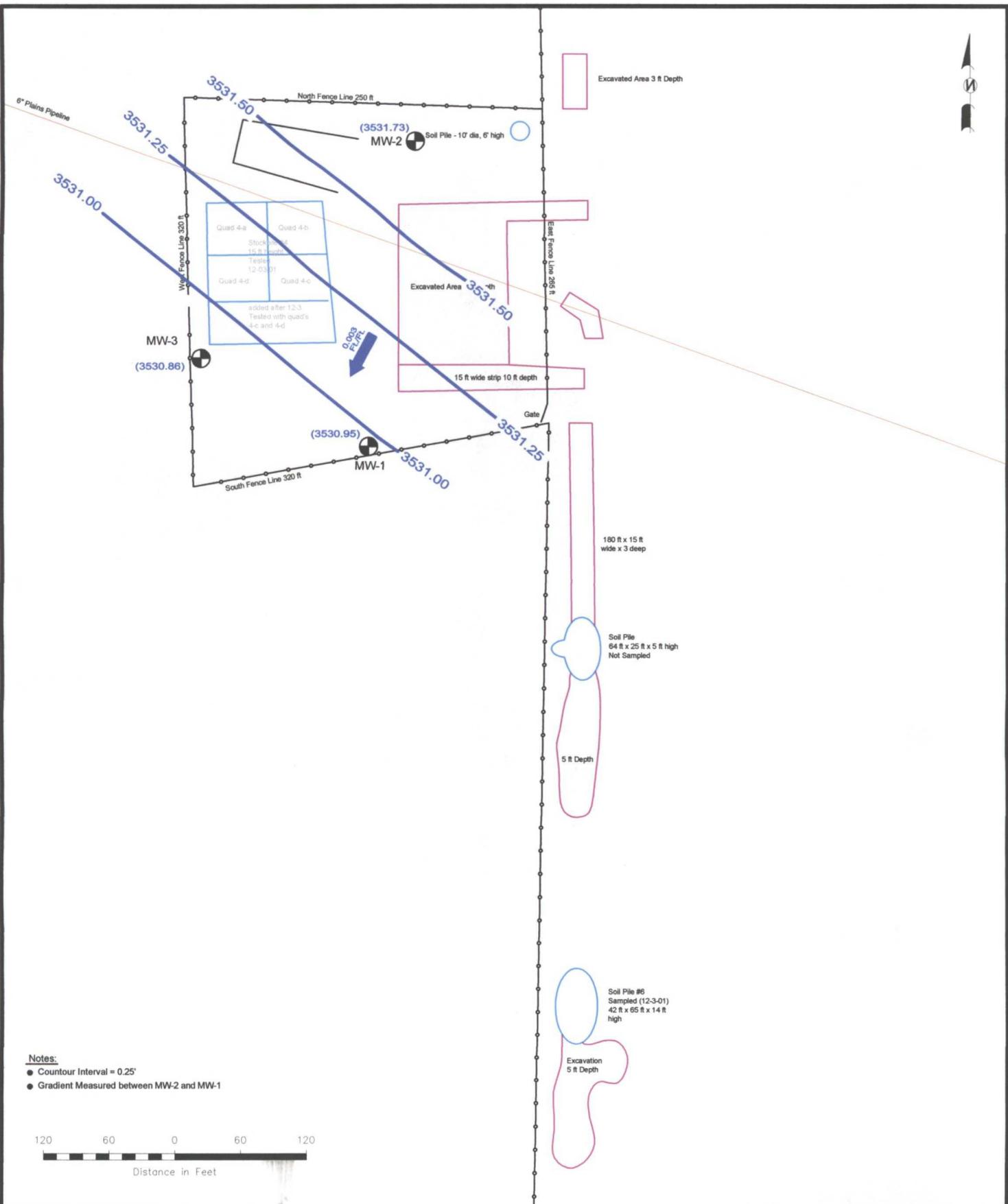


www.novasafetyandenvironmental.com

February 28, 2011 | Scale: 1" = 2000' | CAD By: TA | Checked By: RKR

LATITUDE & LONGITUDE COORDINATES: N 32° 36' 38.41" W 103° 16' 22.16"

Plains EMS # 2001-11193  
 NMOCD Reference # RP-951



- Notes:**
- Contour Interval = 0.25'
  - Gradient Measured between MW-2 and MW-1

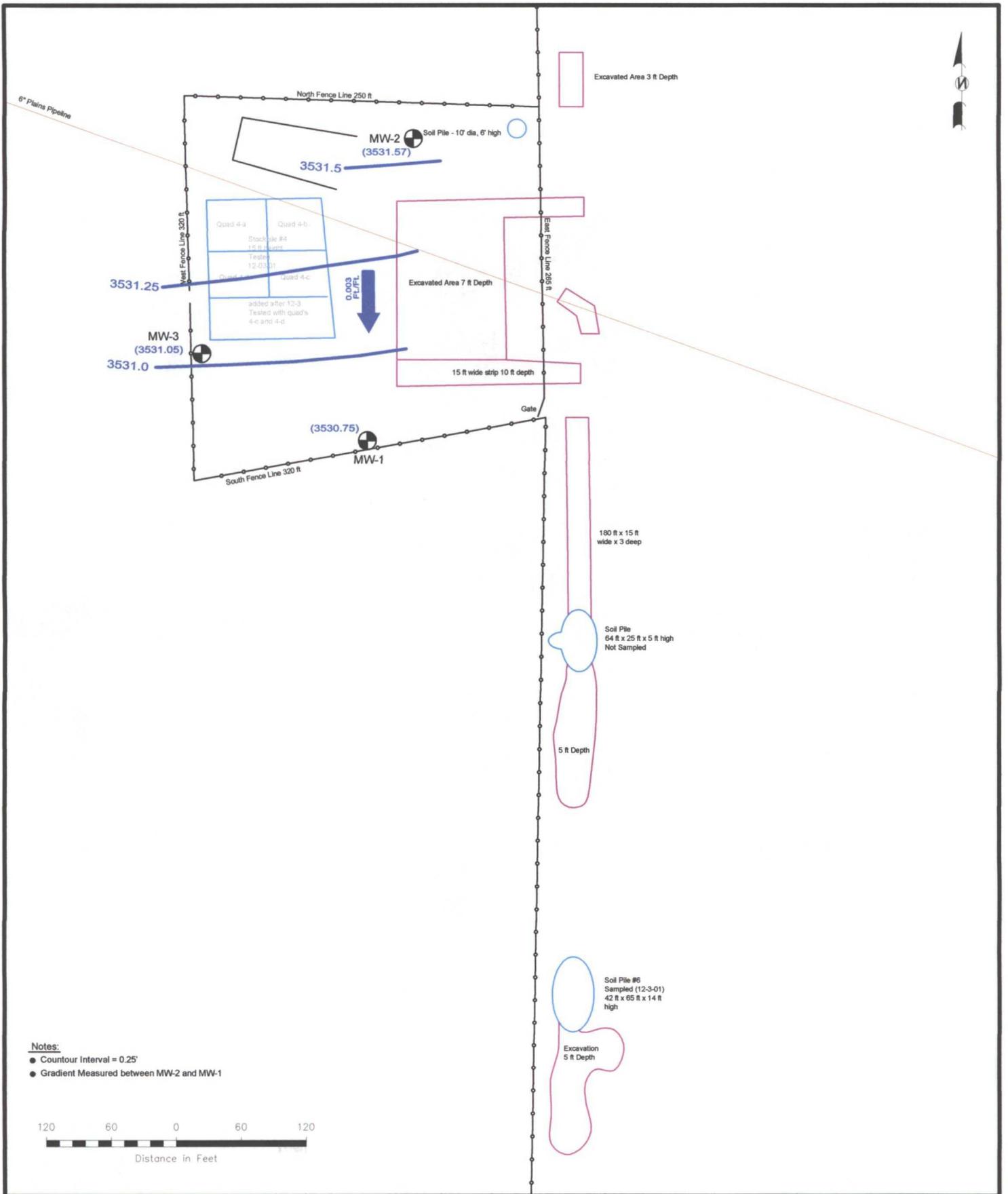


LEGEND:	
	Pipeline
	Monitor Well Location
	Fence
	Excavation
	Stockpile
	(3791.89) Groundwater Elevation (Feet)
	Groundwater Elevation Contour Line
	Groundwater Direction and Magnitude

**Figure 2A**  
**Inferred Groundwater**  
**Gradient Map**  
 (02/01/10)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**

	Scale 1" = 120'	Prep By: SAT	Checked By: RKR
	April 26, 2010		



LEGEND:

- Pipeline
- Fence
- Excavation
- Stockpile
- Monitor Well Location
- Groundwater Elevation (Feet)
- Groundwater Elevation Contour Line
- Groundwater Direction and Magnitude

Figure 2B  
Inferred Groundwater  
Gradient Map  
(05/04/2010)  
Plains Marketing, L.P.  
Plains EMS #2001-11193  
South Monument  
Gathering Sour  
Monument, NM

NOVA Safety and Environmental

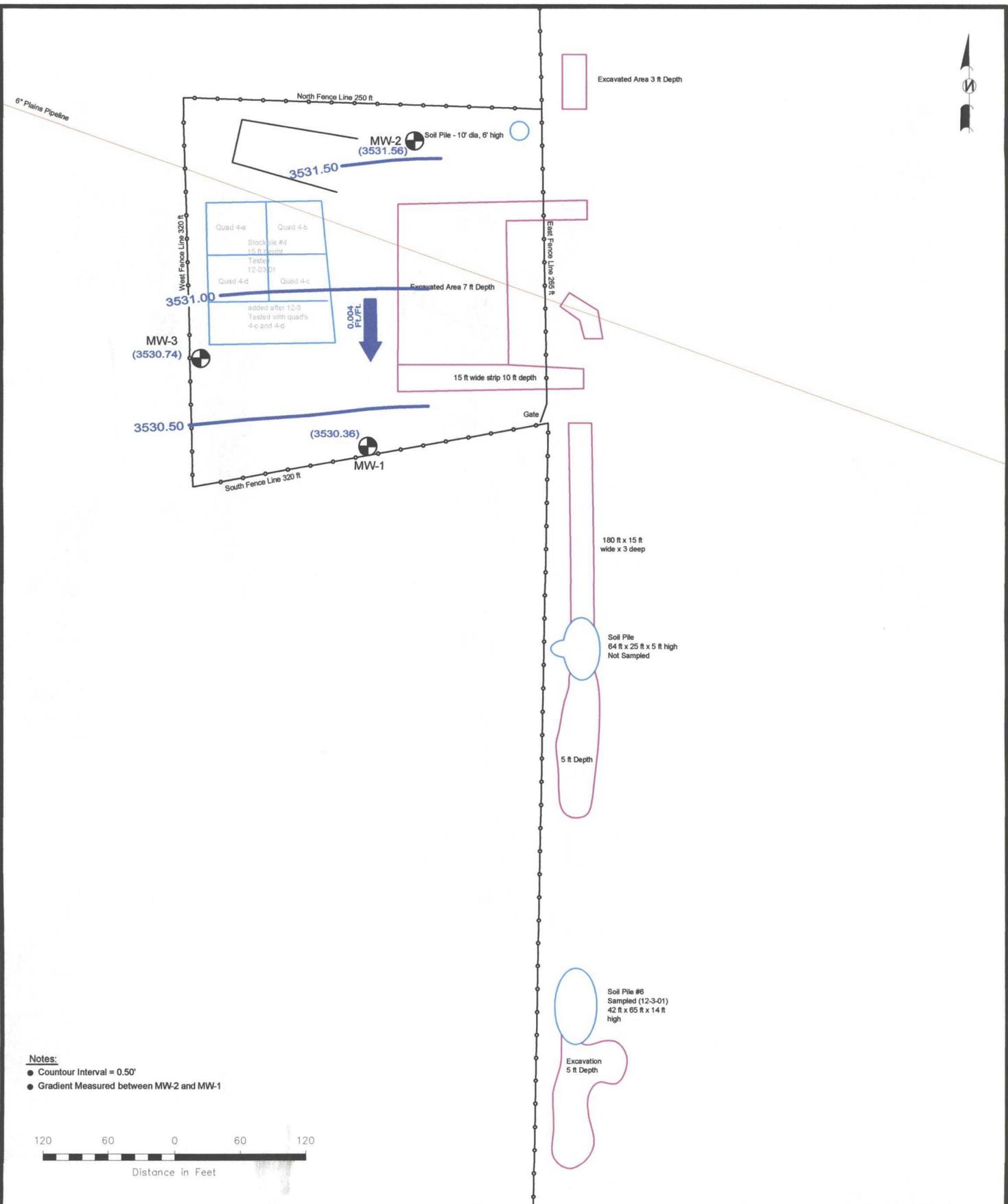


Scale 1" = 120'

Prep By: SAT

Checked By: RKR

June 09, 2010



**Notes:**  
 ● Contour Interval = 0.50'  
 ● Gradient Measured between MW-2 and MW-1



**LEGEND:**

	Pipeline		Monitor Well Location
	Fence		Groundwater Elevation (Feet)
	Excavation		Groundwater Elevation Contour Line
	Stockpile		Groundwater Direction and Magnitude

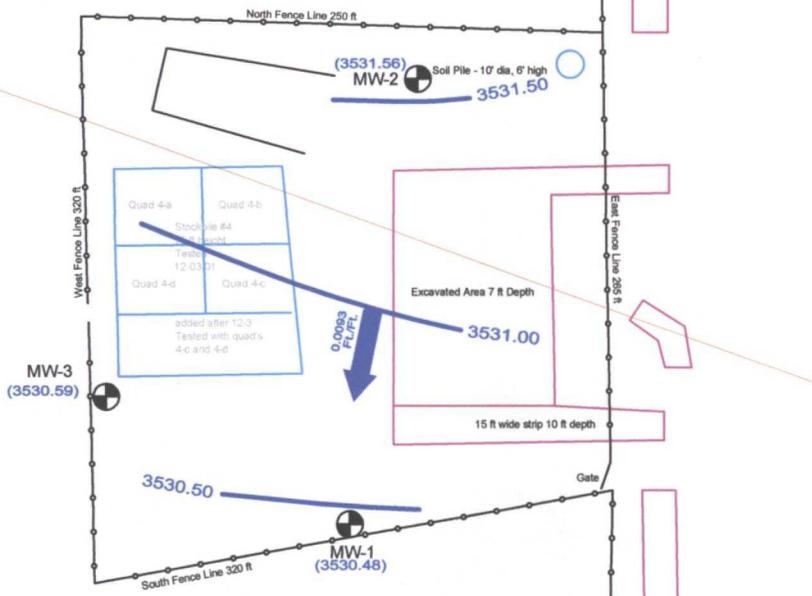
**Figure 2C**  
**Inferred Groundwater**  
**Gradient Map**  
 (08/03/2010)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**

	Scale 1" = 120'	Prep By: TA	Checked By: RKR
	September 14, 2010		



6" Plains Pipeline



**Notes:**

- Contour Interval = 0.50'
- Gradient Measured between MW-2 and MW-1



**LEGEND:**

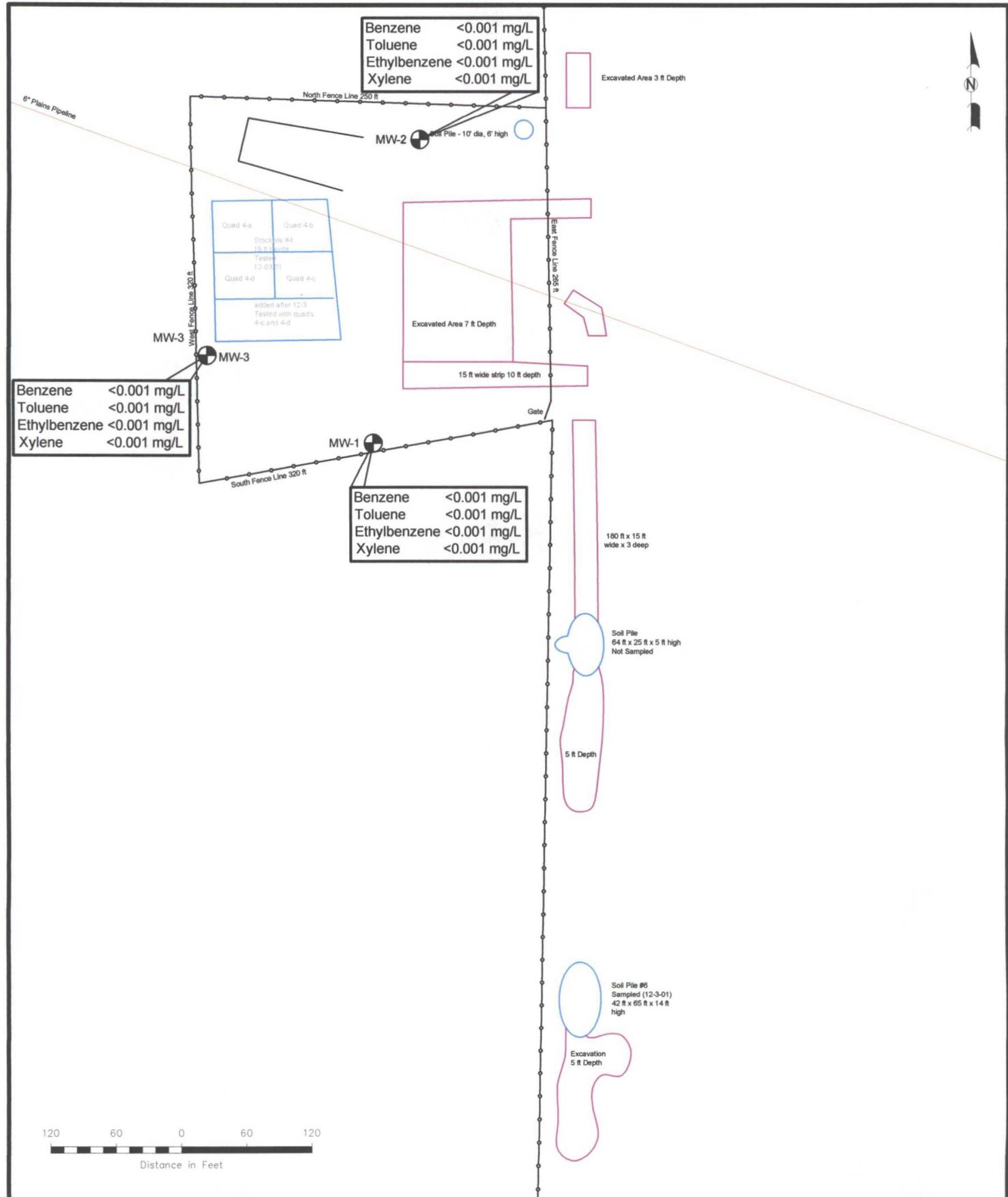
- Pipeline
- Fence
- Excavation
- Stockpile
- Monitor Well Location
- Grounwater Elevation (Feet)
- Grounwater Elevation Contour Line
- Grounwater Direction and Magnitude

Figure 2D  
Inferred Groundwater  
Gradient Map  
(11/03/2010)  
Plains Marketing, L.P.  
Plains EMS #2001-11193  
South Monument  
Gathering Sour  
Monument, NM

NOVA Safety and Environmental



Scale 1" = 120'	Prep By: TA	Checked By: MKG
December 14, 2010		



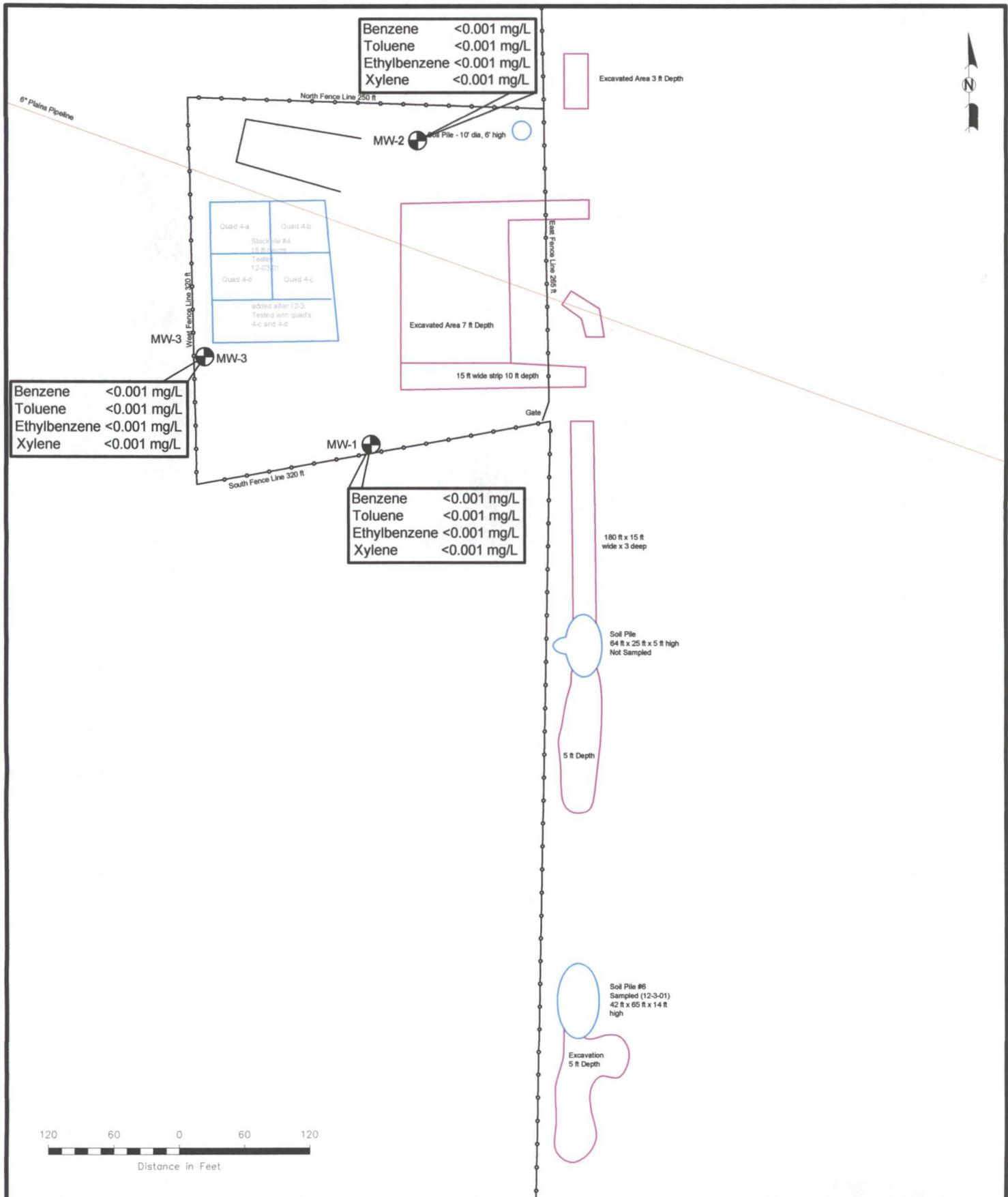
**LEGEND:**

	Monitor Well Location		
	Pipeline	(NS)	Not Sampled
	Fence	<math><0.001</math>	Constituent Concentration (mg/L)
	Excavation		
	Stockpile		

**Figure 3A**  
**Groundwater Concentration**  
**and Inferred PSH Extent Map**  
 (02/01/10)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**

 safety and environmental	Scale 1" = 120'	CAD By: SAT	Checked By: RKR
	April 26, 2010		



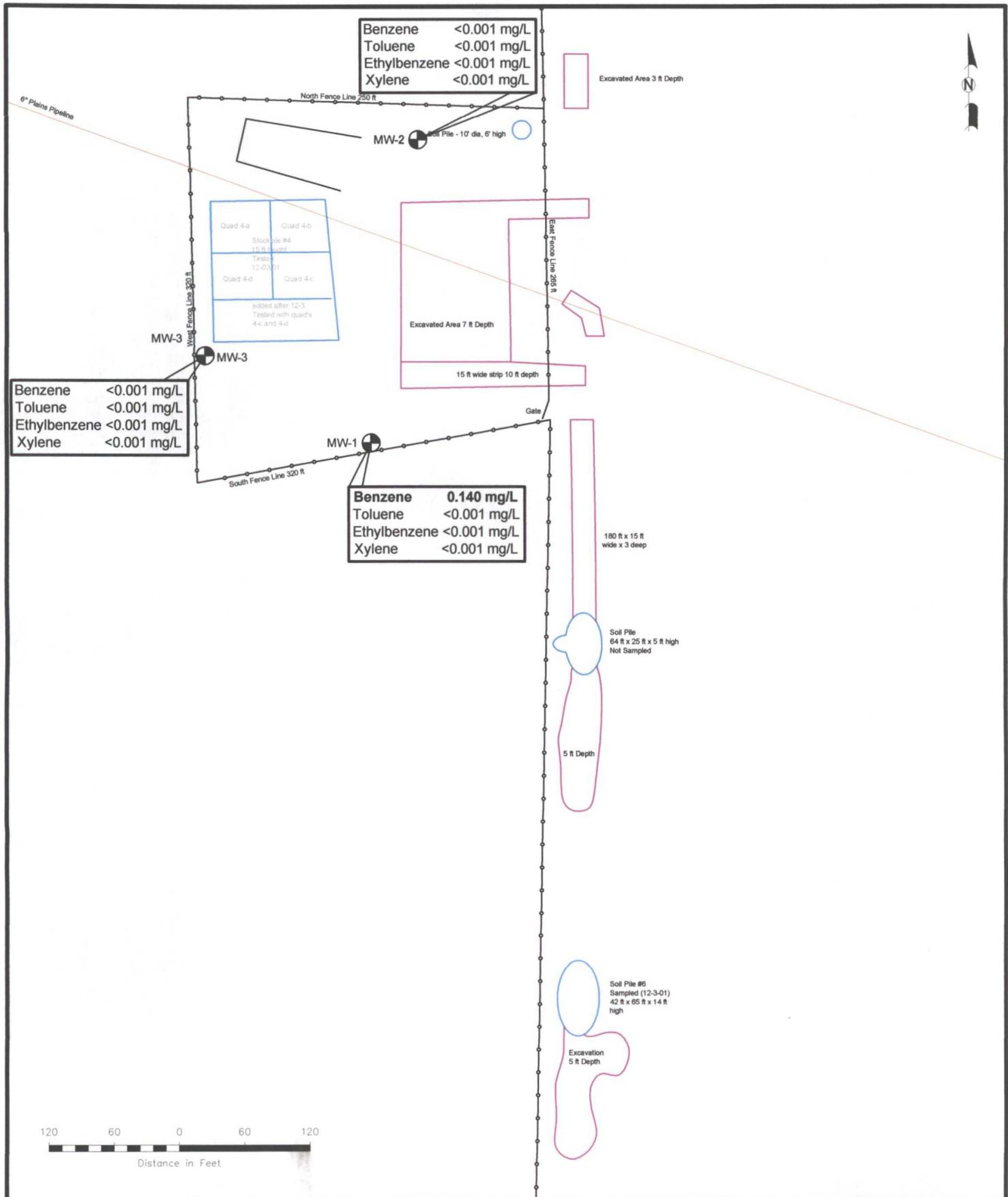
**LEGEND:**

	Monitor Well Location	(NS)	Not Sampled
	Pipeline	<0.001	Constituent Concentration (mg/L)
	Fence		
	Excavation		
	Stockpile		

**Figure 3B**  
 Groundwater Concentration  
 and Inferred PSH Extent Map  
 (05/04/2010)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**

Scale 1" = 120'	CAD By: SAT	Checked By: RKR
June 09, 2010		



**LEGEND:**

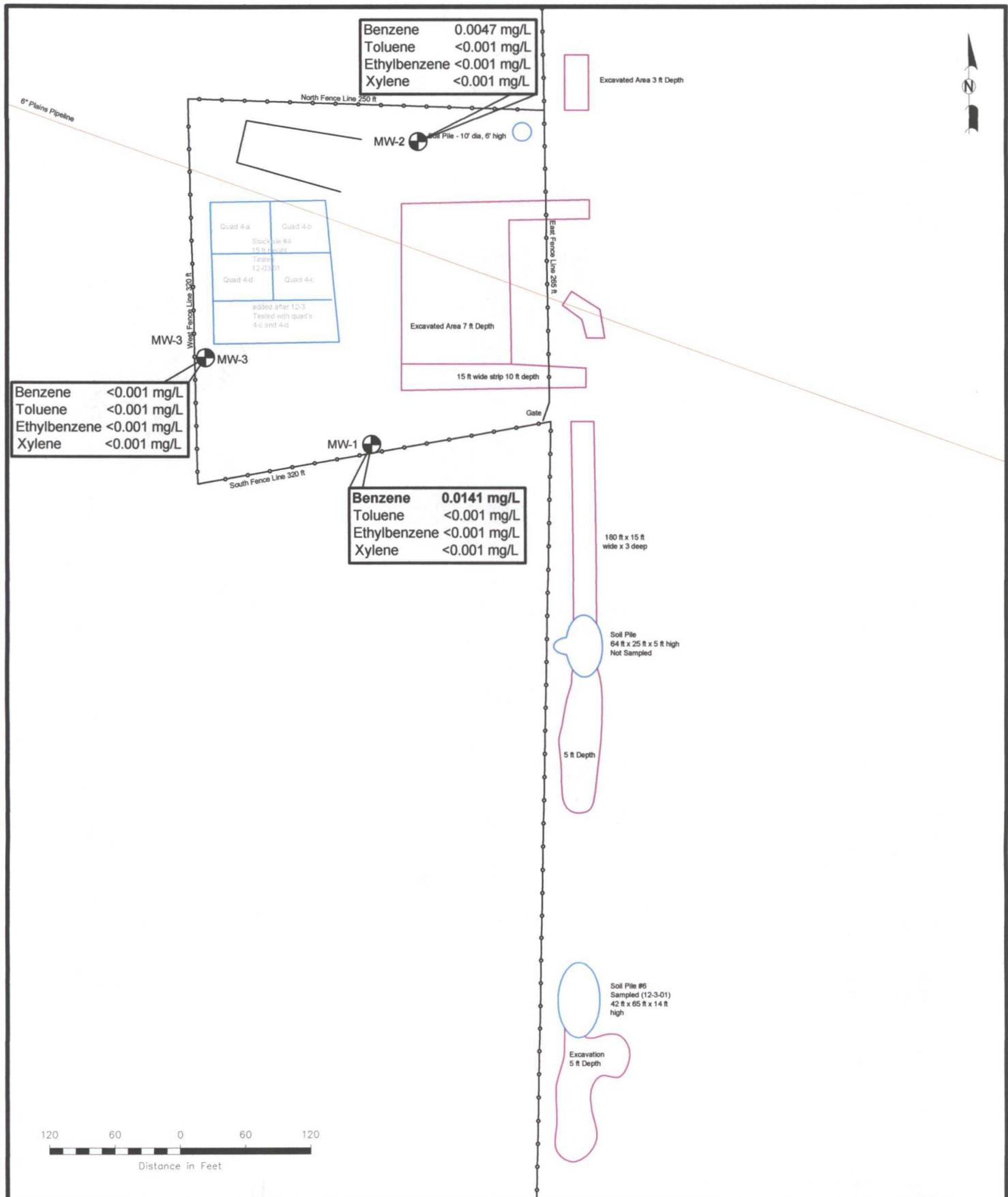
	Monitor Well Location	(NS)	Not Sampled
	Pipeline	<0.001	Constituent Concentration (mg/L)
	Fence		
	Excavation		
	Stockpile		

**Figure 3C**  
 Groundwater Concentration  
 and Inferred PSH Extent Map  
 (08/03/2010)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**

**NOVA**  
 safety and environmental

Scale 1" = 120'	CAD By: TA	Checked By: RKR
September 14, 2010		



**LEGEND:**

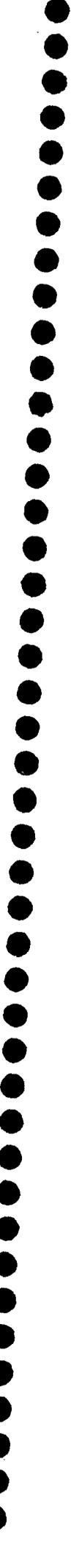
	Monitor Well Location	(NS)	Not Sampled
	Pipeline	<0.001	Constituent Concentration (mg/L)
	Fence		
	Excavation		
	Stockpile		

**Figure 3D**  
**Groundwater Concentration**  
**and Inferred PSH Extent Map**  
 (11/03/2010)  
 Plains Marketing, L.P.  
 Plains EMS #2001-11193  
 South Monument  
 Gathering Sour  
 Monument, NM

**NOVA Safety and Environmental**



Scale 1" = 120'	CAD By:TA	Checked By: MKG
December 8, 2010		



## Tables

**TABLE 1**

**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.  
 South Monument Gathering Sour  
 LEA COUNTY, NEW MEXICO  
 PLAINS SRS# 2001-11193**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>CASING WELL ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW-1	01/13/10	3,564.20	-	33.64	0.00	3,530.56
MW-1	02/01/10	3,564.20	-	33.25	0.00	3,530.95
MW-1	05/04/10	3,564.20		33.45	0.00	3,530.75
MW-1	08/03/10	3,564.20	-	33.84	0.00	3,530.36
MW-1	11/03/10	3,564.20	-	33.72	0.00	3,530.48
MW-2	01/13/10	3,563.83	-	32.27	0.00	3,531.56
MW-2	02/01/10	3,563.83	-	32.10	0.00	3,531.73
MW-2	05/04/10	3,563.83		32.26	0.00	3,531.57
MW-2	08/03/10	3,563.83	-	32.27	0.00	3,531.56
MW-2	11/03/10	3,563.83		32.27	0.00	3,531.56
MW-3	01/13/10	3,564.42		33.79	0.00	3,530.63
MW-3	02/01/10	3,564.42		33.56	0.00	3,530.86
MW-3	05/04/10	3,564.42		33.37	0.00	3,531.05
MW-3	08/03/10	3,564.42	-	33.68	0.00	3,530.74
MW-3	11/03/10	3,564.42		33.83	0.00	3,530.59

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

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2010  
 SOUTH MONUMENT GATHERING SOUR  
 PLAINS MARKETING, L.P.  
 LEA COUNTY, NEW MEXICO  
 Plains SRS# 2001-11193

All concentrations are in mg/kg

Sample Date	Sample Location	Benzene	Toluene	Ethylbenzene	Xylene	BTEX
<b>NMOCd REGULATORY LIMIT</b>		<b>0.010</b>	<b>0.750</b>	<b>0.750</b>	<b>0.620</b>	
02/01/10	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
05/04/10	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
08/03/10	MW-1	<b>0.14</b>	<0.001	0.0109	0.1100	0.2609
11/03/10	MW-1	<b>0.0141</b>	<0.001	<0.001	<0.001	0.0141
02/01/10	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
05/04/10	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
08/03/10	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
11/03/10	MW-2	0.0047	<0.001	<0.001	<0.001	0.0047
02/01/10	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
05/04/10	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
08/03/10	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
11/03/10	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001

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

TABLE 3

POLYCYCLIC AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
SOUTH MONUMENT GATHERING SOUR  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER RP #951

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benz[a]pyrene	Benz[b]fluoranthene	Benz[g,h,i]perylene	Benz[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran	
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.																					
	MW-1	11/05/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000922	0.0004 mg/L	0.000758	<0.000185	0.00173	0.000357	0.000875	<0.000185	
		11/19/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000627	<0.000184	0.00043	<0.000184	<0.000184	<0.000184	
	11/03/10																				
MW-2	11/05/08	<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	
	11/19/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/03/10																				
MW-3	11/05/08	<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	
	11/19/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
	11/03/10																				

Not Sampled as part of Quarterly Monitoring Event.

Not Sampled as part of Quarterly Monitoring Event.

EPA SW846-8270C, 3510



# Appendices



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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name South Monument Gathering Sour	Facility Type 6" Steel Pipeline

Surface Owner Jimmie Cooper	Mineral Owner	Lease No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	5	20S	37E					Lea

Latitude 32° 36' 29.0" Longitude 103° 16' 26.8"

**NATURE OF RELEASE**

Type of Release Crude Oil	Volume of Release 1200 barrels	Volume Recovered 910 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 11-20-01	Date and Hour of Discovery 11-20-01
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Frank Hernandez	Date and Hour 11-20-01@16:15	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Internal corrosion of 6 inch steel pipeline resulted in crude oil release. Clamp was applied to the line to mitigate the release.

Describe Area Affected and Cleanup Action Taken.\* The crude oil was vacuumed up and the impacted soil was excavated and stockpiled on plastic. Initial response activities included excavation and stockpiling of approximately 5,000 to 7,000 cubic yards of soil. Future response activities will include a soil and groundwater investigation and preparation of a remedial action plan.

**NOTE: This information was obtained from historical EOTT files, Plains acquired EOTT/Link Energy on April 1, 2004 and Plains assumes this information to be correct.**

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

Signature:		<b>OIL CONSERVATION DIVISION</b>	
		Approved by District Supervisor:	
Printed Name: Camille Reynolds		Approval Date:	Expiration Date:
Title: Remediation Coordinator		Conditions of Approval:	
E-mail Address: cjreynolds@paalp.com		Attached <input type="checkbox"/>	
Date: 12-29-04		Phone: 505-441-0965	

\* Attach Additional Sheets If Necessary