

1R - 119

Annual GW Mon. Report

Year:

2011



2011
ANNUAL MONITORING REPORT

MONUMENT 10
SE ¼ NE¼ Section 30, Township 19 South, Range 37 East
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM MONUMENT-10
NMOCD Reference Number 1R-0119

Prepared For:


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

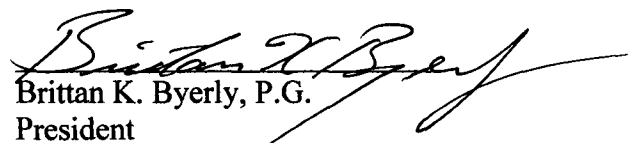


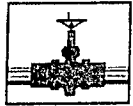
Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2012


Ronald K. Rounsaville
Senior Project Manager


Brittan K. Byerly, P.G.
President



PLAINS ALL AMERICAN

March 22, 2012

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

RECEIVED

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Re: Plains All American – 2011 Annual Monitoring Reports
15 Sites in Lea County, New Mexico

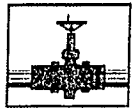
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

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
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
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

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



PLAINS
ALL AMERICAN

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

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3B – Groundwater Concentration and Inferred PSH Extent Map – May 10, 2011

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APPENDICES

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

ENCLOSED ON DATA DISK

2011 Annual Monitoring Report

2011 Tables 1, 2 and 3 – Groundwater Elevation and BTEX Concentration Data

2011 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Tables 1, 2 and 3 – Groundwater Elevation, BTEX and 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 Monument 10 Site (the site), formally the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with figures, attachments, tables and text. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2011 only. For reference, the Site Location Map is provided as Figure 1. Cumulative tables and laboratory data are provided on the enclosed data disk.

Groundwater monitoring was conducted each quarter of 2011 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

The legal description of the site location is SE ¼ NE¼ Section 30, Township 19 South, Range 37 East. No information with respect to the release date, volume of crude oil released or recovered, excavation volumes, or pipeline repair details is available. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. The initial site investigation, consisting of the installation of seven groundwater monitor wells (MW-1 through MW-7), was performed by a previous consultant.

Seven groundwater monitor wells (MW-1 through MW-7) are currently on-site. Manual PSH recovery is conducted weekly from monitor wells MW-1, MW-2 and MW-3.

FIELD ACTIVITIES

Product Recovery Efforts

During the reporting period, monitor wells MW-1, MW-2 and MW-3 exhibited measurable thicknesses of PSH during all four quarters of the reporting period. The average PSH thickness for the year from the three monitor wells displaying PSH was 1.57 feet. The maximum measured PSH thickness of 4.14 feet was observed in monitor well MW-3 on May 2, 2011.

Approximately 216 gallons (approximately 5.14 barrels) of PSH were recovered from the site during the reporting period. Approximately 2,117 gallons (approximately 50.4 barrels) of PSH have been recovered from this site since the project inception.

During the reporting period, Plains contracted a third party to conduct Mobile Dual Phase Extraction (MDPE) events at the Monument 10 site to assist in PSH recovery efforts. On May 7 and September 13, 2011, 12-hour MDPE events were conducted on monitor wells MW-1, MW-2 and MW-3. During the two MDPE events, approximately 54 gallons of liquid PSH and 33.28 equivalent off-gas vapor gallons were recovered.

Recovered PSH is reintroduced into the Plains transportation system at the Plains Lea Station Facility, near Monument, New Mexico. Measurable thicknesses of PSH are recorded in Table 1 and Figures 3A-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 by NMOCD correspondences dated June 22, 2005 and January 26, 2006.

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

The site monitor wells were gauged and sampled on February 7, May 10, August 8, and November 10, 2011. During each sampling event, monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Proactive Mini-Monsoon pump and dedicated tubing. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during quarterly sampling events performed in 2011, are depicted on the Inferred Groundwater Gradient Map(s), Figures 2A-2D. Groundwater elevation data for 2011 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 0.0145 feet/foot to the south-southeast as measured between monitor wells MW-4 and MW-6. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,604.93 and 3,609.68 feet above mean sea level, in monitor well MW-6 on September 14, 2011 and monitor well MW-4 on February 7, 2011, respectively.

LABORATORY RESULTS

Monitor wells MW-1, MW-2 and MW-3 contained PSH during all four quarters of the reporting period and were not sampled.

Groundwater samples obtained during the quarterly sampling events of 2011 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 2011 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. No other wells warrant PAH analysis based upon NMOCD directive. A listing of BTEX constituent concentrations for 2011 is summarized in Table 2. Copies of the laboratory reports generated for 2011 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 an annual schedule. Monitor well MW-1 was not sampled during any quarter of the reporting period, due to the presence of PSH. PSH thicknesses of 0.23 feet, 0.07 feet, 0.05 feet and 0.04 feet was reported during the 1st, 2nd, 3rd and 4th quarters of 2011. PSH levels fluctuated between 0.00 feet and 2.87 feet from May to early July 2011. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-2 is monitored on a quarterly schedule. Monitor well MW-2 was not sampled during the four quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 2.15 feet, 0.50 feet, 0.49 feet, and 1.09 feet were reported during the 1st, 2nd, 3rd and 4th quarters of 2011, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-3 is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the four quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 3.25 feet, 0.37 feet, 0.41 feet, and 3.12 feet were reported during the 1st, 2nd, 3rd and 4th quarters of 2011, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-4 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 4th quarter sampling event. Monitor well MW-4 has exhibited thirty consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-5 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 4th quarter sampling event. Monitor well MW-5 has exhibited thirty-three consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-6 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. Monitor well MW-6 has exhibited thirty-three consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. Monitor well MW-7 has exhibited

thirty-eight consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th 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 2011 annual monitoring period. Currently, there are seven groundwater monitor wells on the site. Three monitor wells (MW-1, MW-2 and MW-3) exhibited measurable thicknesses of PSH during each of the four sampling events of the reporting period. MW-1, MW-2 and MW-3 exhibited PSH during all four quarters of the reporting period and were not sampled. Manual product recovery occurs from monitor wells MW-1, MW-2 and MW-3 on a weekly schedule. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0145 feet/foot to the south-southeast.

Approximately 216 gallons (approximately 5.14 barrels) of PSH were recovered from the site during the reporting period. Approximately 2,117 gallons (approximately 50.4 barrels) of PSH have been recovered from this site since the project inception.

During the reporting period, Plains contracted a third party to conduct Mobile Dual Phase Extraction (MDPE) events at the Monument 10 site to assist in PSH recovery efforts. On May 7 and September 13, 2011, two, 12-hour MDPE events were conducted on monitor wells MW-1, MW-2 and MW-3. During the two MDPE events, approximately 54 gallons of liquid PSH and 33.28 equivalent off-gas vapor gallons were recovered.

Review of the laboratory analytical results of the groundwater samples obtained during the reporting period indicated BTEX constituent concentrations remain below applicable NMOCD regulatory standards in four of the seven site monitor wells. At this time, PSH impact appears to be limited to the vicinity of monitor wells MW-1, MW-2 and MW-3.

ANTICIPATED ACTIONS

Quarterly monitoring, aggressive PSH recovery and groundwater sampling will continue in 2012. Manual product recovery and gauging well be conducted on a weekly schedule and will be adjusted according to site conditions. Additional MDPE events will be scheduled as necessary.

An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2013.

LIMITATIONS

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

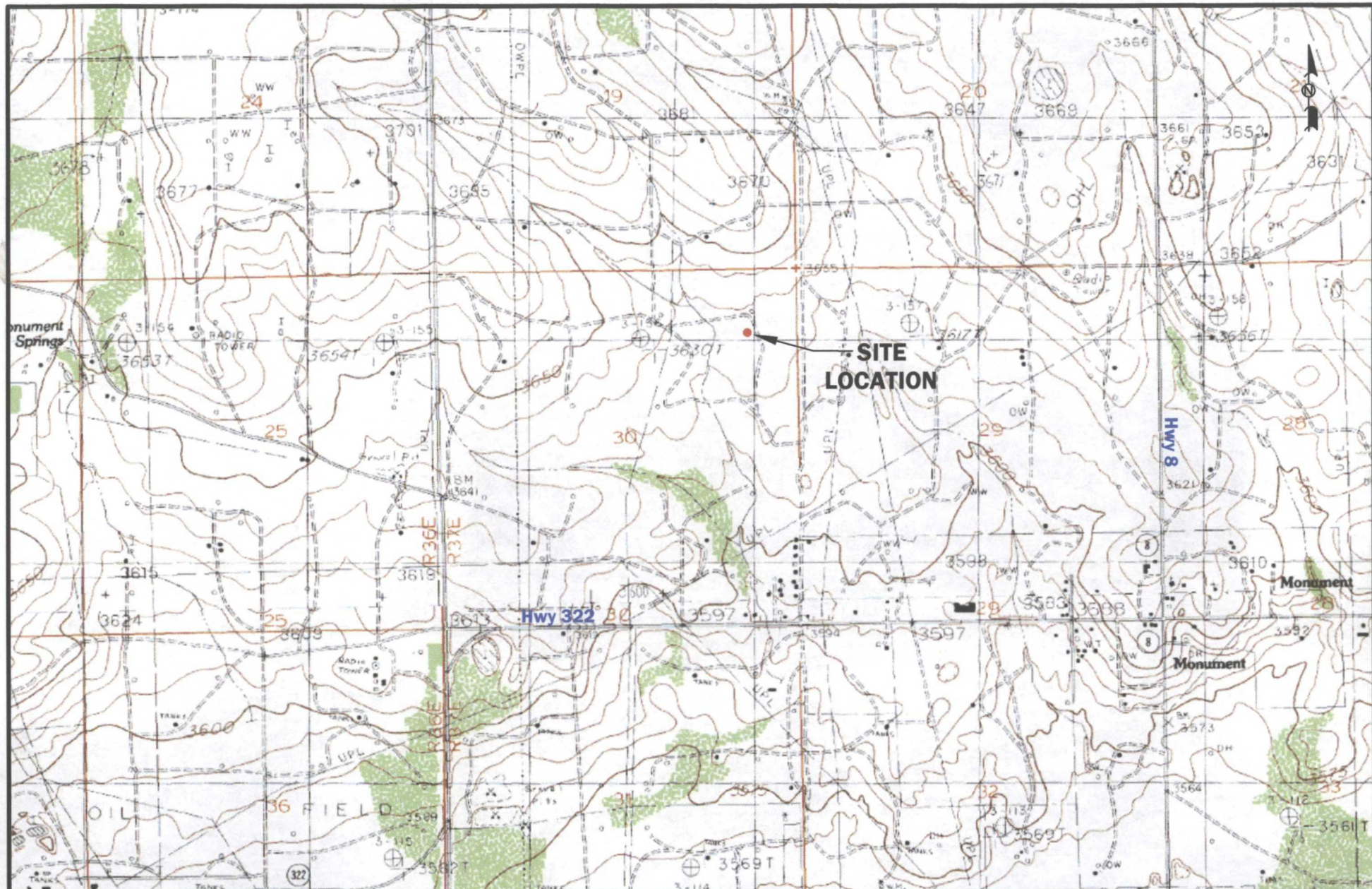
NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that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

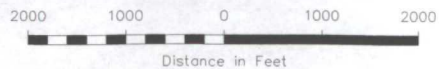
DISTRIBUTION

- 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
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Hobbs, NM 88240
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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:



NMOCD Reference #1R-0119

Figure 1
Site Location Map
Monument 10
Plains Marketing, L.P.
Lea County, NM



2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

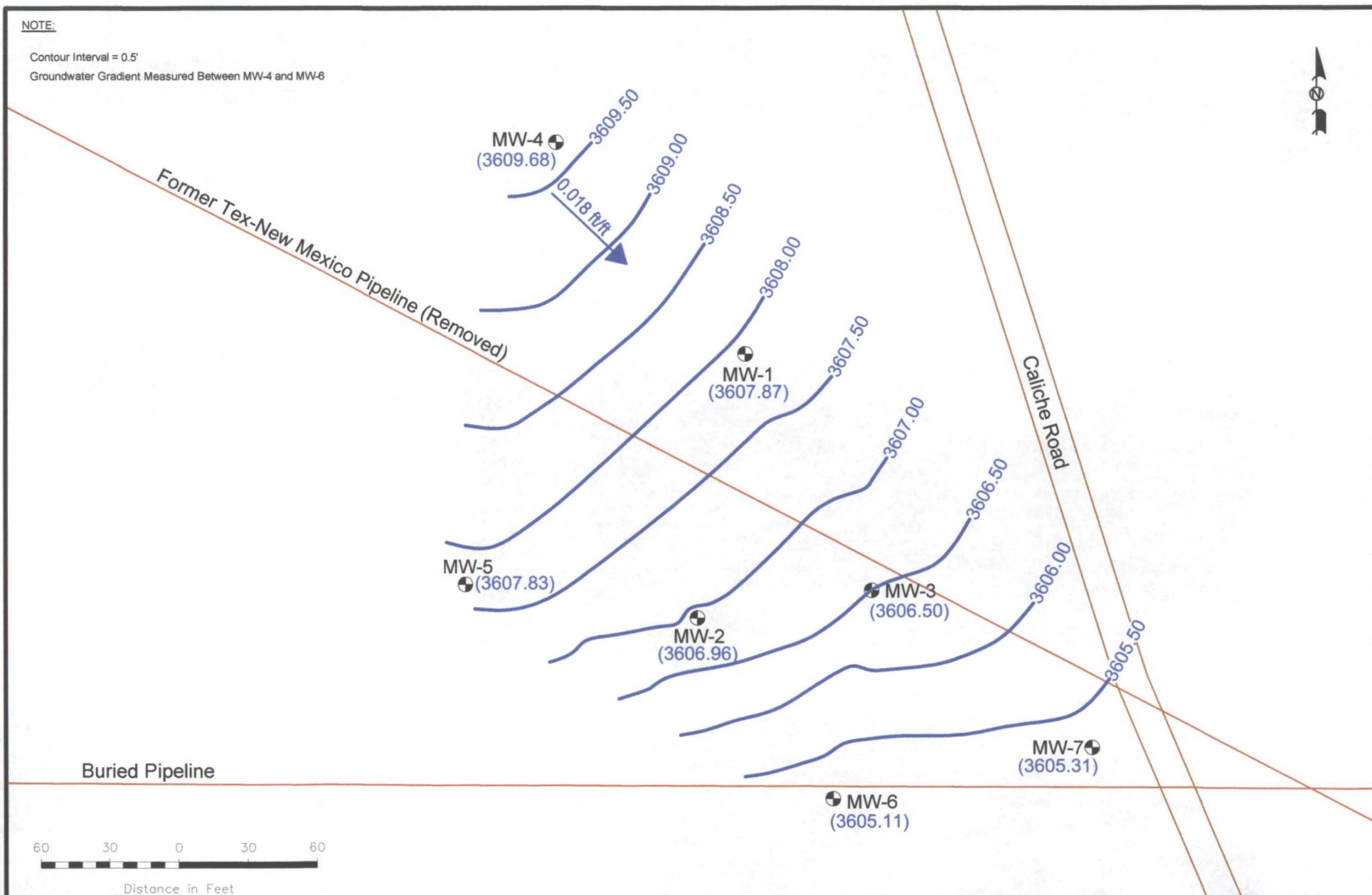
www.novasafetyandenvironmental.com

March 3, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR
LATITUDE & LONGITUDE COORDINATES: N 32° 38' 8.77" W 103° 17' 3.42"			

NOTE:

Contour Interval = 0.5'

Groundwater Gradient Measured Between MW-4 and MW-6



LEGEND:

- Monitor Well Location
- Pipeline
- Groundwater Elevation Contour Line
- Groundwater Elevation (feet)
- Groundwater Gradient and Magnitude

Figure 2A
Inferred Groundwater
Gradient Map
(2/7/11)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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April 21, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

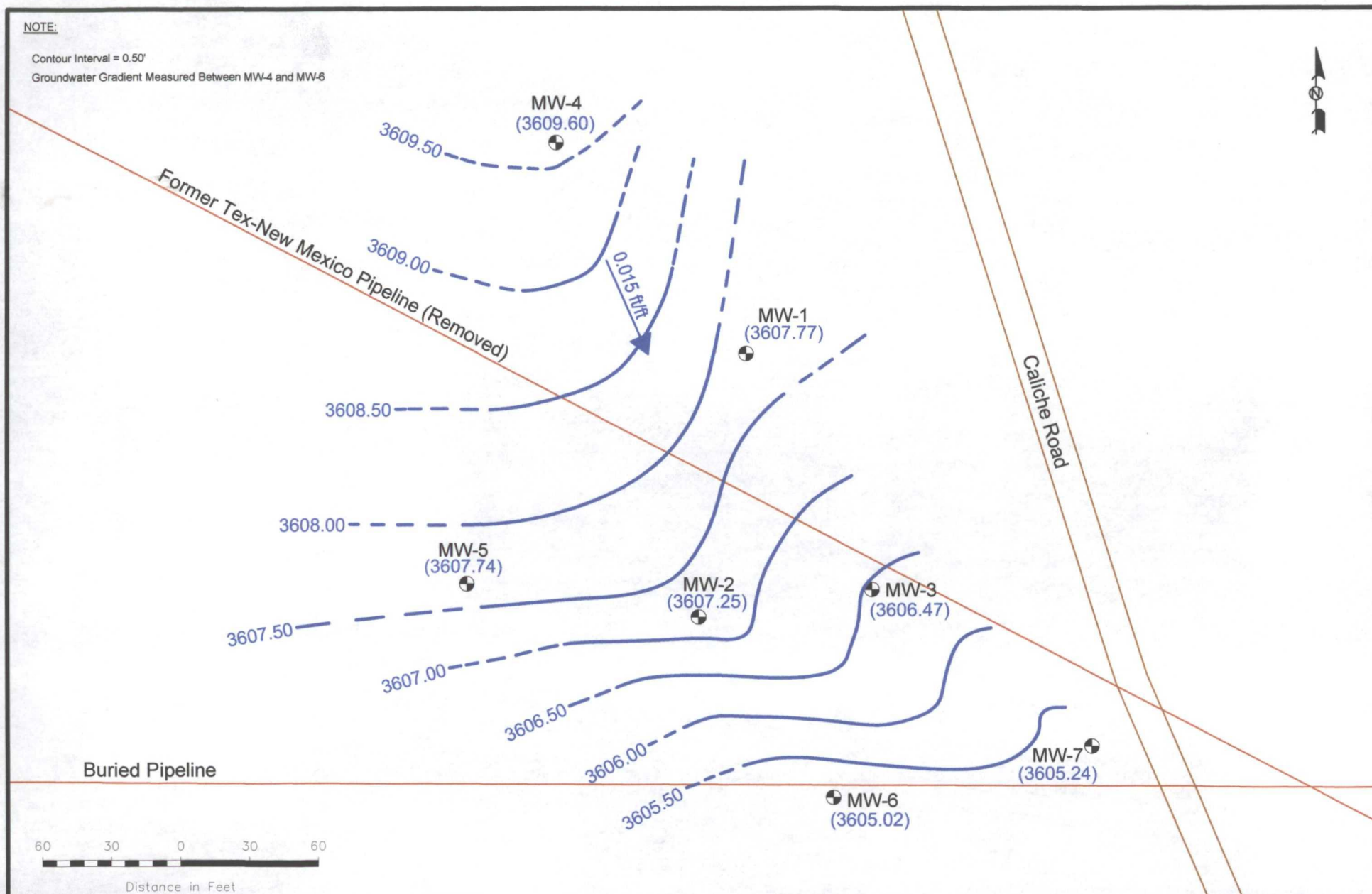
Lat. N 32° 38' 14" Long. W 103° 17' 4"

NE1/4 Section 30 T19S R37E

NOTE:

Contour Interval = 0.50'

Groundwater Gradient Measured Between MW-4 and MW-6



LEGEND:

- Monitor Well Location
- Pipeline
- Groundwater Elevation Contour Line
- Groundwater Elevation (feet)
- Groundwater Gradient and Magnitude

Figure 2B
Inferred Groundwater
Gradient Map
(5/10/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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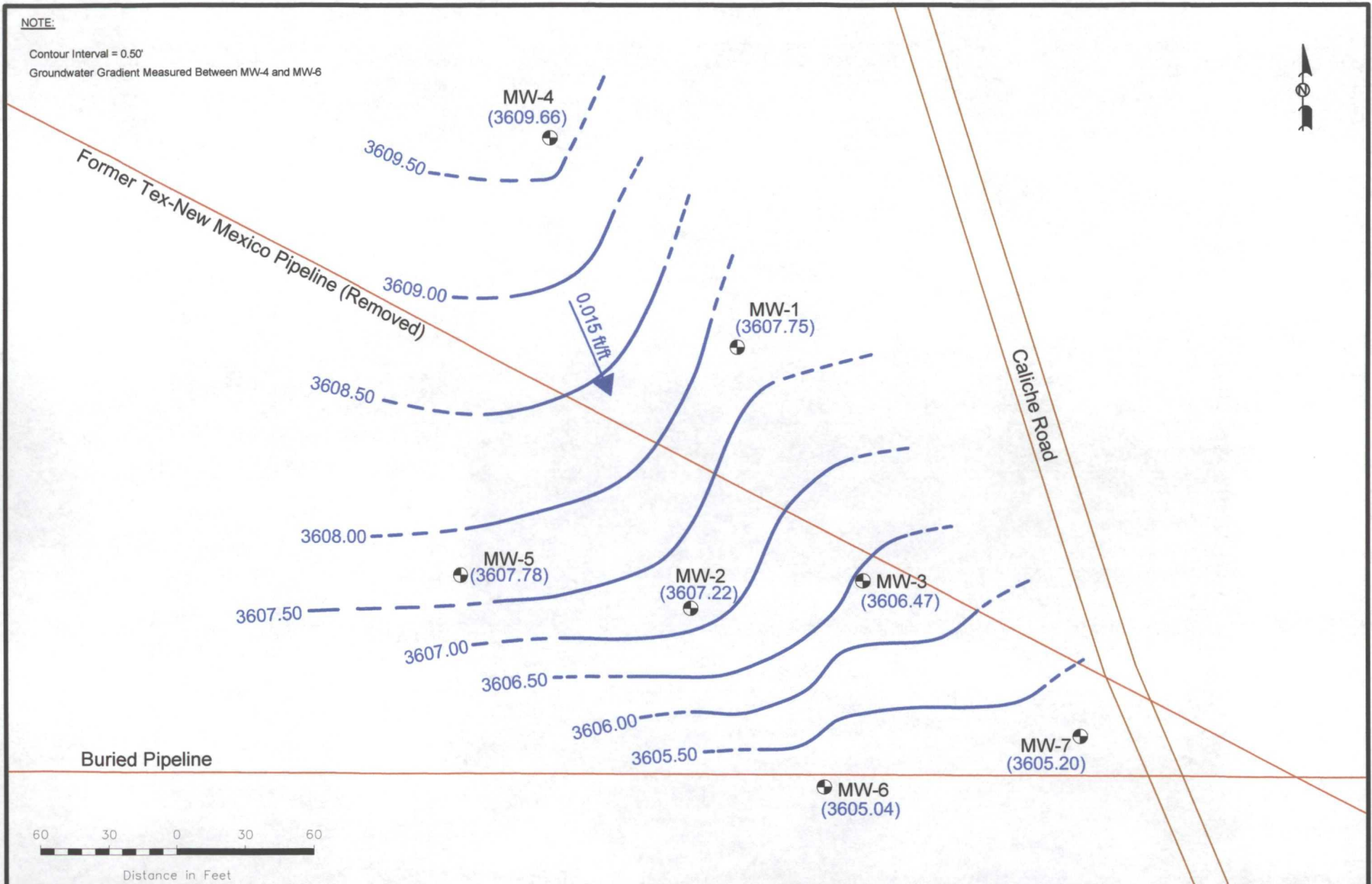
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NOTE:

Contour Interval = 0.50'

Groundwater Gradient Measured Between MW-4 and MW-6



LEGEND:

- Monitor Well Location
- Pipeline
- Groundwater Elevation Contour Line
- Groundwater Elevation (feet)
- Groundwater Gradient and Magnitude

Figure 2C
Inferred Groundwater
Gradient Map
(8/8/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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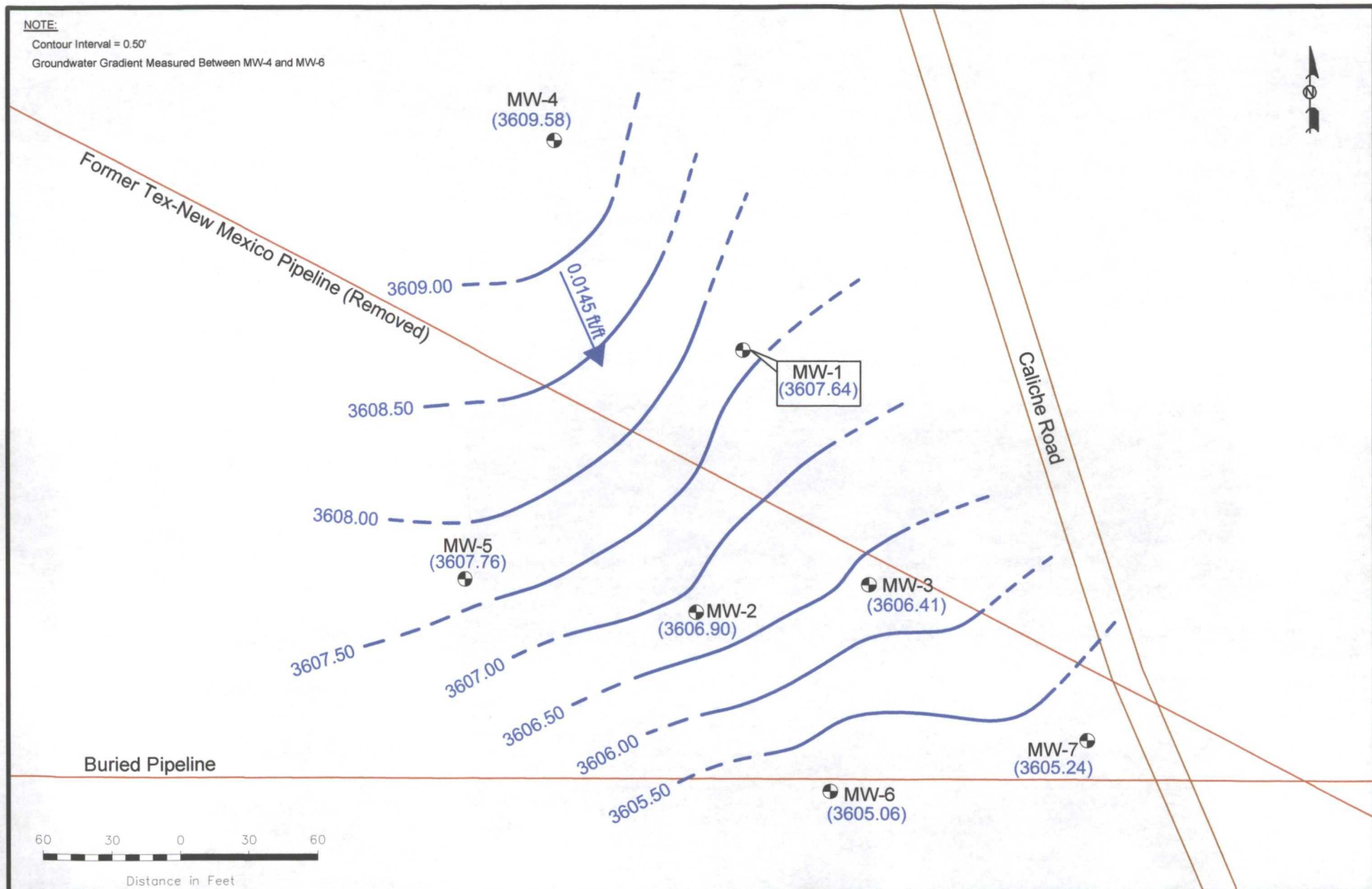
September 13, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4" NE1/4 Section 30 T19S R37E

NOTE:

Contour Interval = 0.50'

Groundwater Gradient Measured Between MW-4 and MW-6



LEGEND:






-  Monitor Well Location
-  Pipeline
-  Groundwater Elevation Contour Line
-  (3606.94) Groundwater Elevation (feet)
-  0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2D
Inferred Groundwater
Gradient Map
(11/10/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM

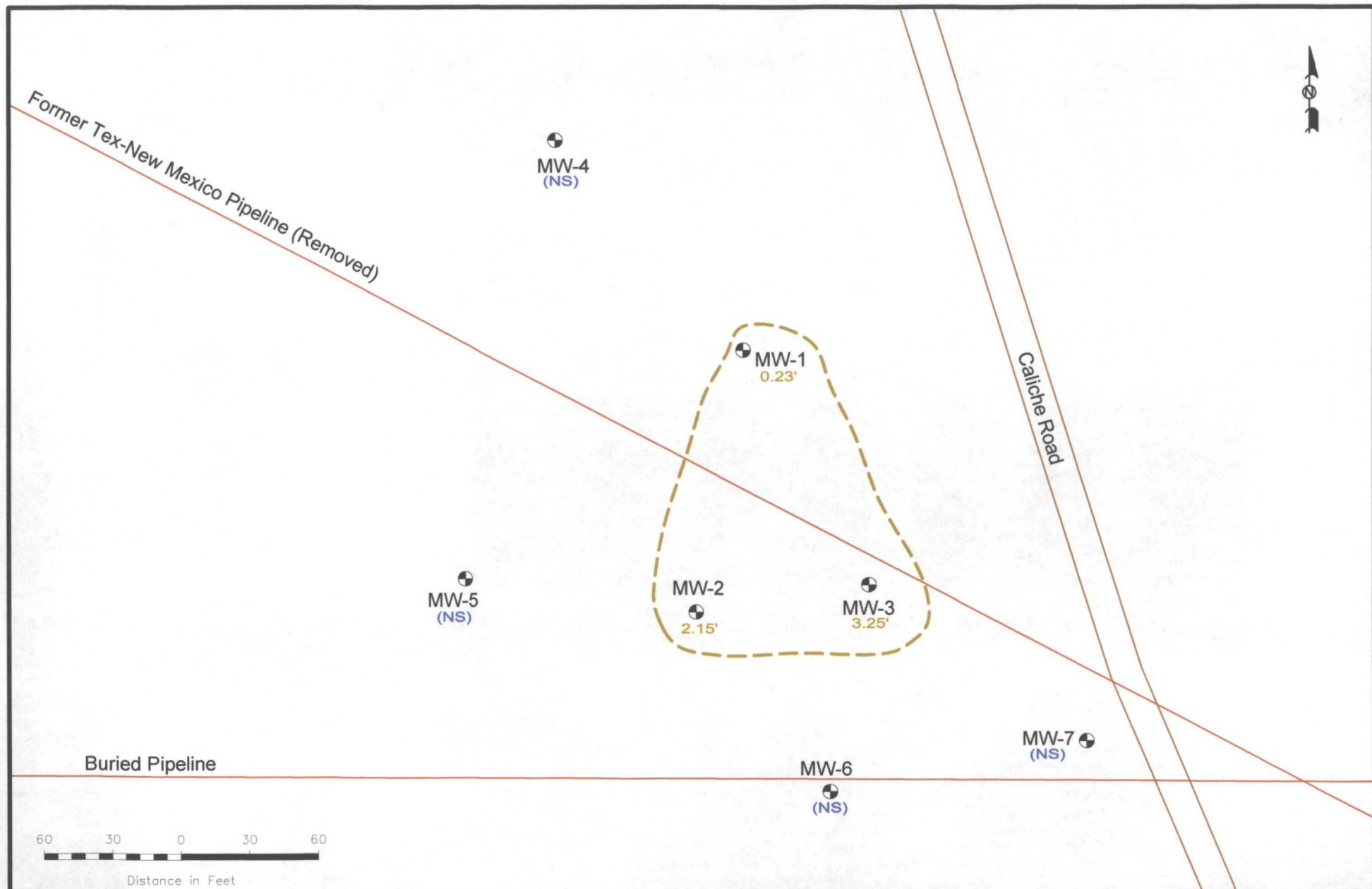


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November 17, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4" NE1/4 Section 30 T19S R37E



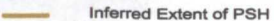
LEGEND:



Monitor Well Location



Pipeline



Inferred Extent of PSH

3.48'

Depth of PSH (feet)

(NS)

Not Sampled

<0.001

Constituent Concentration (mg/L)

Figure 3A
Groundwater Concentration
and Inferred PSH Extents
Map (2/7/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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April 4, 2011

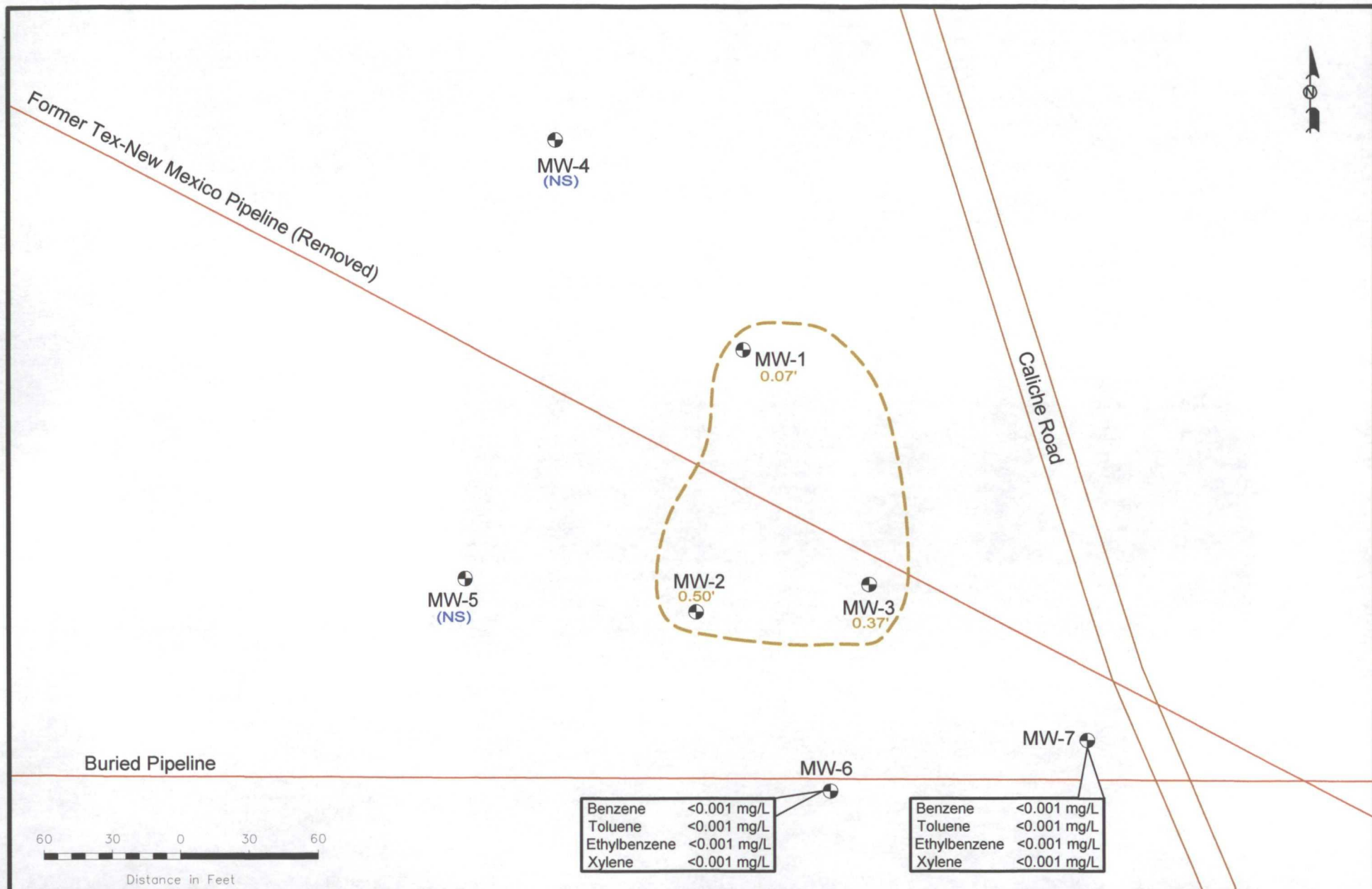
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CAD By: TA

Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4"

NE1/4 Section 30 T19S R37E



LEGEND:



Monitor Well Location



Pipeline



Inferred Extent of PSH

3.48'

Depth of PSH (feet)

(NS)

Not Sampled

<0.001

Constituent Concentration (mg/L)

Figure 3B
Groundwater Concentration
and Inferred PSH Extents
Map (5/10/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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Midland, Texas 79703
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June 7, 2011

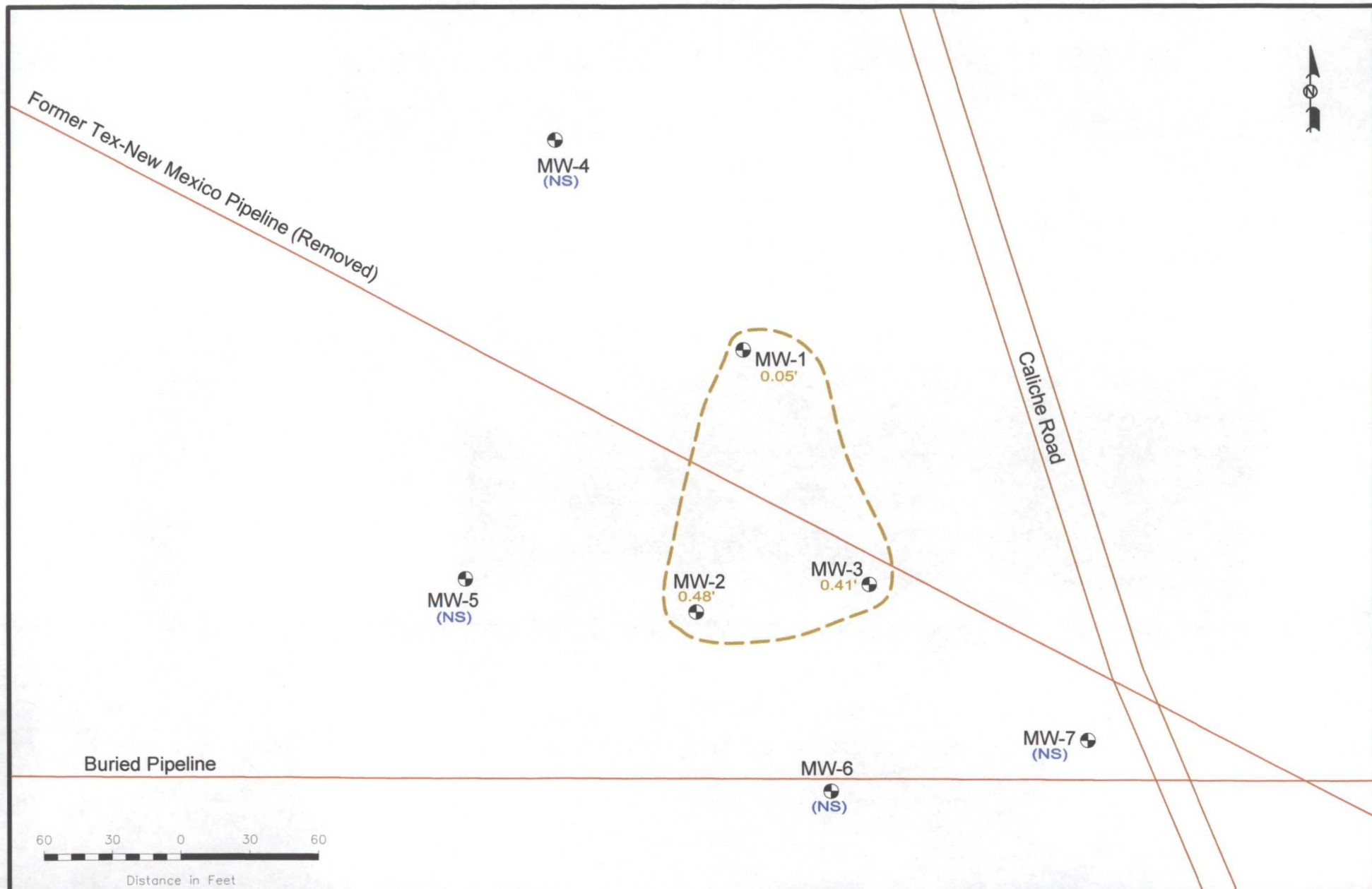
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CAD By: TA

Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4"

NE1/4 Section 30 T19S R37E



LEGEND:



Monitor Well Location



Pipeline



Inferred Extent of PSH

3.48'

Depth of PSH (feet)

(NS)

Not Sampled

<0.001

Constituent Concentration (mg/L)

Figure 3C
Groundwater Concentration
and Inferred PSH Extents
Map (8/8/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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September 13, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4"

NE1/4 Section 30 T19S R37E

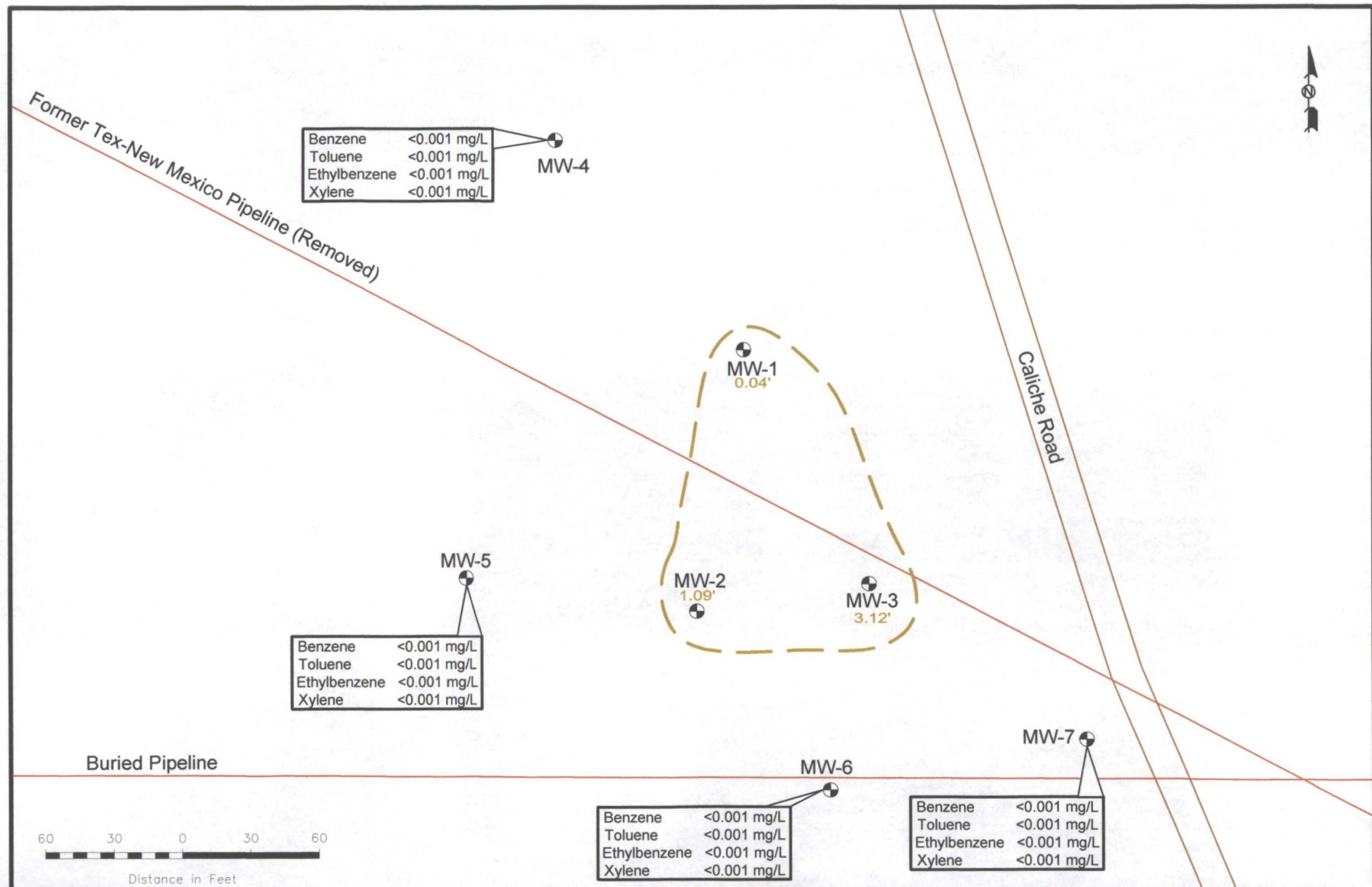


Figure 3D
Groundwater Concentration
and Inferred PSH Extents
Map (11/10/2011)
NMOCD Reference # 1R-0119
Plains Marketing, L.P.
Monument 10
Lea County, NM



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November 17, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 38' 14" Long. W 103° 17' 4"

NE1/4 Section 30 T19S R37E

Tables

TABLE 1
GROUNDWATER ELEVATION DATA - 2011
PLAIN MARKETING, L.P.
MONUMENT 10
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0119

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/07/11	3,629.33	21.43	21.66	0.23	3,607.87
MW - 1	05/02/11	3,629.33	22.16	25.03	2.87	3,606.74
MW - 1	05/09/11	3,629.33	21.56	21.60	0.04	3,607.76
MW - 1	05/10/11	3,629.33	21.55	21.62	0.07	3,607.77
MW - 1	07/12/11	3,629.33	-	21.52	0.00	3,607.81
MW - 1	07/22/11	3,629.33	-	21.45	0.00	3,607.88
MW - 1	08/04/11	3,629.33	-	21.62	0.00	3,607.71
MW - 1	08/08/11	3,629.33	21.57	21.62	0.05	3,607.75
MW - 1	08/11/11	3,629.33	-	21.92	0.00	3,607.41
MW - 1	08/24/11	3,629.33	-	22.01	0.00	3,607.32
MW - 1	09/02/11	3,629.33	-	21.87	0.00	3,607.46
MW - 1	09/07/11	3,629.33	-	21.85	0.00	3,607.48
MW - 1	09/09/11	3,629.33	-	21.80	0.00	3,607.53
MW - 1	09/14/11	3,629.33	-	21.80	0.00	3,607.53
MW - 1	09/22/11	3,629.33	-	21.80	0.00	3,607.53
MW - 1	10/26/11	3,629.33	21.66	21.69	0.03	3,607.67
MW - 1	11/10/11	3,629.33	21.68	21.72	0.04	3,607.64
MW - 1	12/02/11	3,629.33	-	21.70	0.00	3,607.63
MW - 1	12/09/11	3,629.33	-	21.75	0.00	3,607.58
MW - 1	12/13/11	3,629.33	-	21.75	0.00	3,607.58
MW - 1	12/23/11	3,629.33	-	21.65	0.00	3,607.68
MW - 1	12/29/11	3,629.33	-	21.56	0.00	3,607.77
MW - 2	01/20/11	3,629.43	21.87	23.50	1.63	3,607.32
MW - 2	02/07/11	3,629.43	22.15	24.30	2.15	3,606.96
MW - 2	05/02/11	3,629.43	22.16	25.03	2.87	3,606.84
MW - 2	05/09/11	3,629.43	22.52	22.61	0.09	3,606.90
MW - 2	05/10/11	3,629.43	22.11	22.61	0.50	3,607.25
MW - 2	05/19/11	3,629.43	22.42	23.02	0.60	3,606.92
MW - 2	05/27/11	3,629.43	22.40	23.30	0.90	3,606.90
MW - 2	06/10/11	3,629.43	22.44	23.15	0.71	3,606.88
MW - 2	06/24/11	3,629.43	22.45	23.23	0.78	3,606.86
MW - 2	07/01/11	3,629.43	22.40	23.60	1.20	3,606.85
MW - 2	07/12/11	3,629.43	22.35	23.97	1.62	3,606.84
MW - 2	07/22/11	3,629.43	22.31	23.88	1.57	3,606.88
MW - 2	08/04/11	3,629.43	22.28	24.15	1.87	3,606.87
MW - 2	08/08/11	3,629.43	22.14	22.63	0.49	3,607.22
MW - 2	08/11/11	3,629.43	22.35	23.70	1.35	3,606.88
MW - 2	08/24/11	3,629.43	22.37	23.45	1.08	3,606.90
MW - 2	09/02/11	3,629.43	22.44	23.37	0.93	3,606.85
MW - 2	09/07/11	3,629.43	21.39	23.60	2.21	3,607.71
MW - 2	09/09/11	3,629.43	22.03	23.64	1.61	3,607.16

TABLE 1
GROUNDWATER ELEVATION DATA - 2011

PLAIN MARKETING, L.P.
MONUMENT 10
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0119

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	09/14/11	3,629.43	22.66	22.74	0.08	3,606.76
MW - 2	09/22/11	3,629.43	22.50	22.78	0.28	3,606.89
MW - 2	10/26/11	3,629.43	22.40	23.38	0.98	3,606.88
MW - 2	11/10/11	3,629.43	22.37	23.46	1.09	3,606.90
MW - 2	11/14/11	3,629.43	22.37	23.46	1.09	3,606.90
MW - 2	12/02/11	3,629.43	22.33	23.80	1.47	3,606.88
MW - 2	12/09/11	3,629.43	22.37	23.52	1.15	3,606.89
MW - 2	12/13/11	3,629.43	22.36	23.50	1.14	3,606.90
MW - 2	12/23/11	3,629.43	22.40	23.46	1.06	3,606.87
MW - 2	12/29/11	3,629.43	22.41	23.31	0.90	3,606.89
MW - 3	01/20/11	3,628.90	21.71	24.02	2.31	3,606.84
MW - 3	02/07/11	3,628.90	21.91	25.16	3.25	3,606.50
MW - 3	05/02/11	3,628.90	21.88	26.02	4.14	3,606.40
MW - 3	05/09/11	3,628.90	22.35	22.75	0.40	3,606.49
MW - 3	05/10/11	3,628.90	22.37	22.74	0.37	3,606.47
MW - 3	05/19/11	3,628.90	22.22	24.18	1.96	3,606.39
MW - 3	05/27/11	3,628.90	22.09	24.46	2.37	3,606.45
MW - 3	06/10/11	3,628.90	22.13	24.38	2.25	3,606.43
MW - 3	06/24/11	3,628.90	22.20	24.46	2.26	3,606.36
MW - 3	07/01/11	3,628.90	22.18	24.75	2.57	3,606.33
MW - 3	07/12/11	3,628.90	22.03	25.15	3.12	3,606.40
MW - 3	07/22/11	3,628.90	22.05	25.05	3.00	3,606.40
MW - 3	08/04/11	3,628.90	22.01	25.41	3.40	3,606.38
MW - 3	08/08/11	3,628.90	22.37	22.78	0.41	3,606.47
MW - 3	08/11/11	3,628.90	22.08	24.91	2.83	3,606.40
MW - 3	08/24/11	3,628.90	22.10	24.79	2.69	3,606.40
MW - 3	09/02/11	3,628.90	22.07	25.16	3.09	3,606.37
MW - 3	09/07/11	3,628.90	22.11	24.56	2.45	3,606.42
MW - 3	09/09/11	3,628.90	22.08	24.73	2.65	3,606.42
MW - 3	09/14/11	3,628.90	22.52	22.71	0.19	3,606.35
MW - 3	09/22/11	3,628.90	22.27	23.54	1.27	3,606.44
MW - 3	10/26/11	3,628.90	22.04	25.10	3.06	3,606.40
MW - 3	11/10/11	3,628.90	22.02	25.14	3.12	3,606.41
MW - 3	11/14/11	3,628.90	22.02	25.14	3.12	3,606.41
MW - 3	12/02/11	3,628.90	21.96	25.40	3.44	3,606.42
MW - 3	12/09/11	3,628.90	22.01	24.86	2.85	3,606.46
MW - 3	12/13/11	3,628.90	22.02	24.89	2.87	3,606.45
MW - 3	12/23/11	3,628.90	22.04	24.87	2.83	3,606.44
MW - 3	12/29/11	3,628.90	22.11	24.41	2.30	3,606.45

TABLE 1
GROUNDWATER ELEVATION DATA - 2011
PLAIN MARKETING, L.P.
MONUMENT 10
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0119

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	02/07/11	3,629.97	-	20.29	0.00	3,609.68
MW - 4	05/02/11	3,629.97	-	20.38	0.00	3,609.59
MW - 4	05/09/11	3,629.97	-	20.37	0.00	3,609.60
MW - 4	05/10/11	3,629.97	-	20.37	0.00	3,609.60
MW - 4	08/08/11	3,629.97	-	20.31	0.00	3,609.66
MW - 4	09/14/11	3,629.97	-	20.43	0.00	3,609.54
MW - 4	11/10/11	3,629.97	-	20.39	0.00	3,609.58
MW - 5	02/07/11	3,629.36	-	21.53	0.00	3,607.83
MW - 5	05/02/11	3,629.36	-	21.58	0.00	3,607.78
MW - 5	05/09/11	3,629.36	-	21.62	0.00	3,607.74
MW - 5	05/10/11	3,629.36	-	21.62	0.00	3,607.74
MW - 5	08/08/11	3,629.36	-	21.58	0.00	3,607.78
MW - 5	09/14/11	3,629.36	-	21.71	0.00	3,607.65
MW - 5	11/10/11	3,629.36	-	21.60	0.00	3,607.76
MW - 6	02/07/11	3,629.17	-	24.06	0.00	3,605.11
MW - 6	05/02/11	3,629.17	-	24.12	0.00	3,605.05
MW - 6	05/09/11	3,629.17	-	24.15	0.00	3,605.02
MW - 6	05/10/11	3,629.17	-	24.15	0.00	3,605.02
MW - 6	08/08/11	3,629.17	-	24.13	0.00	3,605.04
MW - 6	09/14/11	3,629.17	-	24.24	0.00	3,604.93
MW - 6	11/10/11	3,629.17	-	24.11	0.00	3,605.06
MW - 7	02/07/11	3,628.07	-	22.76	0.00	3,605.31
MW - 7	05/02/11	3,628.07	-	22.81	0.00	3,605.26
MW - 7	05/09/11	3,628.07	-	22.83	0.00	3,605.24
MW - 7	05/10/11	3,628.07	-	22.83	0.00	3,605.24
MW - 7	08/08/11	3,628.07	-	22.87	0.00	3,605.20
MW - 7	09/14/11	3,628.07	-	22.90	0.00	3,605.17
MW - 7	11/10/11	3,628.07	-	22.83	0.00	3,605.24

* Complete Historical Tables are provided on the attached CD.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2011

PLAINS MARKETING, L.P.
 MONUMENT 10
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0119

Results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p -XYLENES	o -XYLENE
NMOCD REGULATORY LIMIT		0.01	0.75	0.75	0.62	
MW - 1	02/07/11	Not sampled Due to PSH in Well				
MW - 1	05/10/11	Not sampled Due to PSH in Well				
MW - 1	08/08/11	Not sampled Due to PSH in Well				
MW - 1	11/10/11	Not sampled Due to PSH in Well				
MW - 2	02/07/11	Not sampled Due to PSH in Well				
MW - 2	05/10/11	Not sampled Due to PSH in Well				
MW - 2	08/08/11	Not sampled Due to PSH in Well				
MW - 2	11/10/11	Not sampled Due to PSH in Well				
MW - 3	02/07/11	Not sampled Due to PSH in Well				
MW - 3	05/10/11	Not sampled Due to PSH in Well				
MW - 3	08/08/11	Not sampled Due to PSH in Well				
MW - 3	11/10/11	Not sampled Due to PSH in Well				
MW - 4	02/07/11	Not Sampled on Current Sample Schedule				
MW - 4	05/10/11	Not Sampled on Current Sample Schedule				
MW - 4	08/08/11	Not Sampled on Current Sample Schedule				
MW - 4	11/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/07/11	Not Sampled on Current Sample Schedule				
MW - 5	05/10/11	Not Sampled on Current Sample Schedule				
MW - 5	08/08/11	Not Sampled on Current Sample Schedule				
MW - 5	11/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/07/11	Not Sampled on Current Sample Schedule				
MW - 6	05/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/08/11	Not Sampled on Current Sample Schedule				
MW - 6	11/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/07/11	Not Sampled on Current Sample Schedule				
MW - 7	05/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/08/11	Not Sampled on Current Sample Schedule				
MW - 7	11/10/11	<0.001	<0.001	<0.001	<0.001	

* Complete Historical Tables are provided on the attached CD.

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 10
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER R1-0119

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	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.		—	—	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	—	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L		—	
MW-1	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000788	<0.000185	0.000887	<0.000185	0.000386	0.00226	0.000251	0.00143	
	11/06/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled due to presence of PSH.																		
MW-2	11/19/08	<0.0229	<0.0229	0.115	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	0.0281	<0.0229	<0.0229	0.0786	<0.0229	0.114	<0.0229	0.0899	0.429	0.337	0.0612
	11/06/09	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	0.0152	<0.00184	0.0198	<0.00184	0.0190	0.112	0.0699	0.0119	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled due to presence of PSH.																		
MW-3	11/19/08	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	0.373	<0.0917	0.473	<0.0917	0.468	1.85	1.79	0.269	
	11/06/09	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	0.0134	<0.000926	0.0216	<0.000926	0.0178	0.105	0.0896	0.0113	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled due to presence of PSH.																		
MW-4	11/19/08	<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	
	11/06/09	<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	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/19/08	<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	
	11/06/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 10
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER R1-0119

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	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.		—	—	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	—	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L		—	
MW-6	11/19/08	<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	
	11/06/09	<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	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/19/08	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.000237	<0.000186	<0.000186	0.00034	<0.000186	0.000338
	11/06/09	<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	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	11/10/11	Not Sampled as part of Quarterly Monitoring Event.																		

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

x Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name	Monument #10	Facility Type:	Steel Pipeline
Surface Owner:	New Mexico State Land	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	30	19S	37E					Lea

Latitude 32 degrees 38' 9.2" Longitude 103 degrees 17' 2.4"

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume Recovered
Source of Release:	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Unknown	
By Whom?	If YES, To Whom?	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour	
If YES, Volume Impacting the Watercourse.		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
Describe Area Affected and Cleanup Action Taken.*		
NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.		
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:		OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/21/2005	Phone: (505)441-0965	

* Attach Additional Sheets If Necessary

Laboratory Analytical Reports



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•688•6301 FAX 432•688•6313
5015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 13, 2011

Work Order: 11051106

Project Location: North of Monument
Project Name: Monument #10
Project Number: TNM-Monument-10

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
266112	MW-6	water	2011-05-10	15:30	2011-05-11
266113	MW-7	water	2011-05-10	16:00	2011-05-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Monument #10 were received by TraceAnalysis, Inc. on 2011-05-11 and assigned to work order 11051106. Samples for work order 11051106 were received intact without headspace and at a temperature of 8.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	68937	2011-05-12 at 08:30	81212	2011-05-12 at 08:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11051106 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 13, 2011
TNM-Monument-10

Work Order: 11051106
Monument #10

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North of Monument

Analytical Report

Sample: 266112 - MW-6

Laboratory: Midland

Analysis: BTEX

QC Batch: 81212

Prep Batch: 68937

Analytical Method: S 8021B

Date Analyzed: 2011-05-12

Sample Preparation: 2011-05-12

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0902	mg/L	1	0.100	90	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0790	mg/L	1	0.100	79	51.1 - 128

Sample: 266113 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 81212

Prep Batch: 68937

Analytical Method: S 8021B

Date Analyzed: 2011-05-12

Sample Preparation: 2011-05-12

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0893	mg/L	1	0.100	89	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0816	mg/L	1	0.100	82	51.1 - 128

Method Blanks

Method Blank (1) QC Batch: 81212

QC Batch: 81212
Prep Batch: 68937

Date Analyzed: 2011-05-12
QC Preparation: 2011-05-12

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0824	mg/L	1	0.100	82	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.0747	mg/L	1	0.100	75	47.3 - 116

Report Date: May 13, 2011
TNM-Monument-10

Work Order: 11051106
Monument #10

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North of Monument

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 81212
Prep Batch: 68937

Date Analyzed: 2011-05-12
QC Preparation: 2011-05-12

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0976	mg/L	1	0.100	<0.000400	98	76.8 - 110
Toluene		1	0.105	mg/L	1	0.100	<0.000300	105	81 - 108
Ethylbenzene		1	0.0928	mg/L	1	0.100	<0.000300	93	78.8 - 118
Xylene		1	0.276	mg/L	1	0.300	<0.000333	92	80.3 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110	6	20
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	81 - 108	3	20
Ethylbenzene		1	0.0987	mg/L	1	0.100	<0.000300	99	78.8 - 118	6	20
Xylene		1	0.295	mg/L	1	0.300	<0.000333	98	80.3 - 119	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0823	0.0868	mg/L	1	0.100	82	87	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0815	0.0862	mg/L	1	0.100	82	86	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 266004

QC Batch: 81212
Prep Batch: 68937

Date Analyzed: 2011-05-12
QC Preparation: 2011-05-12

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	14.4	mg/L	50	5.00	9.7315	93	77.9 - 114
Toluene		1	5.25	mg/L	50	5.00	<0.0150	105	78.3 - 111
Ethylbenzene		1	5.95	mg/L	50	5.00	1.59	87	75.3 - 110
Xylene		1	13.8	mg/L	50	15.0	0.9838	85	75.7 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	14.3	mg/L	50	5.00	9.7315	91	77.9 - 114	1	20
Toluene		1	5.53	mg/L	50	5.00	<0.0150	111	78.3 - 111	5	20
Ethylbenzene		1	6.13	mg/L	50	5.00	1.59	91	75.3 - 110	3	20
Xylene		1	14.5	mg/L	50	15.0	0.9838	90	75.7 - 109	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.41	4.32	mg/L	50	5	88	86	68.3 - 107
4-Bromofluorobenzene (4-BFB)	4.35	4.32	mg/L	50	5	87	86	60.1 - 135

Calibration Standards

Standard (CCV-2)

QC Batch: 81212

Date Analyzed: 2011-05-12

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0999	100	80 - 120	2011-05-12
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2011-05-12
Ethylbenzene		1	mg/L	0.100	0.0919	92	80 - 120	2011-05-12
Xylene		1	mg/L	0.300	0.274	91	80 - 120	2011-05-12

Standard (CCV-3)

QC Batch: 81212

Date Analyzed: 2011-05-12

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-05-12
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2011-05-12
Ethylbenzene		1	mg/L	0.100	0.0939	94	80 - 120	2011-05-12
Xylene		1	mg/L	0.300	0.283	94	80 - 120	2011-05-12

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 15, 2011

Work Order: 11111406

Project Location: New Mexico
Project Name: Monument #10
Project Number: TNM Monument #10

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
282301	MW 4	water	2011-11-10	15:40	2011-11-11
282302	MW 5	water	2011-11-10	15:40	2011-11-11
282303	MW 6	water	2011-11-10	15:35	2011-11-11
282304	MW 7	water	2011-11-10	15:50	2011-11-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Monument #10 were received by TraceAnalysis, Inc. on 2011-11-11 and assigned to work order 11111406. Samples for work order 11111406 were received intact without headspace and at a temperature of 6.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	73378	2011-11-14 at 13:50	86423	2011-11-14 at 14:26

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11111406 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 282301 - MW 4

Laboratory: Midland
Analysis: BTEX
QC Batch: 86423
Prep Batch: 73378

Analytical Method: S 8021B
Date Analyzed: 2011-11-14
Sample Preparation: 2011-11-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

		RL					
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0802	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282302 - MW 5

Laboratory: Midland
Analysis: BTEX
QC Batch: 86423
Prep Batch: 73378

Analytical Method: S 8021B
Date Analyzed: 2011-11-14
Sample Preparation: 2011-11-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

		RL					
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0937	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0797	mg/L	1	0.100	80	67.5 - 140.8

Report Date: November 15, 2011
TNM Monument #10

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New Mexico

Sample: 282303 - MW 6

Laboratory: Midland
Analysis: BTEX
QC Batch: 86423
Prep Batch: 73378

Analytical Method: S 8021B
Date Analyzed: 2011-11-14
Sample Preparation: 2011-11-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

		RL					
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0939	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0788	mg/L	1	0.100	79	67.5 - 140.8

Sample: 282304 - MW 7

Laboratory: Midland
Analysis: BTEX
QC Batch: 86423
Prep Batch: 73378

Analytical Method: S 8021B
Date Analyzed: 2011-11-14
Sample Preparation: 2011-11-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0928	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0794	mg/L	1	0.100	79	67.5 - 140.8

Report Date: November 15, 2011
TNM Monument #10

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New Mexico

Method Blanks

Method Blank (1) QC Batch: 86423

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0930	mg/L	1	0.100	93	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0953	mg/L	1	0.100	<0.000400	95	76.8 - 120.3
Toluene		1	0.0912	mg/L	1	0.100	<0.000300	91	80.9 - 122.2
Ethylbenzene		1	0.0886	mg/L	1	0.100	<0.000300	89	72.7 - 120.2
Xylene		1	0.266	mg/L	1	0.300	<0.000333	89	72.1 - 121.5

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0994	mg/L	1	0.100	<0.000400	99	76.8 - 120.3	4	20
Toluene		1	0.0945	mg/L	1	0.100	<0.000300	94	80.9 - 122.2	4	20
Ethylbenzene		1	0.0923	mg/L	1	0.100	<0.000300	92	72.7 - 120.2	4	20
Xylene		1	0.277	mg/L	1	0.300	<0.000333	92	72.1 - 121.5	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0921	0.0929	mg/L	1	0.100	92	93	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0935	0.0940	mg/L	1	0.100	94	94	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 282285

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.135	mg/L	1	0.100	0.0318	103	66.9 - 128.2
Toluene		1	0.0986	mg/L	1	0.100	<0.000300	99	81.6 - 122.9
Ethylbenzene		1	0.0953	mg/L	1	0.100	<0.000300	95	62.7 - 117.9
Xylene		1	0.284	mg/L	1	0.300	0.0022	94	62.9 - 118.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: November 15, 2011
TNM Monument #10

Work Order: 11111406
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New Mexico

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.131	mg/L	1	0.100	0.0318	99	66.9 - 128.2	3	20
Toluene		1	0.0989	mg/L	1	0.100	<0.000300	99	81.6 - 122.9	0	20
Ethylbenzene		1	0.0963	mg/L	1	0.100	<0.000300	96	62.7 - 117.9	1	20
Xylene		1	0.287	mg/L	1	0.300	0.0022	95	62.9 - 118.2	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0973	0.0932	mg/L	1	0.1	97	93	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.0907	0.0908	mg/L	1	0.1	91	91	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 86423

Date Analyzed: 2011-11-14

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0942	94	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0874	87	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0832	83	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.250	83	80 - 120	2011-11-14

Standard (CCV-2)

QC Batch: 86423

Date Analyzed: 2011-11-14

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0990	99	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0937	94	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0890	89	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.267	89	80 - 120	2011-11-14

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

