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March 26, 2017

Dr. Tomas Oberding
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Plains Marketing, LP
LF-59
NMOCD Reference Number: 1R-0103
NW ¼ SW ¼, Section 32, Township 19 South, Range 37 East
Lea County, New Mexico

Dear Dr. Oberding,

On behalf of Plains Marketing, L.P. (Plains), TRC Environmental Corporation (TRC) is pleased to submit this 2016 Annual Monitoring Report to the New Mexico Oil Conservation Division (NMOCD) for the LF-59 Release Site.

On March 10, 2017, Plains and NMOCD representatives discussed the current status of the LF-59 Release Site. As a result of the meeting in Santa Fe, Plains understood the NMOCD will consider cessation of groundwater sampling activities and approve groundwater and Site Closure, if the analytical groundwater sampling data indicates BTEX concentrations are below the NMOCD regulatory guidelines for the four (4) quarterly sampling events of the 2017 reporting period.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-559-3296 (cell) or Camille Bryant (Plains) at 575-441-1099.

Respectfully submitted,

Curt D. Stanley
Senior Project Manager
TRC Environmental Corporation



2016
ANNUAL MONITORING REPORT

LF-59
LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 32, TOWNSHIP 19 SOUTH, RANGE 37 EAST
PLAINS SRS NUMBER: TNM-LF-59
NMOCD FILE NUMBER: 1R-0103

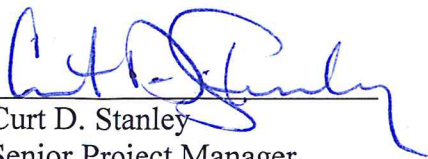
Prepared For:

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

Prepared By:

TRC Environmental Corporation
2057 Commerce Street
Midland, Texas 79703

March 2017


Curt D. Stanley
Senior Project Manager

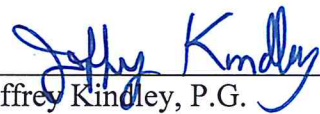

Jeffrey Kindley, P.G.
Senior Project Manager

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3B – Groundwater Concentration and Inferred PSH Extent Map – May 3, 2016

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Table 1 – 2016 Groundwater Elevation Data

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APPENDICES

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

ENCLOSED ON DATA DISK

2016 Annual Monitoring Report

2016 Tables 1, 2, and 3 – Groundwater Elevation Data, Concentrations of BTEX in Groundwater, Concentrations of PAH in Groundwater

2016 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Table 1, 2, and 3 – Groundwater Elevation, BTEX, and PAH Concentration Tables

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), TRC Environmental Corporation (TRC) is pleased to submit this 2016 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 TRC, previously NOVA Safety and Environmental (NOVA). The LF-59 Pipeline Release Site (the site), which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A. 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 2016 only. However, historic data tables as well as 2016 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2016 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The LF-59 Release Site occurred as two (2) separate releases of unknown volumes on unknown dates. The release occurred from an eight (8)-inch pipeline and was attributed to structural failure associated with internal pipeline corrosion. Approximately 6,900 cubic yards of impacted soil was excavated, sorted, shredded and combined with fertilizer to enhance bioremediation rates. Approximately 550 cubic yards of caliche rock was also stockpiled on-site as a result of the previously referenced soil treatment activity. The soil was spread onto an on-site treatment cell for aeration in March 2003. Soil in the treatment cell was sampled for baseline concentrations of Total Petroleum Hydrocarbon (TPH) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations using EPA Methods 8015M and 8260B, respectively. The treatment cell was resampled on September 7, 2005. Analytical results of this sampling event indicated Total Petroleum Hydrocarbons (TPH) concentrations had decreased to levels ranging between <50 to 115 milligrams/Kilogram (mg/Kg) total TPH.

A *Soil Closure Strategy and Site Restoration Work Plan* (Work Plan) was submitted to the NMOCD in July 2006. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

On September 20, 2007, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Following the completion of the soil remediation activities, a *Soil Closure Request*, dated February 2010 was submitted to the NMOCD for approval. On February 19, 2010, Plains received an email from the NMOCD approving the *Soil Closure Request* at the LF-59 Release Site.

In a correspondence dated August 23, 2010, the NMOCD approved the plugging of monitor well MW-6. On March 21, 2011, Plains properly plugged and abandoned MW-6 and a letter report documenting the activities was submitted to the NMOCD on April 19, 2011.

In a correspondence dated December 5, 2013, the NMOCD approved the plugging and abandonment of monitor well MW-1 and the installation of a replacement monitor well (MW-1A). On February 4, 2014, Plains properly plugged and abandoned MW-1 and installed monitor well MW-1A, located approximately fifteen (15) feet south of monitor well MW-1. Monitor well MW-1 plugging reports were mailed to the NMOCD on March 13, 2014.

Currently, seven (7) groundwater monitor wells (MW-1A, MW-2 through MW-5, MW-7, and MW-8) are on-site.

FIELD ACTIVITIES

Product Recovery Efforts

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

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated November 5, 2012 and December 5, 2013.

NMOCD Approved Sampling Schedule			
MW-1	Plugged and Abandoned	MW-5	Annually
MW-1A	Quarterly	MW-6	Plugged and Abandoned
MW-2	Quarterly	MW-7	Annually
MW-3	Annually	MW-8	Semi-Annual
MW-4	Quarterly		

The site monitor wells were gauged and sampled on the following dates: February 2, May 3, August 2, and October 3, 2016. During each sampling event, sampled monitor wells were purged of a minimum of three (3) well volumes of water or until the wells failed to produce water using a PVC bailer or electric Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four (4) quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2016 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, indicated a general gradient of 0.016 feet per foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7. Corrected groundwater elevations ranged between 3,546.54 to 3,554.38 feet above mean sea level, in monitor well MW-7 on July 26, 2016 and monitor well MW-5 on September 20, 2016, respectively.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2016 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Based upon historic Polynuclear Aromatic Hydrocarbons (PAH) analytical data, PAH analysis by EPA Method 8270, was conducted at monitor well MW-1A. A listing of BTEX constituent concentrations for 2016 are summarized in Table 2 and the 2016 PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2016 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-1A is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from less than the applicable laboratory MDL during the 2nd and 3rd quarters to 0.0172 mg/L during the 4th quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory guideline of 0.01 mg/L during the 4th quarter of 2016. Toluene concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines of 0.75 mg/L during all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from less than the applicable laboratory MDL during the 1st, 2nd, and 3rd quarters to 0.00620 mg/L during the 4th quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory guideline of 0.75 mg/L during all four (4) quarters of 2016. Xylene concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines of 0.62 mg/L during all four (4) quarters of the reporting period.

On November 2, 2016, based on the analytical results of the October 3, 2016 sampling event, monitor well MW-1A was re-sampled to confirm BTEX constituent concentrations. The analytical results indicated the benzene, toluene, ethylbenzene, and xylene concentrations were 0.0141 mg/L, <0.00100 mg/L, 0.00560 mg/L, and 0.00120 mg/L, respectively.

PAH analysis during the 4th quarter sampling event indicated all PAH concentrations were less than the applicable laboratory MDL. Please note, the laboratory was required to dilute the sample, which consequently raised the constituent reporting limits (0.000200 mg/L) above the applicable NMWQCC Drinking Water Standards for benzo[a]anthracene (0.0001 mg/L).

Monitor well MW-2 is sampled on a quarterly schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory standard for each constituent during all four (4) quarters of the reporting period. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 2nd quarter of 2005. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-3 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter of 2000. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-4 is sampled on a quarterly schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory standard for each constituent during all four (4) quarters of the reporting period. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter of 2006. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-5 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter of 2000. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter of 2001. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-8 is sampled on a semi-annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines during the 2nd and 4th quarter sampling events of the reporting period. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter of 2005. 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 guidelines found in Section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of monitoring activities for the 2016 annual monitoring period. Currently, seven (7) groundwater monitor wells (MW-1A, MW-2 through MW-5, MW-7, and MW-8) are on-site. During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

The most recent Groundwater Gradient Map, Figure 2D, indicated a general gradient of 0.016 feet per foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7.

A review of the laboratory analytical results for groundwater samples collected from the on-site monitor wells indicated BTEX constituent concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the 2016 reporting period, with the exception of monitor well MW-1A which exhibited a benzene concentration of 0.0172 mg/L.

Based on the results of previous PAH analysis, PAH analysis was conducted at monitor well MW-1A only.

ANTICIPATED ACTIONS

Groundwater monitoring and quarterly sampling will continue through the 4th quarter of 2017, at a minimum. Based on the analytical results of the four (4) quarterly groundwater sampling events, Plains may request the NMOCD consider cessation of groundwater sampling activities and approve groundwater and Site Closure.

If warranted, Plains will submit an Annual Monitoring Report before April 1, 2018.

LIMITATIONS

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

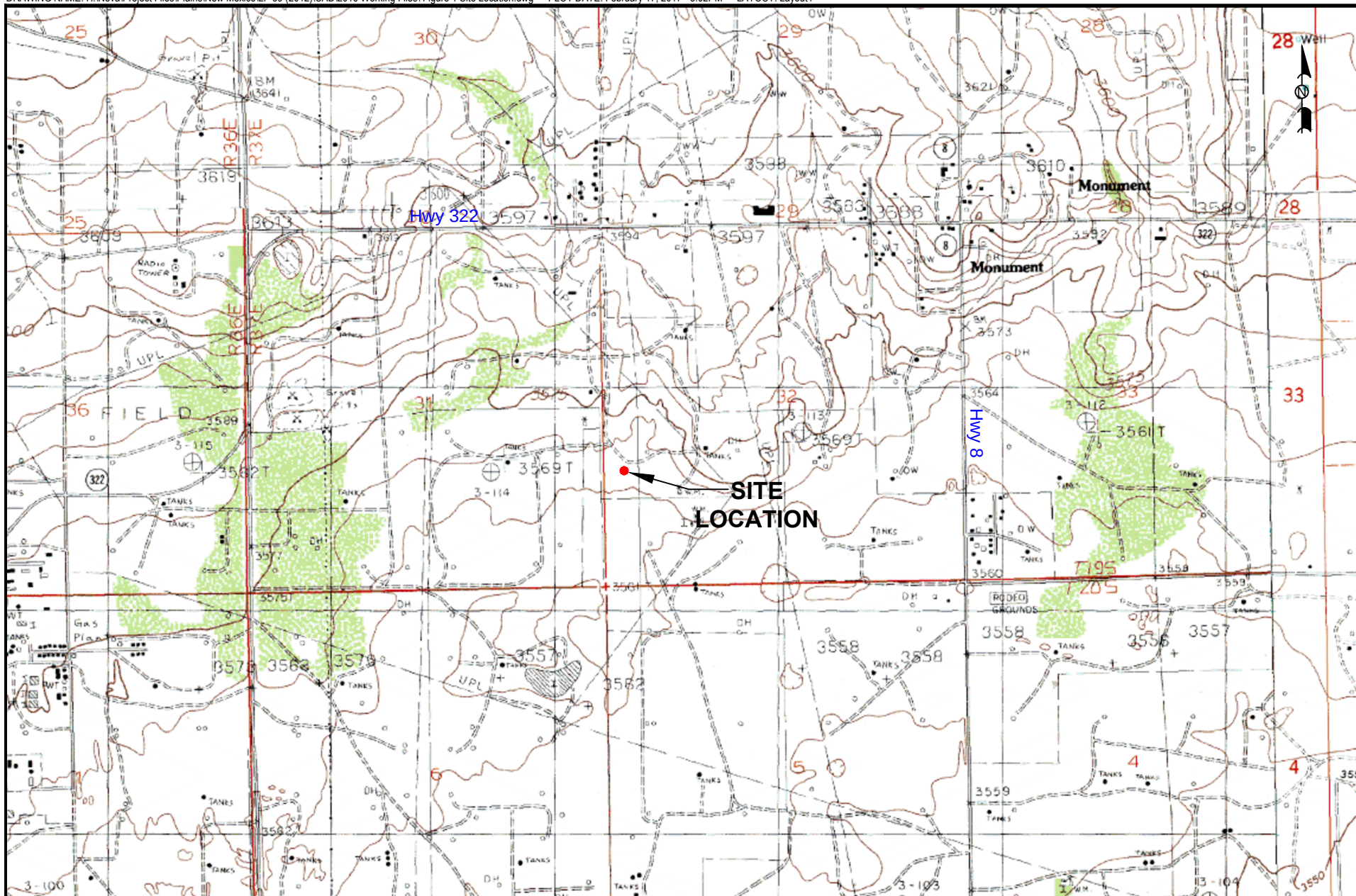
TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that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

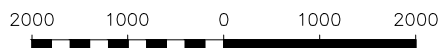
DISTRIBUTION

- Copy 1 Dr. Tomas Oberding
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Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
- Copy 2: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
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Hobbs, NM 88240
- Copy 3: Camille Bryant
Plains Marketing, L.P.
577 US Hwy 385 N
Seminole, TX 79360
cjbryant@paalp.com
- Copy 4: Jeff Dann
Plains Marketing, L.P.
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Suite 1600
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jpdann@paalp.com
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Midland, TX 79703
cdstanley@trcsolutions.com

Figures



LEGEND:



Distance in Feet

Figure 1

Site Location Map
Plains Marketing, L.P.

LF-59

NMOCD Reference # 1RP-103-0
Lea County, NM

Scale: 1" = 2000'

CAD By: TA

Checked By: CS

Draft: February 16, 2016

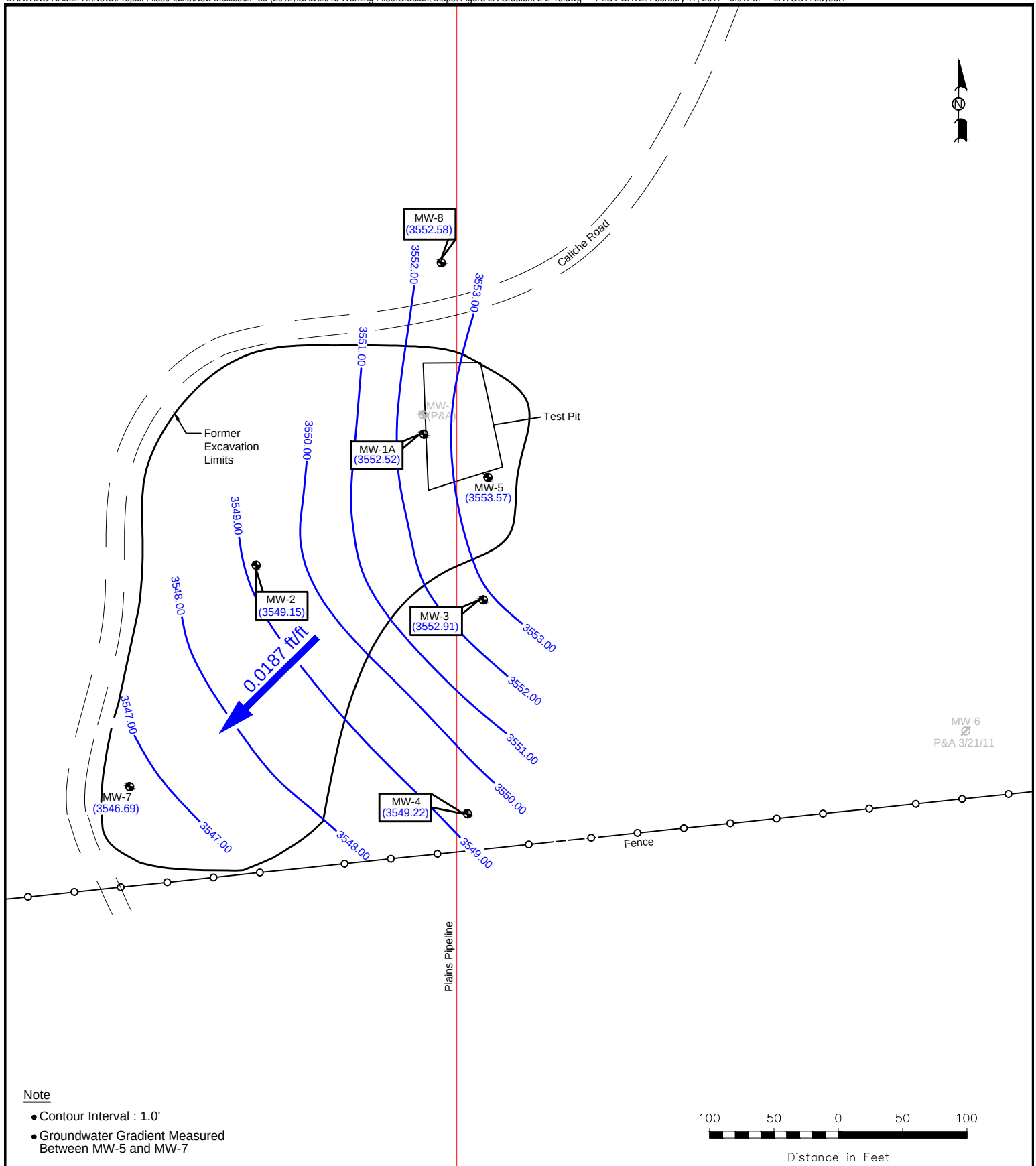
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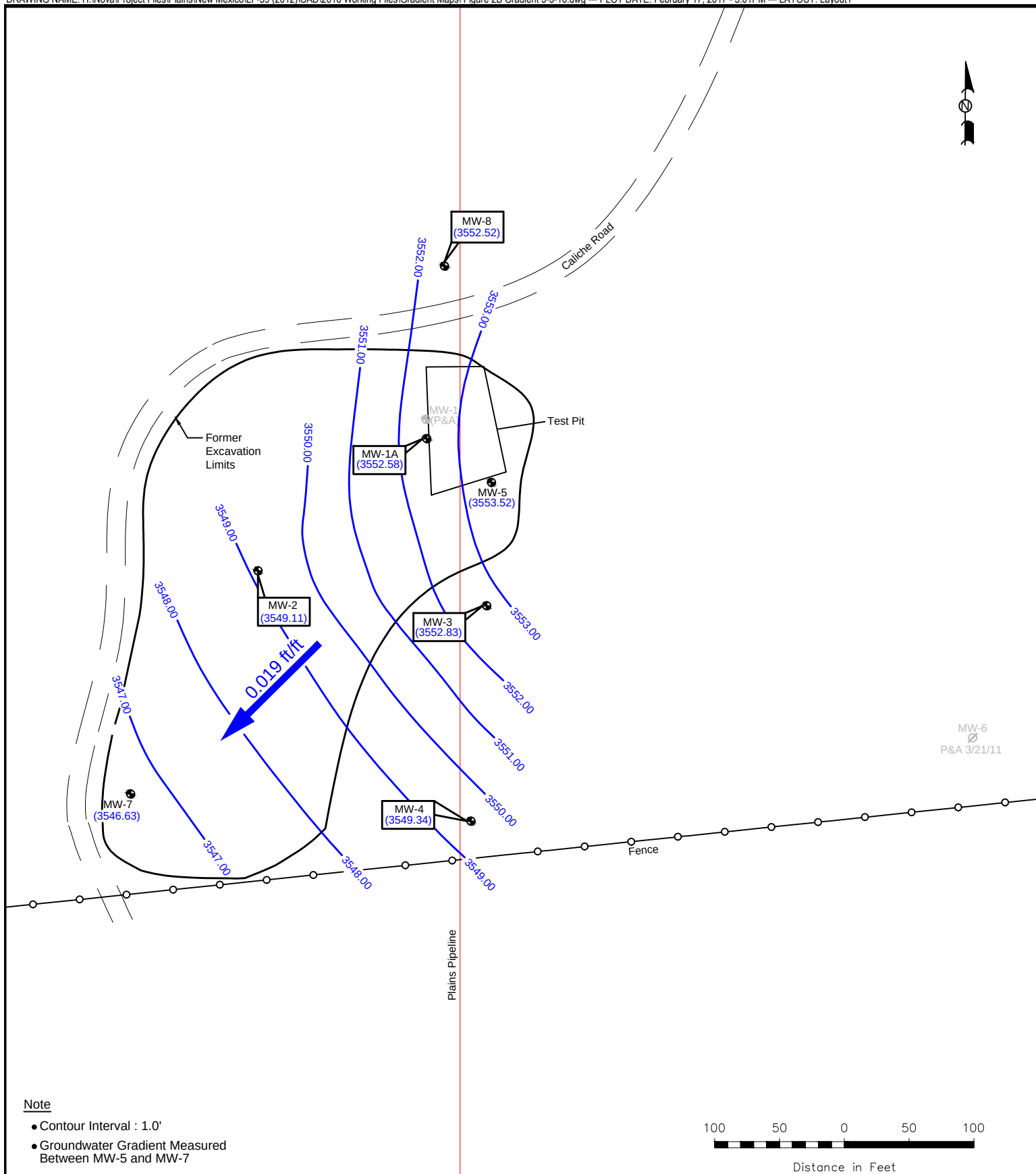
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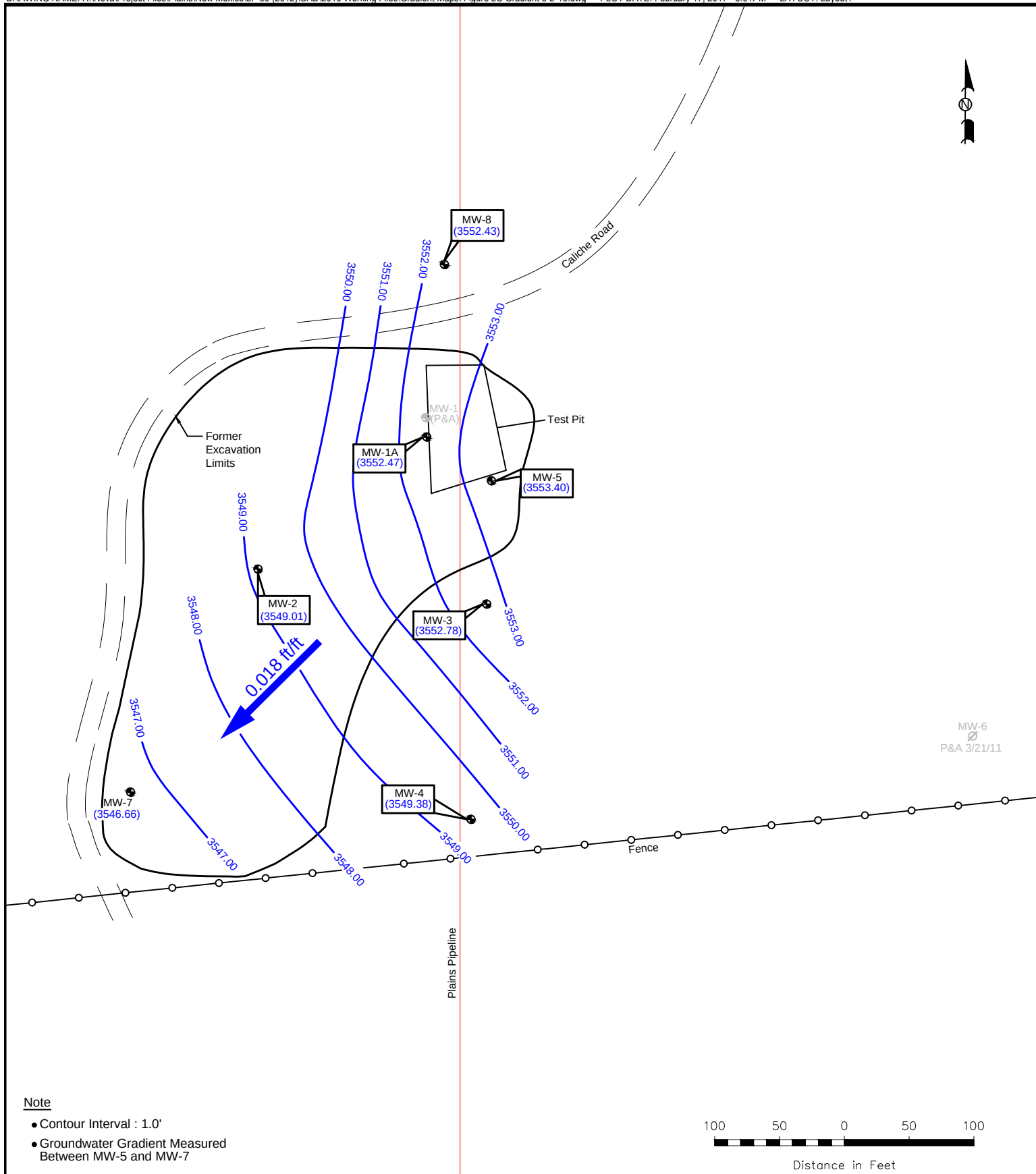
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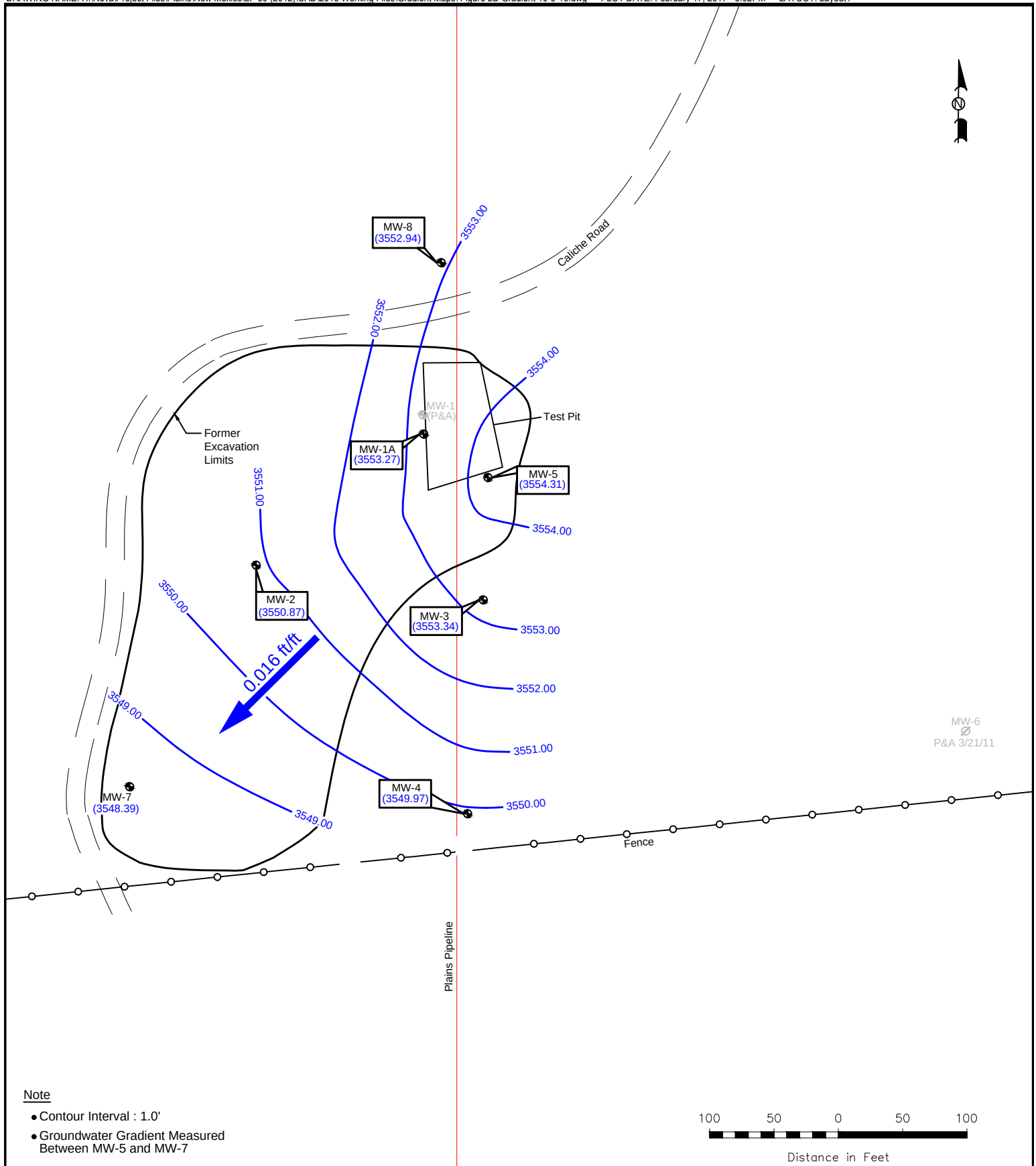


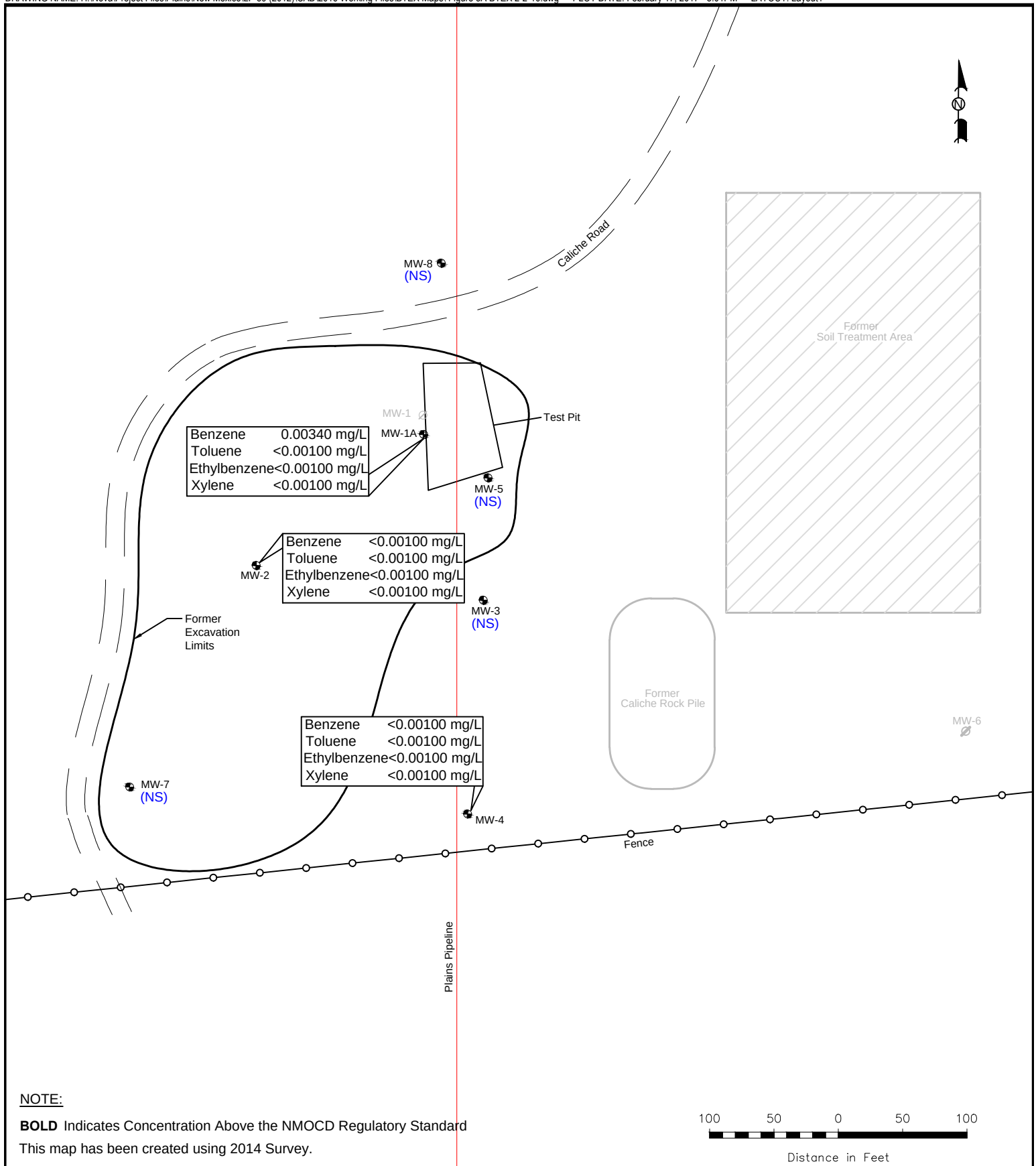
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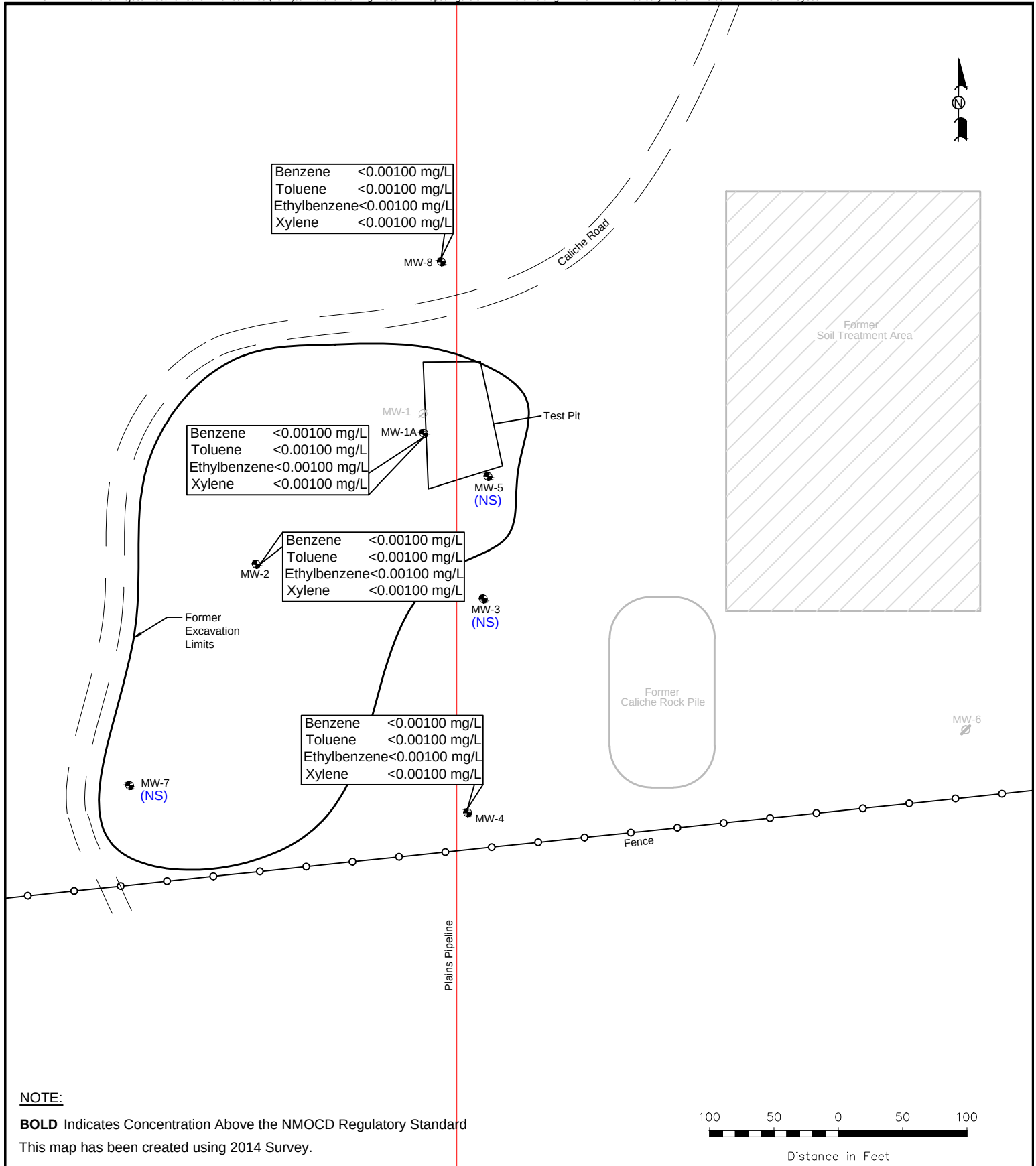




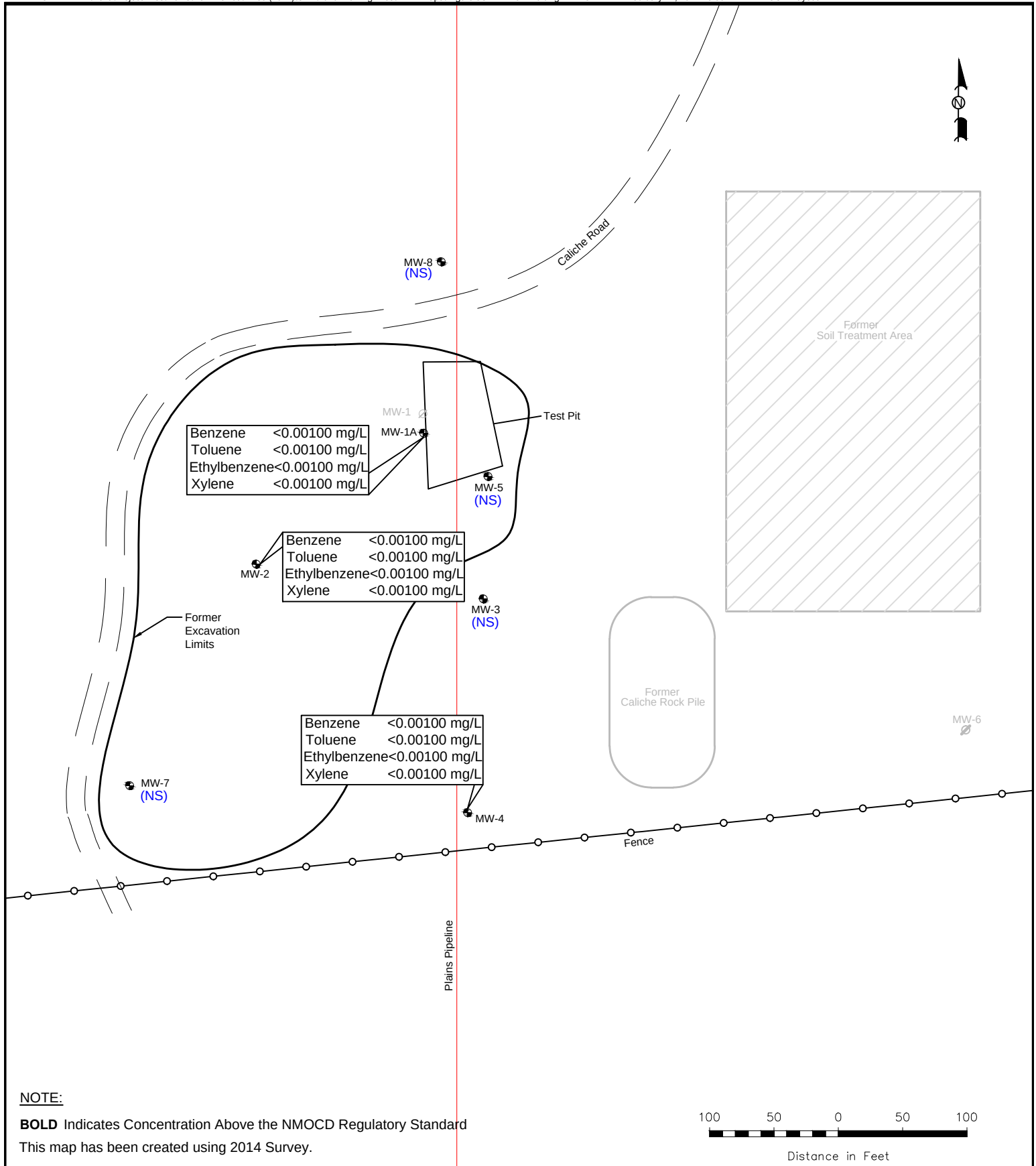


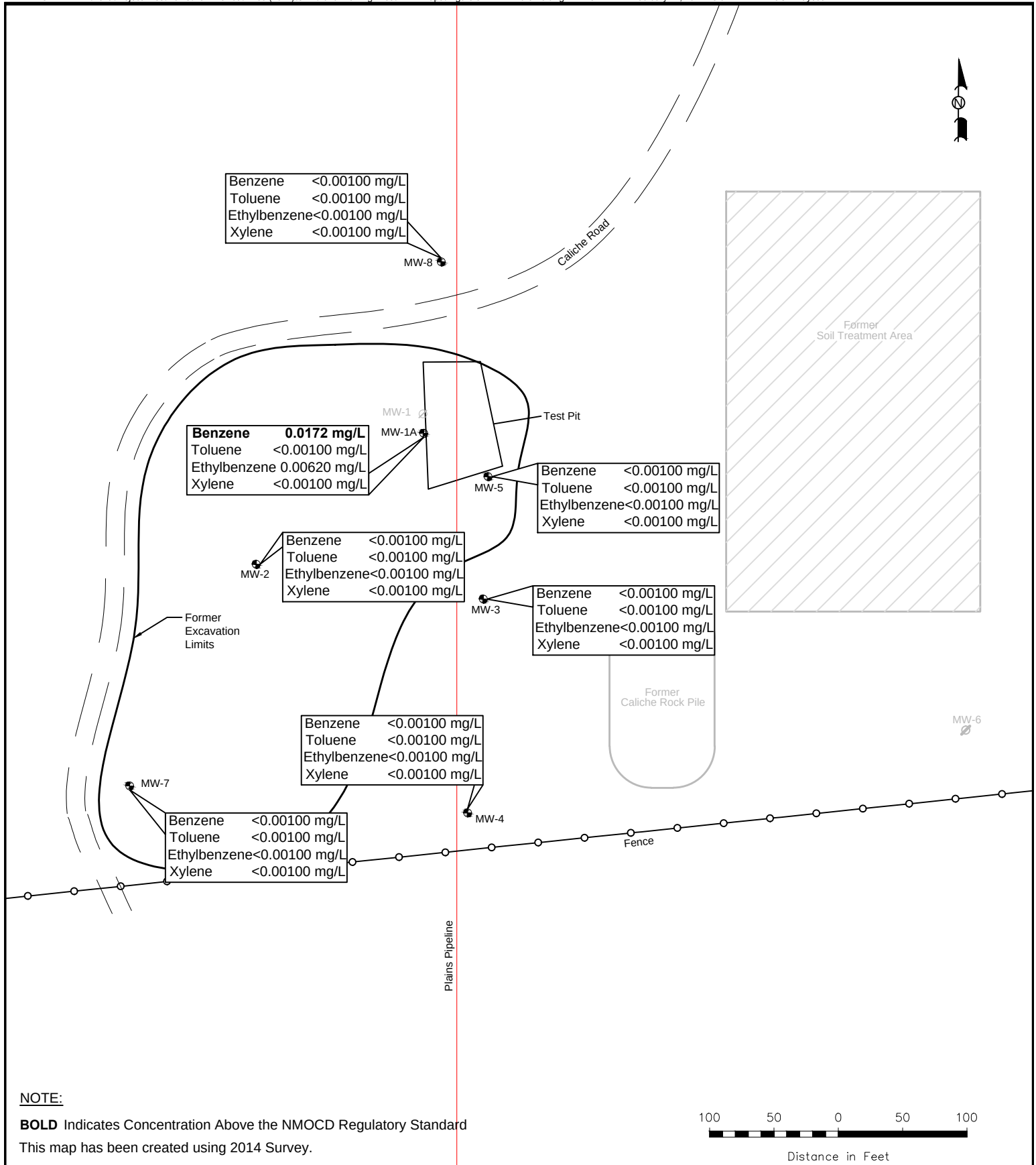






LEGEND: Monitor Well Location Plugged and Abandoned Well Pipeline <0.001 (NS) Not Sampled	Figure 3B Groundwater Concentration Inferred PSH Extent Map (5/3/2016) Plains Marketing, L.P. LF-59 NMOCD Reference # IRP-103-0 Lea County, NM	Scale: 1" = 100'		 2057 Commerce Drive Midland, Texas 79703 432.520.7720
		CAD By: TA	Checked By: CS	
		Draft: May 16, 2016		
		Lat. N 32.613916°, Long. W 103.279888°		
		NW1/4 SW1/4 Sec 32 T19S R37E		
TRC Proj. No.: 014168				





Tables

TABLE 1

2016 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1A	01/04/16	3,573.66	-	21.18	0.00	3,552.48
MW - 1A	01/07/16	3,573.66	-	21.16	0.00	3,552.50
MW - 1A	01/21/16	3,573.66	-	21.19	0.00	3,552.47
MW - 1A	02/02/16	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	02/22/16	3,573.66	-	21.03	0.00	3,552.63
MW - 1A	03/07/16	3,573.66	-	21.05	0.00	3,552.61
MW - 1A	03/28/16	3,573.66	-	21.05	0.00	3,552.61
MW - 1A	04/05/16	3,573.66	-	21.05	0.00	3,552.61
MW - 1A	04/22/16	3,573.66	-	21.07	0.00	3,552.59
MW - 1A	05/03/16	3,573.66	-	21.08	0.00	3,552.58
MW - 1A	06/06/16	3,573.66	-	21.13	0.00	3,552.53
MW - 1A	06/27/16	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	07/26/16	3,573.66	-	21.17	0.00	3,552.49
MW - 1A	08/02/16	3,573.66	-	21.19	0.00	3,552.47
MW - 1A	08/29/16	3,573.66	-	21.03	0.00	3,552.63
MW - 1A	09/20/16	3,573.66	-	20.43	0.00	3,553.23
MW - 1A	10/03/16	3,573.66	-	20.39	0.00	3,553.27
MW - 1A	10/25/16	3,573.66	-	20.71	0.00	3,552.95
MW - 1A	11/02/16	3,573.66	-	20.92	0.00	3,552.74
MW - 1A	12/02/16	3,573.66	-	21.09	0.00	3,552.57
MW - 1A	12/26/16	3,573.66	-	21.13	0.00	3,552.53
MW - 2	01/07/16	3,571.46	-	22.32	0.00	3,549.14
MW - 2	02/02/16	3,571.46	-	22.31	0.00	3,549.15
MW - 2	03/07/16	3,571.46	-	22.33	0.00	3,549.13
MW - 2	04/05/16	3,571.46	-	22.34	0.00	3,549.12
MW - 2	05/03/16	3,571.46	-	22.35	0.00	3,549.11
MW - 2	06/27/16	3,571.46	-	22.41	0.00	3,549.05
MW - 2	07/26/16	3,571.46	-	22.44	0.00	3,549.02
MW - 2	08/02/16	3,571.46	-	22.45	0.00	3,549.01
MW - 2	09/20/16	3,571.46	-	21.23	0.00	3,550.23
MW - 2	10/03/16	3,571.46	-	20.59	0.00	3,550.87
MW - 3	01/07/16	3,573.46	-	20.59	0.00	3,552.87
MW - 3	02/02/16	3,573.46	-	20.55	0.00	3,552.91
MW - 3	03/07/16	3,573.46	-	20.59	0.00	3,552.87
MW - 3	04/05/16	3,573.46	-	20.58	0.00	3,552.88
MW - 3	05/03/16	3,573.46	-	20.63	0.00	3,552.83
MW - 3	06/27/16	3,573.46	-	20.66	0.00	3,552.80
MW - 3	07/26/16	3,573.46	-	20.67	0.00	3,552.79
MW - 3	08/02/16	3,573.46	-	20.68	0.00	3,552.78
MW - 3	09/20/16	3,573.46	-	20.17	0.00	3,553.29
MW - 3	10/03/16	3,573.46	-	20.12	0.00	3,553.34
MW - 4	01/07/16	3,570.15	-	21.12	0.00	3,549.03
MW - 4	02/02/16	3,570.15	-	20.93	0.00	3,549.22
MW - 4	03/07/16	3,570.15	-	21.08	0.00	3,549.07
MW - 4	04/05/16	3,570.15	-	21.10	0.00	3,549.05
MW - 4	05/03/16	3,570.15	-	20.81	0.00	3,549.34
MW - 4	06/06/16	3,570.15	-	20.87	0.00	3,549.28

TABLE 1

2016 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	06/27/16	3,570.15	-	20.83	0.00	3,549.32
MW - 4	07/26/16	3,570.15	-	20.85	0.00	3,549.30
MW - 4	08/02/16	3,570.15	-	20.77	0.00	3,549.38
MW - 4	08/29/16	3,570.15	-	20.65	0.00	3,549.50
MW - 4	09/20/16	3,570.15	-	20.11	0.00	3,550.04
MW - 4	10/03/16	3,570.15	-	20.18	0.00	3,549.97
MW - 4	10/25/16	3,570.15	-	20.29	0.00	3,549.86
MW - 4	12/02/16	3,570.15	-	20.49	0.00	3,549.66
MW - 4	12/26/16	3,570.15	-	20.58	0.00	3,549.57
MW - 5	01/07/16	3,572.92	-	19.36	0.00	3,553.56
MW - 5	02/02/16	3,572.92	-	19.35	0.00	3,553.57
MW - 5	03/07/16	3,572.92	-	19.35	0.00	3,553.57
MW - 5	04/05/16	3,572.92	-	19.38	0.00	3,553.54
MW - 5	05/03/16	3,572.92	-	19.40	0.00	3,553.52
MW - 5	06/27/16	3,572.92	-	19.48	0.00	3,553.44
MW - 5	07/26/16	3,572.92	-	19.50	0.00	3,553.42
MW - 5	08/02/16	3,572.92	-	19.52	0.00	3,553.40
MW - 5	09/20/16	3,572.92	-	18.54	0.00	3,554.38
MW - 5	10/03/16	3,572.92	-	18.61	0.00	3,554.31
MW - 7	01/07/16	3,569.75	-	23.05	0.00	3,546.70
MW - 7	02/02/16	3,569.75	-	23.06	0.00	3,546.69
MW - 7	03/07/16	3,569.75	-	23.07	0.00	3,546.68
MW - 7	04/05/16	3,569.75	-	23.10	0.00	3,546.65
MW - 7	05/03/16	3,569.75	-	23.12	0.00	3,546.63
MW - 7	06/27/16	3,569.75	-	23.17	0.00	3,546.58
MW - 7	07/26/16	3,569.75	-	23.21	0.00	3,546.54
MW - 7	08/02/16	3,569.75	-	23.09	0.00	3,546.66
MW - 7	09/20/16	3,569.75	-	21.92	0.00	3,547.83
MW - 7	10/03/16	3,569.75	-	21.36	0.00	3,548.39
MW - 8	01/07/16	3,573.59	-	21.02	0.00	3,552.57
MW - 8	02/02/16	3,573.59	-	21.01	0.00	3,552.58
MW - 8	03/07/16	3,573.59	-	21.02	0.00	3,552.57
MW - 8	04/05/16	3,573.59	-	21.03	0.00	3,552.56
MW - 8	05/03/16	3,573.59	-	21.07	0.00	3,552.52
MW - 8	06/27/16	3,573.59	-	21.12	0.00	3,552.47
MW - 8	07/26/16	3,573.59	-	21.16	0.00	3,552.43
MW - 8	08/02/16	3,573.59	-	21.16	0.00	3,552.43
MW - 8	09/20/16	3,573.59	-	20.46	0.00	3,553.13
MW - 8	10/03/16	3,573.59	-	20.65	0.00	3,552.94
Note: "-" denotes no PSH measured during gauging.						
Elevations based on the North American Vertical Datum of 1929.						

TABLE 2

2016 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1A	02/02/16	0.00340	<0.00100	<0.00100	<0.00100	
MW - 1A	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	10/03/16	0.0172	<0.00100	0.00620	<0.00100	
MW - 1A	11/02/16	0.0141	<0.00100	0.00560	0.00120	
MW - 2	02/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/02/16	Not Sampled on Current Sample Schedule				
MW - 3	05/03/16	Not Sampled on Current Sample Schedule				
MW - 3	08/02/16	Not Sampled on Current Sample Schedule				
MW - 3	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/02/16	Not Sampled on Current Sample Schedule				
MW - 5	05/03/16	Not Sampled on Current Sample Schedule				
MW - 5	08/02/16	Not Sampled on Current Sample Schedule				
MW - 5	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/02/16	Not Sampled on Current Sample Schedule				
MW - 7	05/03/16	Not Sampled on Current Sample Schedule				
MW - 7	08/02/16	Not Sampled on Current Sample Schedule				
MW - 7	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/02/16	Not Sampled on Current Sample Schedule				
MW - 8	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/02/16	Not Sampled on Current Sample Schedule				
MW - 8	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	

Note: m,p and o xylenes combined when analyzed by Trace Laboratories, Inc. only.

EB-1 refers to equipment blank collected on the sampling date.

TABLE 3

2016 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM LF-59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

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[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-1A	10/03/16	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-2	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-3	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-4	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-5	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-7	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-8	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																	

Laboratory Reports



TRACEANALYSIS, INC.

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		915-585-3443	FAX 915-585-4944
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(BioAquatic) 2501 Mayes Rd., Suite 100	Carrollton, Texas 75006		972-242-7750	
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com				

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
TRC Solutions
2057 Commerce
Midland, Tx, 79703

Report Date: February 11, 2016

Work Order: 16020405



Project Name: LF-59
Project Number: TNM-LF-59

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
413617	MW 2	water	2016-02-02	12:07	2016-02-04
413618	MW 1A	water	2016-02-02	12:27	2016-02-04
413619	MW 4	water	2016-02-02	12:43	2016-02-04

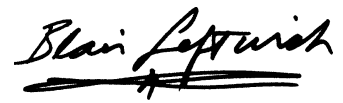
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2016-02-04 and assigned to work order 16020405. Samples for work order 16020405 were received intact at a temperature of 4.6 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	108403	2016-02-08 at 10:38	128077	2016-02-10 at 07:21
BTEX	S 8021B	108440	2016-02-09 at 13:10	128078	2016-02-10 at 07:25

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 16020405 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: 413617 - MW 2

Laboratory: Midland

Analysis: BTEX

QC Batch: 128077

Prep Batch: 108403

Analytical Method: S 8021B

Date Analyzed: 2016-02-10

Sample Preparation: 2016-02-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	1	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	u	1	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	u	1	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0955	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0890	mg/L	1	0.100	89	70 - 130

Sample: 413618 - MW 1A

Laboratory: Midland

Analysis: BTEX

QC Batch: 128077

Prep Batch: 108403

Analytical Method: S 8021B

Date Analyzed: 2016-02-10

Sample Preparation: 2016-02-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene		1	0.00340	0.00340	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	1	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	u	1	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	u	1	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0950	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0845	mg/L	1	0.100	84	70 - 130

Sample: 413619 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 128078

Prep Batch: 108440

Analytical Method: S 8021B

Date Analyzed: 2016-02-10

Sample Preparation: 2016-02-09

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	1	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	u	1	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	u	1	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0912	mg/L	1	0.100	91	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 128077
Prep Batch: 108403

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-08

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		1	<0.000504	mg/L	0.000504
Toluene		1	<0.000621	mg/L	0.000621
Ethylbenzene		1	<0.000763	mg/L	0.000763
Xylene		1	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0916	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0905	mg/L	1	0.100	90	70 - 130

Method Blank (1)

QC Batch: 128078
Prep Batch: 108440

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-09

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		1	<0.000504	mg/L	0.000504
Toluene		1	<0.000621	mg/L	0.000621
Ethylbenzene		1	<0.000763	mg/L	0.000763
Xylene		1	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0865	mg/L	1	0.100	86	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 128077
Prep Batch: 108403

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-08

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000504	104	70 - 130
Toluene		1	0.0924	mg/L	1	0.100	<0.000621	92	70 - 130
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000763	112	70 - 130
Xylene		1	0.278	mg/L	1	0.300	<0.000256	93	70 - 130

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	0.0995	mg/L	1	0.100	<0.000504	100	70 - 130	4	20
Toluene		1	0.0867	mg/L	1	0.100	<0.000621	87	70 - 130	6	20
Ethylbenzene		1	0.106	mg/L	1	0.100	<0.000763	106	70 - 130	6	20
Xylene		1	0.268	mg/L	1	0.300	<0.000256	89	70 - 130	4	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0898	0.0984	mg/L	1	0.100	90	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0869	0.0915	mg/L	1	0.100	87	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 128078
Prep Batch: 108440

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-09

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000504	104	70 - 130
Toluene		1	0.0897	mg/L	1	0.100	<0.000621	90	70 - 130
Ethylbenzene		1	0.107	mg/L	1	0.100	<0.000763	107	70 - 130
Xylene		1	0.267	mg/L	1	0.300	<0.000256	89	70 - 130

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

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000504	103	70 - 130	1	20
Toluene		1	0.0895	mg/L	1	0.100	<0.000621	90	70 - 130	0	20
Ethylbenzene		1	0.106	mg/L	1	0.100	<0.000763	106	70 - 130	1	20
Xylene		1	0.264	mg/L	1	0.300	<0.000256	88	70 - 130	1	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0933	0.0895	mg/L	1	0.100	93	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0937	0.0927	mg/L	1	0.100	94	93	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 413580

QC Batch: 128077
Prep Batch: 108403

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-08

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0962	mg/L	1	0.100	<0.000504	96	70 - 130
Toluene		1	0.0818	mg/L	1	0.100	<0.000621	82	70 - 130
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000763	100	70 - 130
Xylene		1	0.252	mg/L	1	0.300	<0.000256	84	70 - 130

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	0.102	mg/L	1	0.100	<0.000504	102	70 - 130	6	20
Toluene		1	0.0926	mg/L	1	0.100	<0.000621	93	70 - 130	12	20
Ethylbenzene		1	0.114	mg/L	1	0.100	<0.000763	114	70 - 130	13	20
Xylene		1	0.282	mg/L	1	0.300	<0.000256	94	70 - 130	11	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0924	0.0951	mg/L	1	0.1	92	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0929	0.0899	mg/L	1	0.1	93	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 413619

QC Batch: 128078
Prep Batch: 108440

Date Analyzed: 2016-02-10
QC Preparation: 2016-02-09

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000504	105	70 - 130
Toluene		1	0.0876	mg/L	1	0.100	<0.000621	88	70 - 130
Ethylbenzene		1	0.105	mg/L	1	0.100	<0.000763	105	70 - 130
Xylene		1	0.261	mg/L	1	0.300	<0.000256	87	70 - 130

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

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000504	107	70 - 130	2	20
Toluene		1	0.0911	mg/L	1	0.100	<0.000621	91	70 - 130	4	20
Ethylbenzene		1	0.108	mg/L	1	0.100	<0.000763	108	70 - 130	3	20
Xylene		1	0.270	mg/L	1	0.300	<0.000256	90	70 - 130	3	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0928	0.102	mg/L	1	0.1	93	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0907	0.0966	mg/L	1	0.1	91	97	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 128077

Date Analyzed: 2016-02-10

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2016-02-10
Toluene		1	mg/L	0.100	0.0911	91	80 - 120	2016-02-10
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2016-02-10
Xylene		1	mg/L	0.300	0.270	90	80 - 120	2016-02-10

Standard (CCV-3)

QC Batch: 128077

Date Analyzed: 2016-02-10

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2016-02-10
Toluene		1	mg/L	0.100	0.0910	91	80 - 120	2016-02-10
Ethylbenzene		1	mg/L	0.100	0.108	108	80 - 120	2016-02-10
Xylene		1	mg/L	0.300	0.268	89	80 - 120	2016-02-10

Standard (CCV-1)

QC Batch: 128078

Date Analyzed: 2016-02-10

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2016-02-10
Toluene		1	mg/L	0.100	0.0910	91	80 - 120	2016-02-10
Ethylbenzene		1	mg/L	0.100	0.108	108	80 - 120	2016-02-10
Xylene		1	mg/L	0.300	0.268	89	80 - 120	2016-02-10

Standard (CCV-2)

QC Batch: 128078

Date Analyzed: 2016-02-10

Analyzed By: AK

Param	F	C	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	2016-02-10
Toluene		1	mg/L	0.100	0.0871	87	80 - 120	2016-02-10
Ethylbenzene		1	mg/L	0.100	0.106	106	80 - 120	2016-02-10
Xylene		1	mg/L	0.300	0.258	86	80 - 120	2016-02-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	water	BTEX-2	Benzene	0.000500	Pass
BTEX	S 8021B	water	BTEX-2	Toluene	0.000500	Pass
BTEX	S 8021B	water	BTEX-2	Ethylbenzene	0.000500	Pass
BTEX	S 8021B	water	BTEX-2	Xylene	0.000500	Pass

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	T104704392-14-8	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.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name:

Phone #: 432) 520-7720
Fax #:

Address: _____ (Street, City, Zip)

2057 Commerce Dr. Mid and Tx 79703

E-mail:

Invoice to: East Stanley

Invoice to:
(If different from above)

Project #:

TNm - 2F-59

Project Location (including state):

Sampler Signature:

re: Marved

[illegible]

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

REMARKS:

LAB USE ONLY

INST 52
OBS 4.9°C
COR 1.2°C

Date: 4/16 Time: 8:20

Received by: W. B. T. A. Company: W. B. T. A.

Date: Time: 2-3-11 08

Relinquished by: 11-1 Company: Top

Date: _____ Time: _____

Received by: Company:

Date: 8-2-16 Time: 10:00

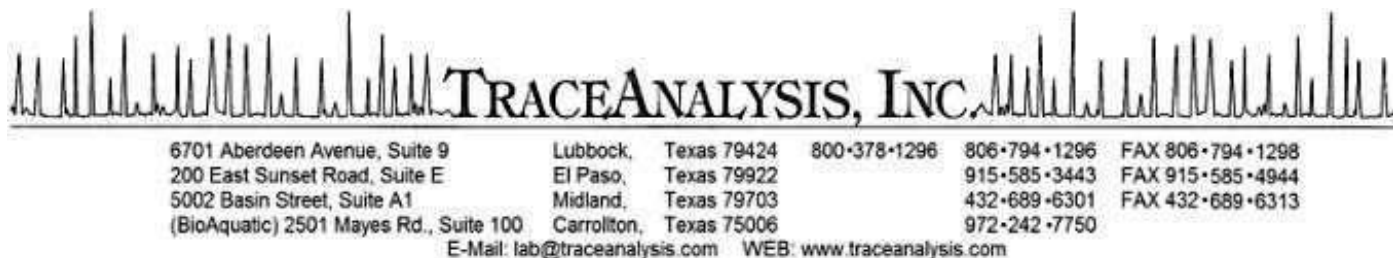
Relinquished by: Allyle Company: FR

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # Century



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
TRC Solutions
2057 Commerce
Midland, Tx, 79703

Report Date: May 6, 2016

Work Order: 16050402



Project Name: LF-59
Project Number: TNM-LF-59

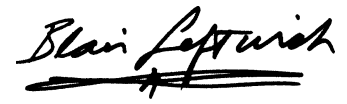
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
418493	MW 8	water	2016-05-03	12:05	2016-05-04
418494	MW 2	water	2016-05-03	12:35	2016-05-04
418495	MW 1A	water	2016-05-03	12:57	2016-05-04
418496	MW 4	water	2016-05-03	13:23	2016-05-04

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath the name.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2016-05-04 and assigned to work order 16050402. Samples for work order 16050402 were received intact at a temperature of 9.0 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	110053	2016-05-04 at 08:04	129908	2016-05-05 at 08:04

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 16050402 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: 418493 - MW 8

Laboratory: Midland
Analysis: BTEX
QC Batch: 129908
Prep Batch: 110053

Analytical Method: S 8021B
Date Analyzed: 2016-05-05
Sample Preparation: 2016-05-04

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0957	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0862	mg/L	1	0.100	86	70 - 130

Sample: 418494 - MW 2

Laboratory: Midland
Analysis: BTEX
QC Batch: 129908
Prep Batch: 110053

Analytical Method: S 8021B
Date Analyzed: 2016-05-05
Sample Preparation: 2016-05-04

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0969	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0895	mg/L	1	0.100	90	70 - 130

Report Date: May 6, 2016
TNM-LF-59

Work Order: 16050402
LF-59

Page Number: 6 of 12

Sample: 418495 - MW 1A

Laboratory: Midland

Analysis: BTEX

QC Batch: 129908

Prep Batch: 110053

Analytical Method: S 8021B

Date Analyzed: 2016-05-05

Sample Preparation: 2016-05-04

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0992	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0931	mg/L	1	0.100	93	70 - 130

Sample: 418496 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 129908

Prep Batch: 110053

Analytical Method: S 8021B

Date Analyzed: 2016-05-05

Sample Preparation: 2016-05-04

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	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	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0910	mg/L	1	0.100	91	70 - 130

Method Blanks

Method Blank (1) QC Batch: 129908

QC Batch: 129908
Prep Batch: 110053

Date Analyzed: 2016-05-05
QC Preparation: 2016-05-04

Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000504	mg/L	0.001
Toluene		1	<0.000621	mg/L	0.001
Ethylbenzene		1	<0.000763	mg/L	0.001
Xylene		1	<0.000256	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0961	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0843	mg/L	1	0.100	84	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 129908
Prep Batch: 110053

Date Analyzed: 2016-05-05
QC Preparation: 2016-05-04

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0877	mg/L	1	0.100	<0.000504	88	70 - 130
Toluene		1	0.0940	mg/L	1	0.100	<0.000621	94	70 - 130
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000763	102	70 - 130
Xylene		1	0.315	mg/L	1	0.300	<0.000256	105	70 - 130

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0906	mg/L	1	0.100	<0.000504	91	70 - 130	3	20
Toluene		1	0.0970	mg/L	1	0.100	<0.000621	97	70 - 130	3	20
Ethylbenzene		1	0.104	mg/L	1	0.100	<0.000763	104	70 - 130	2	20
Xylene		1	0.325	mg/L	1	0.300	<0.000256	108	70 - 130	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0929	0.0960	mg/L	1	0.100	93	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.108	mg/L	1	0.100	103	108	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 418493

QC Batch: 129908
Prep Batch: 110053

Date Analyzed: 2016-05-05
QC Preparation: 2016-05-04

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0902	mg/L	1	0.100	<0.000504	90	70 - 130
Toluene		1	0.0963	mg/L	1	0.100	<0.000621	96	70 - 130
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000763	102	70 - 130
Xylene		1	0.319	mg/L	1	0.300	<0.000256	106	70 - 130

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	0.0904	mg/L	1	0.100	<0.000504	90	70 - 130	0	20
Toluene		1	0.0962	mg/L	1	0.100	<0.000621	96	70 - 130	0	20
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000763	102	70 - 130	0	20
Xylene		1	0.321	mg/L	1	0.300	<0.000256	107	70 - 130	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)	0.0936	0.0989	mg/L	1	0.1	94	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.105	0.106	mg/L	1	0.1	105	106	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 129908

Date Analyzed: 2016-05-05

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0890	89	80 - 120	2016-05-05
Toluene		1	mg/L	0.100	0.0944	94	80 - 120	2016-05-05
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2016-05-05
Xylene		1	mg/L	0.300	0.316	105	80 - 120	2016-05-05

Standard (CCV-2)

QC Batch: 129908

Date Analyzed: 2016-05-05

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0890	89	80 - 120	2016-05-05
Toluene		1	mg/L	0.100	0.0951	95	80 - 120	2016-05-05
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2016-05-05
Xylene		1	mg/L	0.300	0.316	105	80 - 120	2016-05-05

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	T104704392-14-8	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.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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

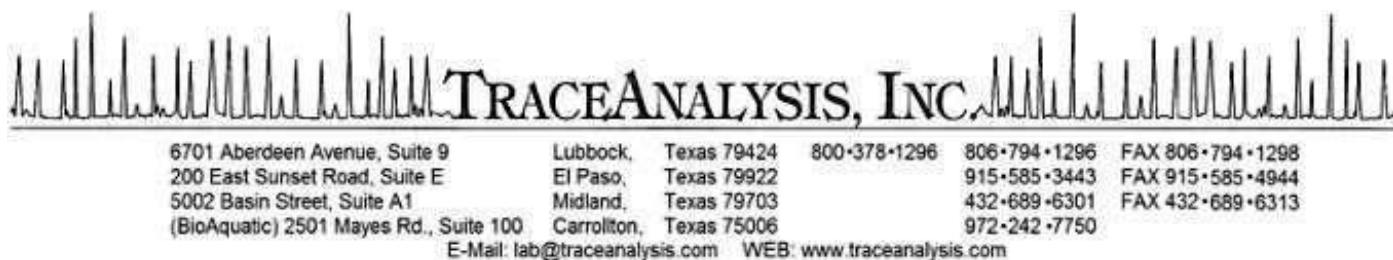
Attachments

Report Date: May 6, 2016
TNM-LF-59

Work Order: 16050402
LF-59

Page Number: 12 of 12

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



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
TRC Solutions
2057 Commerce
Midland, Tx, 79703

Report Date: August 10, 2016

Work Order: 16080304



Project Name: LF-59
Project Number: TNM-LF-59

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
425603	MW 2	water	2016-08-02	12:48	2016-08-03
425604	MW- 1A	water	2016-08-02	13:05	2016-08-03
425605	MW 4	water	2016-08-02	13:33	2016-08-03

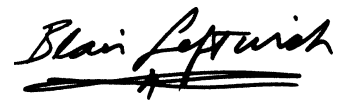
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end of the last name.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2016-08-03 and assigned to work order 16080304. Samples for work order 16080304 were received intact at a temperature of 15.5 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	111785	2016-08-04 at 13:32	131965	2016-08-05 at 15:00
BTEX	S 8021B	111858	2016-08-08 at 08:37	132001	2016-08-09 at 11:04

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 16080304 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: 425603 - MW 2

Laboratory: Midland
Analysis: BTEX
QC Batch: 131965
Prep Batch: 111785

Analytical Method: S 8021B
Date Analyzed: 2016-08-05
Sample Preparation: 2016-08-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0944	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0768	mg/L	1	0.100	77	70 - 130

Sample: 425604 - MW- 1A

Laboratory: Midland
Analysis: BTEX
QC Batch: 132001
Prep Batch: 111858

Analytical Method: S 8021B
Date Analyzed: 2016-08-09
Sample Preparation: 2016-08-08

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0959	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0890	mg/L	1	0.100	89	70 - 130

Report Date: August 10, 2016
TNM-LF-59

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Sample: 425605 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 132001

Prep Batch: 111858

Analytical Method: S 8021B

Date Analyzed: 2016-08-09

Sample Preparation: 2016-08-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0941	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0700	mg/L	1	0.100	70	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 131965
Prep Batch: 111785

Date Analyzed: 2016-08-05
QC Preparation: 2016-08-04

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		4	<0.000504	mg/L	0.000504
Toluene		4	<0.000621	mg/L	0.000621
Ethylbenzene		4	<0.000763	mg/L	0.000763
Xylene		4	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0864	mg/L	1	0.100	86	70 - 130

Method Blank (1)

QC Batch: 132001
Prep Batch: 111858

Date Analyzed: 2016-08-09
QC Preparation: 2016-08-08

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		4	<0.000504	mg/L	0.000504
Toluene		4	<0.000621	mg/L	0.000621
Ethylbenzene		4	<0.000763	mg/L	0.000763
Xylene		4	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0978	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0899	mg/L	1	0.100	90	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 131965
Prep Batch: 111785

Date Analyzed: 2016-08-05
QC Preparation: 2016-08-04

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.101	mg/L	1.06	0.100	<0.000534	101	70 - 130
Toluene		4	0.106	mg/L	1.06	0.100	<0.000658	106	70 - 130
Ethylbenzene		4	0.106	mg/L	1.06	0.100	<0.000809	106	70 - 130
Xylene		4	0.309	mg/L	1.06	0.300	<0.000271	103	70 - 130

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		4	0.105	mg/L	1.06	0.100	<0.000534	105	70 - 130	4	20
Toluene		4	0.109	mg/L	1.06	0.100	<0.000658	109	70 - 130	3	20
Ethylbenzene		4	0.109	mg/L	1.06	0.100	<0.000809	109	70 - 130	3	20
Xylene		4	0.320	mg/L	1.06	0.300	<0.000271	107	70 - 130	4	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.107	0.108	mg/L	1.06	0.100	107	108	70 - 130
4-Bromofluorobenzene (4-BFB)			0.120	0.121	mg/L	1.06	0.100	120	121	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 132001
Prep Batch: 111858

Date Analyzed: 2016-08-09
QC Preparation: 2016-08-08

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.101	mg/L	1.06	0.100	<0.000534	101	70 - 130
Toluene		4	0.0995	mg/L	1.06	0.100	<0.000658	100	70 - 130
Ethylbenzene		4	0.0951	mg/L	1.06	0.100	<0.000809	95	70 - 130
Xylene		4	0.288	mg/L	1.06	0.300	<0.000271	96	70 - 130

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

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	0.103	mg/L	1.06	0.100	<0.000534	103	70 - 130	2	20
Toluene		4	0.102	mg/L	1.06	0.100	<0.000658	102	70 - 130	2	20
Ethylbenzene		4	0.0976	mg/L	1.06	0.100	<0.000809	98	70 - 130	3	20
Xylene		4	0.296	mg/L	1.06	0.300	<0.000271	99	70 - 130	3	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.107	0.106	mg/L	1.06	0.100	107	106	70 - 130
4-Bromofluorobenzene (4-BFB)			0.107	0.107	mg/L	1.06	0.100	107	107	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 425603

QC Batch: 131965
Prep Batch: 111785

Date Analyzed: 2016-08-05
QC Preparation: 2016-08-04

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.101	mg/L	1.06	0.100	<0.000534	101	70 - 130
Toluene		4	0.104	mg/L	1.06	0.100	<0.000658	104	70 - 130
Ethylbenzene		4	0.103	mg/L	1.06	0.100	<0.000809	103	70 - 130
Xylene		4	0.300	mg/L	1.06	0.300	<0.000271	100	70 - 130

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		4	0.102	mg/L	1.06	0.100	<0.000534	102	70 - 130	1	20
Toluene		4	0.105	mg/L	1.06	0.100	<0.000658	105	70 - 130	1	20
Ethylbenzene		4	0.104	mg/L	1.06	0.100	<0.000809	104	70 - 130	1	20
Xylene		4	0.307	mg/L	1.06	0.300	<0.000271	102	70 - 130	2	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.104	0.102	mg/L	1.06	0.1	104	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.112	0.111	mg/L	1.06	0.1	112	111	70 - 130

Matrix Spike (MS-1) Spiked Sample: 425604

QC Batch: 132001
Prep Batch: 111858

Date Analyzed: 2016-08-09
QC Preparation: 2016-08-08

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.103	mg/L	1.06	0.100	<0.000534	103	70 - 130
Toluene		4	0.101	mg/L	1.06	0.100	<0.000658	101	70 - 130
Ethylbenzene		4	0.0959	mg/L	1.06	0.100	<0.000809	96	70 - 130
Xylene		4	0.288	mg/L	1.06	0.300	<0.000271	96	70 - 130

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

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	0.103	mg/L	1.06	0.100	<0.000534	103	70 - 130	0	20
Toluene		4	0.101	mg/L	1.06	0.100	<0.000658	101	70 - 130	0	20
Ethylbenzene		4	0.0958	mg/L	1.06	0.100	<0.000809	96	70 - 130	0	20
Xylene		4	0.289	mg/L	1.06	0.300	<0.000271	96	70 - 130	0	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.100	0.0988	mg/L	1.06	0.1	100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.103	0.102	mg/L	1.06	0.1	103	102	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 131965

Date Analyzed: 2016-08-05

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.103	103	80 - 120	2016-08-05
Toluene		4	mg/L	0.100	0.107	107	80 - 120	2016-08-05
Ethylbenzene		4	mg/L	0.100	0.107	107	80 - 120	2016-08-05
Xylene		4	mg/L	0.300	0.312	104	80 - 120	2016-08-05

Standard (CCV-2)

QC Batch: 131965

Date Analyzed: 2016-08-05

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.104	104	80 - 120	2016-08-05
Toluene		4	mg/L	0.100	0.107	107	80 - 120	2016-08-05
Ethylbenzene		4	mg/L	0.100	0.105	105	80 - 120	2016-08-05
Xylene		4	mg/L	0.300	0.305	102	80 - 120	2016-08-05

Standard (CCV-1)

QC Batch: 132001

Date Analyzed: 2016-08-09

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.116	116	80 - 120	2016-08-09
Toluene		4	mg/L	0.100	0.115	115	80 - 120	2016-08-09
Ethylbenzene		4	mg/L	0.100	0.110	110	80 - 120	2016-08-09
Xylene		4	mg/L	0.300	0.332	111	80 - 120	2016-08-09

Standard (CCV-2)

QC Batch: 132001

Date Analyzed: 2016-08-09

Analyzed By: AK

Report Date: August 10, 2016
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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.0984	98	80 - 120	2016-08-09
Toluene		4	mg/L	0.100	0.0978	98	80 - 120	2016-08-09
Ethylbenzene		4	mg/L	0.100	0.0923	92	80 - 120	2016-08-09
Xylene		4	mg/L	0.300	0.273	91	80 - 120	2016-08-09

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	Pass
					Amount	
BTEX	S 8021B	water	BTEX-2	Benzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Toluene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Ethylbenzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Xylene	0.000768	Pass

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	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	NELAP	T104704219-16-12	Lubbock
4	NELAP	T104704392-14-8	Midland
5		2015-066	Lubbock

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.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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

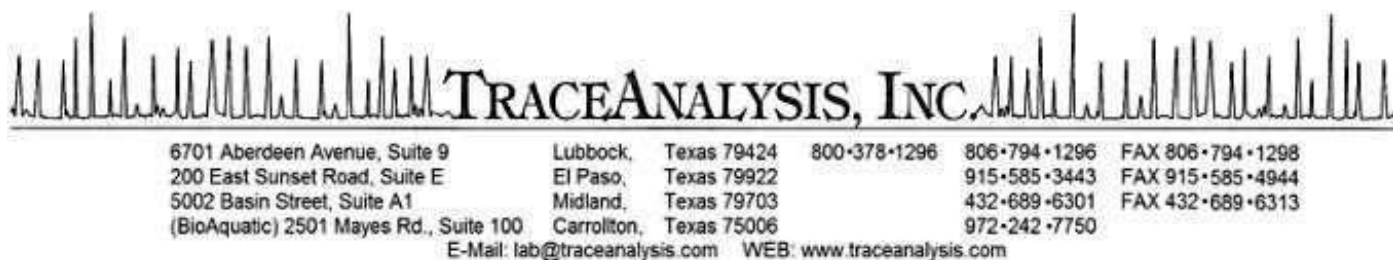
Attachments

Report Date: August 10, 2016
TNM-LF-59

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



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
TRC Solutions
2057 Commerce
Midland, Tx, 79703

Report Date: October 17, 2016

Work Order: 16100401



Project Name: LF-59
Project Number: TNM-LF-59

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
429566	MW 3	water	2016-10-03	12:50	2016-10-04
429567	MW 5	water	2016-10-03	13:06	2016-10-04
429568	MW 7	water	2016-10-03	13:28	2016-10-04
429569	MW 8	water	2016-10-03	13:48	2016-10-04
429570	MW 2	water	2016-10-03	14:10	2016-10-04
429571	MW 4	water	2016-10-03	14:31	2016-10-04
429572	MW 1A	water	2016-10-03	15:00	2016-10-04

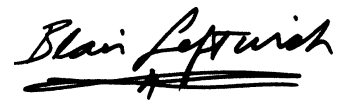
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end of the last name.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2016-10-04 and assigned to work order 16100401. Samples for work order 16100401 were received intact at a temperature of 4.8 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	112904	2016-10-07 at 12:30	133198	2016-10-08 at 11:00
BTEX	S 8021B	112911	2016-10-10 at 07:59	133247	2016-10-11 at 12:28
PAH	S 8270D	113040	2016-10-07 at 15:00	133346	2016-10-17 at 13:06

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 16100401 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: 429566 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 133198
Prep Batch: 112904

Analytical Method: S 8021B
Date Analyzed: 2016-10-08
Sample Preparation: 2016-10-07

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

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	Qr,u	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	Qr,u	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0868	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0771	mg/L	1	0.100	77	70 - 130

Sample: 429567 - MW 5

Laboratory: Midland
Analysis: BTEX
QC Batch: 133198
Prep Batch: 112904

Analytical Method: S 8021B
Date Analyzed: 2016-10-08
Sample Preparation: 2016-10-07

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

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	Qr,u	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	Qr,u	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0825	mg/L	1	0.100	82	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0722	mg/L	1	0.100	72	70 - 130

Sample: 429568 - MW 7

Laboratory: Midland

Analysis: BTEX

QC Batch: 133198

Prep Batch: 112904

Analytical Method: S 8021B

Date Analyzed: 2016-10-08

Sample Preparation: 2016-10-07

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	Qr,U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	Qr,U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0882	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0777	mg/L	1	0.100	78	70 - 130

Sample: 429569 - MW 8

Laboratory: Midland

Analysis: BTEX

QC Batch: 133198

Prep Batch: 112904

Analytical Method: S 8021B

Date Analyzed: 2016-10-08

Sample Preparation: 2016-10-07

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	Qr,U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	Qr,U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0888	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0778	mg/L	1	0.100	78	70 - 130

Sample: 429570 - MW 2

Laboratory: Midland

Analysis: BTEX

QC Batch: 133247

Analytical Method: S 8021B

Date Analyzed: 2016-10-11

Prep Method: S 5030B

Analyzed By: AK

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Prep Batch: 112911

Sample Preparation: 2016-10-10

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0912	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0817	mg/L	1	0.100	82	70 - 130

Sample: 429571 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 133247

Prep Batch: 112911

Analytical Method: S 8021B

Date Analyzed: 2016-10-11

Sample Preparation: 2016-10-10

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	4	<0.000504	<0.00100	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene	U	4	<0.000763	<0.00100	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0903	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0792	mg/L	1	0.100	79	70 - 130

Sample: 429572 - MW 1A

Laboratory: Midland

Analysis: BTEX

QC Batch: 133247

Prep Batch: 112911

Analytical Method: S 8021B

Date Analyzed: 2016-10-11

Sample Preparation: 2016-10-10

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene		4	0.0172	0.0172	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	U	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene		4	0.00620	0.00620	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene	U	4	<0.000256	<0.00100	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0894	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0809	mg/L	1	0.100	81	70 - 130

Sample: 429572 - MW 1A

Laboratory: Lubbock
Analysis: PAH
QC Batch: 133346
Prep Batch: 113040

Analytical Method: S 8270D
Date Analyzed: 2016-10-17
Sample Preparation: 2016-10-07

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Naphthalene	U	1,2,3,5	<0.0000656	<0.000200	<0.0000656	mg/L	1	0.0000656	0.0002	6.56e-05
2-Methylnaphthalene	U	1,2,3,5	<0.0000516	<0.000200	<0.0000516	mg/L	1	0.0000516	0.0002	5.16e-05
1-Methylnaphthalene	U	1	<0.0000663	<0.000200	<0.0000663	mg/L	1	0.0000663	0.0002	6.63e-05
Acenaphthylene	U	1,2,3,5	<0.0000581	<0.000200	<0.0000581	mg/L	1	0.0000581	0.0002	5.81e-05
Acenaphthene	U	1,2,3,5	<0.0000332	<0.000200	<0.0000332	mg/L	1	0.0000332	0.0002	3.32e-05
Dibenzofuran	U	1,2,3,5	<0.0000607	<0.000200	<0.0000607	mg/L	1	0.0000607	0.0002	6.07e-05
Fluorene	Qr,U	1,2,3,5	<0.0000788	<0.000200	<0.0000788	mg/L	1	0.0000788	0.0002	7.88e-05
Anthracene	U	1,2,3,5	<0.0000321	<0.000200	<0.0000321	mg/L	1	0.0000321	0.0002	3.21e-05
Phenanthrene	U	1,2,3,5	<0.0000516	<0.000200	<0.0000516	mg/L	1	0.0000516	0.0002	5.16e-05
Fluoranthene	U	1,2,3,5	<0.0000638	<0.000200	<0.0000638	mg/L	1	0.0000638	0.0002	6.38e-05
Pyrene	U	1,2,3,5	<0.0000415	<0.000200	<0.0000415	mg/L	1	0.0000415	0.0002	4.15e-05
Benzo(a)anthracene	Qr,U	1,2,3,5	<0.0000721	<0.000200	<0.0000721	mg/L	1	0.0000721	0.0002	7.21e-05
Chrysene	U	1,2,3,5	<0.0000811	<0.000200	<0.0000811	mg/L	1	0.0000811	0.0002	8.11e-05
Benzo(b)fluoranthene	Qr,U	1,2,3,5	<0.0000710	<0.000200	<0.0000710	mg/L	1	0.0000710	0.0002	7.1e-05
Benzo(k)fluoranthene	Qr,U	1,2,3,5	<0.0000561	<0.000200	<0.0000561	mg/L	1	0.0000561	0.0002	5.61e-05
Benzo(a)pyrene	Qr,U	1,2,3,5	<0.0000418	<0.000200	<0.0000418	mg/L	1	0.0000418	0.0002	4.18e-05
Indeno(1,2,3-cd)pyrene	U	1,2,3,5	<0.0000537	<0.000200	<0.0000537	mg/L	1	0.0000537	0.0002	5.37e-05
Dibenzo(a,h)anthracene	Qr,U	1,2,3,5	<0.0000562	<0.000200	<0.0000562	mg/L	1	0.0000562	0.0002	5.62e-05
Benzo(g,h,i)perylene	Qr,U	1,2,3,5	<0.0000519	<0.000200	<0.0000519	mg/L	1	0.0000519	0.0002	5.19e-05

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			2.21	mg/L	1	8.00	28	10 - 120
2-Fluorobiphenyl		Qsr	2.87	mg/L	1	8.00	36	35.9 - 120
Terphenyl-d14			5.39	mg/L	1	8.00	67	23.2 - 120

Method Blanks

Method Blank (1)

QC Batch: 133198
Prep Batch: 112904

Date Analyzed: 2016-10-08
QC Preparation: 2016-10-07

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		4	<0.000504	mg/L	0.000504
Toluene		4	<0.000621	mg/L	0.000621
Ethylbenzene		4	<0.000763	mg/L	0.000763
Xylene		4	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0887	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0783	mg/L	1	0.100	78	70 - 130

Method Blank (1)

QC Batch: 133247
Prep Batch: 112911

Date Analyzed: 2016-10-11
QC Preparation: 2016-10-10

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		4	<0.000504	mg/L	0.000504
Toluene		4	<0.000621	mg/L	0.000621
Ethylbenzene		4	<0.000763	mg/L	0.000763
Xylene		4	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0912	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0817	mg/L	1	0.100	82	70 - 130

Method Blank (1)

QC Batch: 133346
Prep Batch: 113040

Date Analyzed: 2016-10-17
QC Preparation: 2016-10-07

Analyzed By: MN
Prepared By: MN

Parameter	F	C	Result	Units	Reporting Limits
Naphthalene		1,2,3,5	<0.0000656	mg/L	6.56e-05
2-Methylnaphthalene		1,2,3,5	<0.0000516	mg/L	5.16e-05
1-Methylnaphthalene		1	<0.0000663	mg/L	6.63e-05
Acenaphthylene		1,2,3,5	<0.0000581	mg/L	5.81e-05
Acenaphthene		1,2,3,5	<0.0000332	mg/L	3.32e-05
Dibenzofuran		1,2,3,5	<0.0000607	mg/L	6.07e-05
Fluorene		1,2,3,5	<0.0000788	mg/L	7.88e-05
Anthracene		1,2,3,5	<0.0000321	mg/L	3.21e-05
Phenanthrene		1,2,3,5	<0.0000516	mg/L	5.16e-05
Fluoranthene		1,2,3,5	<0.0000638	mg/L	6.38e-05
Pyrene		1,2,3,5	<0.0000415	mg/L	4.15e-05
Benzo(a)anthracene		1,2,3,5	<0.0000721	mg/L	7.21e-05
Chrysene		1,2,3,5	<0.0000811	mg/L	8.11e-05
Benzo(b)fluoranthene		1,2,3,5	<0.0000710	mg/L	7.1e-05
Benzo(k)fluoranthene		1,2,3,5	<0.0000561	mg/L	5.61e-05
Benzo(a)pyrene		1,2,3,5	<0.0000418	mg/L	4.18e-05
Indeno(1,2,3-cd)pyrene		1,2,3,5	<0.0000537	mg/L	5.37e-05
Dibenzo(a,h)anthracene		1,2,3,5	<0.0000562	mg/L	5.62e-05
Benzo(g,h,i)perylene		1,2,3,5	<0.0000519	mg/L	5.19e-05

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			4.06	mg/L	1	8.00	51	10 - 120
2-Fluorobiphenyl			4.00	mg/L	1	8.00	50	35.9 - 120
Terphenyl-d14			5.60	mg/L	1	8.00	70	23.2 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 133198
Prep Batch: 112904

Date Analyzed: 2016-10-08
QC Preparation: 2016-10-07

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.0922	mg/L	1.06	0.100	<0.000534	92	70 - 130
Toluene		4	0.0900	mg/L	1.06	0.100	<0.000658	90	70 - 130
Ethylbenzene		4	0.0974	mg/L	1.06	0.100	<0.000809	97	70 - 130
Xylene		4	0.297	mg/L	1.06	0.300	<0.000271	99	70 - 130

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		4	0.0901	mg/L	1.06	0.100	<0.000534	90	70 - 130	2	20
Toluene		4	0.0895	mg/L	1.06	0.100	<0.000658	90	70 - 130	1	20
Ethylbenzene		4	0.0966	mg/L	1.06	0.100	<0.000809	97	70 - 130	1	20
Xylene		4	0.294	mg/L	1.06	0.300	<0.000271	98	70 - 130	1	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0931	0.0940	mg/L	1.06	0.100	93	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0845	0.0865	mg/L	1.06	0.100	84	86	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 133247
Prep Batch: 112911

Date Analyzed: 2016-10-11
QC Preparation: 2016-10-10

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.0847	mg/L	1	0.100	<0.000504	85	70 - 130
Toluene		4	0.0855	mg/L	1	0.100	<0.000621	86	70 - 130
Ethylbenzene		4	0.0943	mg/L	1	0.100	<0.000763	94	70 - 130
Xylene		4	0.287	mg/L	1	0.300	<0.000256	96	70 - 130

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

continued ...

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	0.0948	mg/L	1	0.100	<0.000504	95	70 - 130	11	20
Toluene		4	0.0910	mg/L	1	0.100	<0.000621	91	70 - 130	6	20
Ethylbenzene		4	0.0979	mg/L	1	0.100	<0.000763	98	70 - 130	4	20
Xylene		4	0.297	mg/L	1	0.300	<0.000256	99	70 - 130	3	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0947	0.0956	mg/L	1	0.100	95	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0849	0.0866	mg/L	1	0.100	85	87	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 133346
Prep Batch: 113040

Date Analyzed: 2016-10-17
QC Preparation: 2016-10-07

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1,2,3,5	6.34	mg/L	1	8.00	<0.0000656	79	49.7 - 120
2-Methylnaphthalene		1,2,3,5	7.05	mg/L	1	8.00	<0.0000516	88	44.6 - 120
1-Methylnaphthalene	Qs	1	17.5	mg/L	1	8.00	<0.0000663	219	10 - 189
Acenaphthylene		1,2,3,5	7.95	mg/L	1	8.00	<0.0000581	99	40.9 - 120
Acenaphthene		1,2,3,5	6.36	mg/L	1	8.00	<0.0000332	80	49.9 - 120
Dibenzofuran		1,2,3,5	5.68	mg/L	1	8.00	<0.0000607	71	34 - 120
Fluorene		1,2,3,5	5.21	mg/L	1	8.00	<0.0000788	65	49.7 - 120
Anthracene		1,2,3,5	9.29	mg/L	1	8.00	<0.0000321	116	11.4 - 155
Phenanthrene		1,2,3,5	4.86	mg/L	1	8.00	<0.0000516	61	41 - 120
Fluoranthene		1,2,3,5	3.48	mg/L	1	8.00	<0.0000638	44	35.7 - 120
Pyrene	Qs	1,2,3,5	11.4	mg/L	1	8.00	<0.0000415	142	19.5 - 139
Benzo(a)anthracene		1,2,3,5	5.98	mg/L	1	8.00	<0.0000721	75	53.4 - 120
Chrysene		1,2,3,5	6.96	mg/L	1	8.00	<0.0000811	87	10 - 170
Benzo(b)fluoranthene		1,2,3,5	4.98	mg/L	1	8.00	<0.0000710	62	29.2 - 120
Benzo(k)fluoranthene		1,2,3,5	5.71	mg/L	1	8.00	<0.0000561	71	23.4 - 120
Benzo(a)pyrene		1,2,3,5	6.99	mg/L	1	8.00	<0.0000418	87	23.4 - 120
Indeno(1,2,3-cd)pyrene		1,2,3,5	3.60	mg/L	1	8.00	<0.0000537	45	10 - 129
Dibenzo(a,h)anthracene	Qs	1,2,3,5	29.8	mg/L	1	8.00	<0.0000562	372	10 - 174
Benzo(g,h,i)perylene		1,2,3,5	7.29	mg/L	1	8.00	<0.0000519	91	30.6 - 120

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

continued . . .

control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1,2,3,5	6.46	mg/L	1	8.00	<0.0000656	81	49.7 - 120	2	20
2-Methylnaphthalene		1,2,3,5	7.14	mg/L	1	8.00	<0.0000516	89	44.6 - 120	1	20
1-Methylnaphthalene	Qs	1	17.4	mg/L	1	8.00	<0.0000663	218	10 - 189	1	20
Acenaphthylene		1,2,3,5	7.76	mg/L	1	8.00	<0.0000581	97	40.9 - 120	2	20
Acenaphthene		1,2,3,5	7.57	mg/L	1	8.00	<0.0000332	95	49.9 - 120	17	20
Dibenzofuran		1,2,3,5	6.70	mg/L	1	8.00	<0.0000607	84	34 - 120	16	20
Fluorene	Qr	1,2,3,5	6.67	mg/L	1	8.00	<0.0000788	83	49.7 - 120	25	20
Anthracene		1,2,3,5	10.3	mg/L	1	8.00	<0.0000321	129	11.4 - 155	10	20
Phenanthrene		1,2,3,5	5.47	mg/L	1	8.00	<0.0000516	68	41 - 120	12	20
Fluoranthene		1,2,3,5	3.31	mg/L	1	8.00	<0.0000638	41	35.7 - 120	5	20
Pyrene	Qs	1,2,3,5	12.9	mg/L	1	8.00	<0.0000415	161	19.5 - 139	12	20
Benzo(a)anthracene	Qr	1,2,3,5	8.19	mg/L	1	8.00	<0.0000721	102	53.4 - 120	31	20
Chrysene		1,2,3,5	8.10	mg/L	1	8.00	<0.0000811	101	10 - 170	15	20
Benzo(b)fluoranthene	Qr	1,2,3,5	8.09	mg/L	1	8.00	<0.0000710	101	29.2 - 120	48	20
Benzo(k)fluoranthene	Qr	1,2,3,5	8.04	mg/L	1	8.00	<0.0000561	100	23.4 - 120	34	20
Benzo(a)pyrene	Qr	1,2,3,5	9.38	mg/L	1	8.00	<0.0000418	117	23.4 - 120	29	20
Indeno(1,2,3-cd)pyrene		1,2,3,5	3.34	mg/L	1	8.00	<0.0000537	42	10 - 129	8	20
Dibenzo(a,h)anthracene	Qr,Qs	1,2,3,5	38.2	mg/L	1	8.00	<0.0000562	478	10 - 174	25	20
Benzo(g,h,i)perylene	Qr,Qs	1,2,3,5	9.63	mg/L	1	8.00	<0.0000519	120	30.6 - 120	28	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5			4.63	4.72	mg/L	1	8.00	58	59	10 - 120
2-Fluorobiphenyl			5.20	6.52	mg/L	1	8.00	65	82	35.9 - 120
Terphenyl-d14			7.97	8.34	mg/L	1	8.00	100	104	23.2 - 120

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 429166

QC Batch: 133198
Prep Batch: 112904

Date Analyzed: 2016-10-08
QC Preparation: 2016-10-07

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.0705	mg/L	1.06	0.100	<0.000534	70	70 - 130
Toluene		4	0.0685	mg/L	1.06	0.100	<0.000658	68	70 - 130
Ethylbenzene		4	0.0709	mg/L	1.06	0.100	<0.000809	71	70 - 130
Xylene		4	0.213	mg/L	1.06	0.300	<0.000271	71	70 - 130

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		4	0.0843	mg/L	1.06	0.100	<0.000534	84	70 - 130	18	20
Toluene		4	0.0833	mg/L	1.06	0.100	<0.000658	83	70 - 130	20	20
Ethylbenzene		4	0.0893	mg/L	1.06	0.100	<0.000809	89	70 - 130	23	20
Xylene		4	0.270	mg/L	1.06	0.300	<0.000271	90	70 - 130	24	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0918	0.0922	mg/L	1.06	0.1	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0835	0.0845	mg/L	1.06	0.1	84	84	70 - 130

Matrix Spike (MS-1) Spiked Sample: 429570

QC Batch: 133247
Prep Batch: 112911

Date Analyzed: 2016-10-11
QC Preparation: 2016-10-10

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.0959	mg/L	1	0.100	<0.000504	96	70 - 130
Toluene		4	0.0925	mg/L	1	0.100	<0.000621	92	70 - 130
Ethylbenzene		4	0.0950	mg/L	1	0.100	<0.000763	95	70 - 130
Xylene		4	0.283	mg/L	1	0.300	<0.000256	94	70 - 130

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

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	0.0891	mg/L	1	0.100	<0.000504	89	70 - 130	7	20
Toluene		4	0.0855	mg/L	1	0.100	<0.000621	86	70 - 130	8	20
Ethylbenzene		4	0.0906	mg/L	1	0.100	<0.000763	91	70 - 130	5	20
Xylene		4	0.275	mg/L	1	0.300	<0.000256	92	70 - 130	3	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0951	0.0944	mg/L	1	0.1	95	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0878	0.0845	mg/L	1	0.1	88	84	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 133198

Date Analyzed: 2016-10-08

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.0885	88	80 - 120	2016-10-08
Toluene		4	mg/L	0.100	0.0867	87	80 - 120	2016-10-08
Ethylbenzene		4	mg/L	0.100	0.0913	91	80 - 120	2016-10-08
Xylene		4	mg/L	0.300	0.274	91	80 - 120	2016-10-08

Standard (CCV-3)

QC Batch: 133198

Date Analyzed: 2016-10-08

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.0856	86	80 - 120	2016-10-08
Toluene		4	mg/L	0.100	0.0856	86	80 - 120	2016-10-08
Ethylbenzene		4	mg/L	0.100	0.0894	89	80 - 120	2016-10-08
Xylene		4	mg/L	0.300	0.268	89	80 - 120	2016-10-08

Standard (CCV-1)

QC Batch: 133247

Date Analyzed: 2016-10-11

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.0856	86	80 - 120	2016-10-11
Toluene		4	mg/L	0.100	0.0834	83	80 - 120	2016-10-11
Ethylbenzene		4	mg/L	0.100	0.0887	89	80 - 120	2016-10-11
Xylene		4	mg/L	0.300	0.269	90	80 - 120	2016-10-11

Standard (CCV-2)

QC Batch: 133247

Date Analyzed: 2016-10-11

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.0868	87	80 - 120	2016-10-11
Toluene		4	mg/L	0.100	0.0835	84	80 - 120	2016-10-11
Ethylbenzene		4	mg/L	0.100	0.0851	85	80 - 120	2016-10-11
Xylene		4	mg/L	0.300	0.254	85	80 - 120	2016-10-11

Standard (CCV-2)

QC Batch: 133346

Date Analyzed: 2016-10-17

Analyzed By: MN

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1,2,3,5	mg/L	60.0	62.8	105	80 - 120	2016-10-17
2-Methylnaphthalene		1,2,3,5	mg/L	60.0	66.4	111	80 - 120	2016-10-17
1-Methylnaphthalene		1	mg/L	60.0	59.8	100	80 - 120	2016-10-17
Acenaphthylene		1,2,3,5	mg/L	60.0	68.9	115	80 - 120	2016-10-17
Acenaphthene		1,2,3,5	mg/L	60.0	68.7	114	80 - 120	2016-10-17
Dibenzofuran		1,2,3,5	mg/L	60.0	66.0	110	80 - 120	2016-10-17
Fluorene		1,2,3,5	mg/L	60.0	67.6	113	80 - 120	2016-10-17
Anthracene		1,2,3,5	mg/L	60.0	64.8	108	80 - 120	2016-10-17
Phenanthrene		1,2,3,5	mg/L	60.0	64.0	107	80 - 120	2016-10-17
Fluoranthene		1,2,3,5	mg/L	60.0	54.1	90	80 - 120	2016-10-17
Pyrene		1,2,3,5	mg/L	60.0	71.8	120	80 - 120	2016-10-17
Benzo(a)anthracene		1,2,3,5	mg/L	60.0	60.8	101	80 - 120	2016-10-17
Chrysene		1,2,3,5	mg/L	60.0	59.2	99	80 - 120	2016-10-17
Benzo(b)fluoranthene		1,2,3,5	mg/L	60.0	61.6	103	80 - 120	2016-10-17
Benzo(k)fluoranthene		1,2,3,5	mg/L	60.0	48.7	81	80 - 120	2016-10-17
Benzo(a)pyrene		1,2,3,5	mg/L	60.0	54.1	90	80 - 120	2016-10-17
Indeno(1,2,3-cd)pyrene		1,2,3,5	mg/L	60.0	55.4	92	80 - 120	2016-10-17
Dibenzo(a,h)anthracene		1,2,3,5	mg/L	60.0	51.6	86	80 - 120	2016-10-17
Benzo(g,h,i)perylene		1,2,3,5	mg/L	60.0	55.5	92	80 - 120	2016-10-17

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			67.2	mg/L	1	60.0	112	-
2-Fluorobiphenyl			64.1	mg/L	1	60.0	107	-
Terphenyl-d14			60.1	mg/L	1	60.0	100	-

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	Pass
					Amount	
BTEX	S 8021B	water	BTEX-2	Benzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Toluene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Ethylbenzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Xylene	0.000768	Pass
PAH	S 8270D	water	6890 Semi	Naphthalene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	2-Methylnaphthalene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	1-Methylnaphthalene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Acenaphthylene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Acenaphthene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Dibenzofuran	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Fluorene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Anthracene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Phenanthrene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Fluoranthene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Pyrene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Benzo(a)anthracene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Chrysene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Benzo(b)fluoranthene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Benzo(k)fluoranthene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Benzo(a)pyrene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Indeno(1,2,3-cd)pyrene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Dibenzo(a,h)anthracene	0.00150	Pass
PAH	S 8270D	water	6890 Semi	Benzo(g,h,i)perylene	0.00150	Pass

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	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	NELAP	T104704219-16-12	Lubbock
4	NELAP	T104704392-14-8	Midland
5		2015-066	Lubbock

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.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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

Report Date: October 17, 2016
TNM-LF-59

Work Order: 16100401
LF-59

Page Number: 20 of 20

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

BioAquatic Testing
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Carrollton, Texas 75006
Tel (972) 242-7750

432) 520-7720

1000

me:

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Signature: _____

Harve

[illegible][illegible]

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9	Lubbock, Texas 79424	800-378-1296	806-794-1296	FAX 806-794-1298
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(BioAquatic) 2501 Mayes Rd., Suite 100	Carrollton, Texas 75006		972-242-7750	
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
TRC Solutions
2057 Commerce
Midland, Tx, 79703

Report Date: November 14, 2016

Work Order: 16110401



Project Name: LF-59
Project Number: TNM-LF-59

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
431317	MW 1A	water	2016-11-02	18:00	2016-11-04

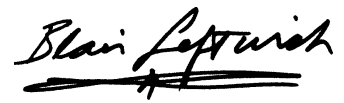
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2016-11-04 and assigned to work order 16110401. Samples for work order 16110401 were received intact at a temperature of 4.5 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	113337	2016-11-04 at 07:40	133706	2016-11-07 at 12:33

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 16110401 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: 431317 - MW 1A

Laboratory: Midland

Analysis: BTEX

QC Batch: 133706

Prep Batch: 113337

Analytical Method: S 8021B

Date Analyzed: 2016-11-07

Sample Preparation: 2016-11-04

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene		4	0.0141	0.0141	<0.000504	mg/L	1	0.000504	0.001	0.000504
Toluene	u	4	<0.000621	<0.00100	<0.000621	mg/L	1	0.000621	0.001	0.000621
Ethylbenzene		4	0.00560	0.00560	<0.000763	mg/L	1	0.000763	0.001	0.000763
Xylene		4	0.00120	0.00120	<0.000256	mg/L	1	0.000256	0.001	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0912	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0886	mg/L	1	0.100	89	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 133706
Prep Batch: 113337

Date Analyzed: 2016-11-07
QC Preparation: 2016-11-04

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		4	<0.000504	mg/L	0.000504
Toluene		4	<0.000621	mg/L	0.000621
Ethylbenzene		4	<0.000763	mg/L	0.000763
Xylene		4	<0.000256	mg/L	0.000256

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0979	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0930	mg/L	1	0.100	93	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 133706
Prep Batch: 113337

Date Analyzed: 2016-11-07
QC Preparation: 2016-11-04

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.104	mg/L	1.06	0.100	<0.000534	104	70 - 130
Toluene		4	0.0980	mg/L	1.06	0.100	<0.000658	98	70 - 130
Ethylbenzene		4	0.100	mg/L	1.06	0.100	<0.000809	100	70 - 130
Xylene		4	0.306	mg/L	1.06	0.300	<0.000271	102	70 - 130

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	0.103	mg/L	1.06	0.100	<0.000534	103	70 - 130	1	20
Toluene		4	0.0982	mg/L	1.06	0.100	<0.000658	98	70 - 130	0	20
Ethylbenzene		4	0.102	mg/L	1.06	0.100	<0.000809	102	70 - 130	2	20
Xylene		4	0.306	mg/L	1.06	0.300	<0.000271	102	70 - 130	0	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.102	0.102	mg/L	1.06	0.100	102	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	0.102	mg/L	1.06	0.100	100	102	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 431215

QC Batch: 133706
Prep Batch: 113337

Date Analyzed: 2016-11-07
QC Preparation: 2016-11-04

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	0.103	mg/L	1.06	0.100	<0.000534	103	70 - 130
Toluene		4	0.0958	mg/L	1.06	0.100	<0.000658	96	70 - 130
Ethylbenzene		4	0.0937	mg/L	1.06	0.100	<0.000809	94	70 - 130
Xylene		4	0.283	mg/L	1.06	0.300	<0.000271	94	70 - 130

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		4	0.0977	mg/L	1.06	0.100	<0.000534	98	70 - 130	6	20
Toluene		4	0.0917	mg/L	1.06	0.100	<0.000658	92	70 - 130	4	20
Ethylbenzene		4	0.0949	mg/L	1.06	0.100	<0.000809	95	70 - 130	1	20
Xylene		4	0.288	mg/L	1.06	0.300	<0.000271	96	70 - 130	2	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.0981	0.0984	mg/L	1.06	0.1	98	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0971	0.0970	mg/L	1.06	0.1	97	97	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 133706

Date Analyzed: 2016-11-07

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.103	103	80 - 120	2016-11-07
Toluene		4	mg/L	0.100	0.0971	97	80 - 120	2016-11-07
Ethylbenzene		4	mg/L	0.100	0.0949	95	80 - 120	2016-11-07
Xylene		4	mg/L	0.300	0.282	94	80 - 120	2016-11-07

Standard (CCV-3)

QC Batch: 133706

Date Analyzed: 2016-11-07

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.104	104	80 - 120	2016-11-07
Toluene		4	mg/L	0.100	0.0971	97	80 - 120	2016-11-07
Ethylbenzene		4	mg/L	0.100	0.0959	96	80 - 120	2016-11-07
Xylene		4	mg/L	0.300	0.287	96	80 - 120	2016-11-07

Standard (CCV-4)

QC Batch: 133706

Date Analyzed: 2016-11-07

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/L	0.100	0.101	101	80 - 120	2016-11-07
Toluene		4	mg/L	0.100	0.0973	97	80 - 120	2016-11-07
Ethylbenzene		4	mg/L	0.100	0.0927	93	80 - 120	2016-11-07
Xylene		4	mg/L	0.300	0.277	92	80 - 120	2016-11-07

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	water	BTEX-2	Benzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Toluene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Ethylbenzene	0.000768	Pass
BTEX	S 8021B	water	BTEX-2	Xylene	0.000768	Pass

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	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	NELAP	T104704219-16-13	Lubbock
4	NELAP	T104704392-14-8	Midland
5		2015-066	Lubbock

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.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Historic Tables

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/22/00	3,572.21	-	19.94	0.00	3,552.27
MW - 1	02/23/00	3,572.21	-	19.95	0.00	3,552.26
MW - 1	04/06/00	3,572.21	-	19.81	0.00	3,552.40
MW - 1	08/29/00	3,572.21	19.46	19.76	0.30	3,552.71
MW - 1	12/04/00	3,572.21	19.55	19.61	0.06	3,552.65
MW - 1	01/23/01	3,572.21	19.57	20.17	0.60	3,552.55
MW - 1	05/16/01	3,572.21	19.63	20.61	0.98	3,552.43
MW - 1	08/06/01	3,572.21	19.76	21.09	1.33	3,552.25
MW - 1	09/27/01	3,572.21	19.91	20.88	0.97	3,552.15
MW - 1	10/29/01	3,572.21	19.91	20.88	0.97	3,552.15
MW - 1	03/29/02	3,572.21	19.34	19.37	0.03	3,552.87
MW - 1	05/20/02	3,572.21	19.81	19.93	0.12	3,552.38
MW - 1	09/10/02	3,572.21	19.80	20.16	0.36	3,552.36
MW - 1	10/02/02	3,572.21	19.91	20.45	0.54	3,552.22
MW - 1	10/03/02	3,572.21	19.89	20.83	0.94	3,552.18
MW - 1	10/08/02	3,572.21	19.92	20.44	0.52	3,552.21
MW - 1	10/14/02	3,572.21	19.94	20.52	0.58	3,552.18
MW - 1	10/22/02	3,572.21	19.99	20.50	0.51	3,552.14
MW - 1	11/14/02	3,572.21	19.66	19.83	0.17	3,552.52
MW - 1	12/03/03	3,572.21	20.25	21.20	0.95	3,551.82
MW - 1	01/14/04	3,572.21	20.82	21.70	0.88	3,551.26
MW - 1	01/19/04	3,572.21	20.81	21.72	0.91	3,551.26
MW - 1	01/27/04	3,572.21	20.79	21.65	0.86	3,551.29
MW - 1	02/03/04	3,572.21	20.75	21.62	0.87	3,551.33
MW - 1	02/10/04	3,572.21	21.00	21.21	0.21	3,551.18
MW - 1	02/19/04	3,572.21	20.58	21.13	0.55	3,551.55
MW - 1	02/23/04	3,572.21	20.97	21.16	0.19	3,551.21
MW - 1	03/02/04	3,572.21	20.94	21.18	0.24	3,551.23
MW - 1	03/03/04	3,572.21	20.23	20.64	0.41	3,551.92
MW - 1	03/11/04	3,572.21	20.46	20.77	0.31	3,551.70
MW - 1	03/15/04	3,572.21	20.42	20.69	0.27	3,551.75
MW - 1	03/17/04	3,572.21	20.73	20.94	0.21	3,551.45
MW - 1	03/22/04	3,572.21	20.76	20.98	0.22	3,551.42
MW - 1	03/24/04	3,572.21	20.23	20.36	0.13	3,551.96
MW - 1	03/29/04	3,572.21	20.90	20.98	0.08	3,551.30
MW - 1	04/07/04	3,572.21	17.26	17.26	0.00	3,554.95
MW - 1	04/13/04	3,572.21	17.17	17.17	0.00	3,555.04
MW - 1	04/20/04	3,572.21	18.25	18.25	0.00	3,553.96
MW - 1	04/27/04	3,572.21	18.88	18.89	0.01	3,553.33
MW - 1	05/11/04	3,572.21	19.64	19.64	0.00	3,552.57
MW - 1	05/18/04	3,572.21	19.22	19.22	0.00	3,552.99
MW - 1	06/17/04	3,572.21	19.42	19.42	0.00	3,552.79
MW - 1	06/23/04	3,572.21	19.45	19.45	0.00	3,552.76
MW - 1	06/30/04	3,572.21	-	19.43	0.00	3,552.78
MW - 1	07/07/04	3,572.21	-	19.44	0.00	3,552.77

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	07/21/04	3,572.21	-	19.13	0.00	3,553.08
MW - 1	08/04/04	3,572.21	-	19.12	0.00	3,553.09
MW - 1	08/11/04	3,572.21	19.40	19.41	0.01	3,552.81
MW - 1	09/07/04	3,572.21	sheen	19.50	0.00	3,552.71
MW - 1	09/13/04	3,572.21	sheen	19.52	0.00	3,552.69
MW - 1	09/21/04	3,572.21	sheen	20.63	0.00	3,551.58
MW - 1	09/21/04	3,572.21	sheen	20.63	0.00	3,551.58
MW - 1	10/12/04	3,572.21	sheen	14.45	0.00	3,557.76
MW - 1	10/21/04	3,572.21	sheen	15.85	0.00	3,556.36
MW - 1	10/28/04	3,572.21	sheen	15.82	0.00	3,556.39
MW - 1	11/03/04	3,572.21	sheen	17.08	0.00	3,555.13
MW - 1	11/10/04	3,572.21	sheen	16.97	0.00	3,555.24
MW - 1	11/17/04	3,572.21	sheen	16.40	0.00	3,555.81
MW - 1	12/01/04	3,572.21	sheen	13.80	0.00	3,558.41
MW - 1	12/08/04	3,572.21	sheen	14.31	0.00	3,557.90
MW - 1	12/14/04	3,572.21	-	14.85	0.00	3,557.36
MW - 1	12/16/04	3,572.21	sheen	14.85	0.00	3,557.36
MW - 1	12/28/04	3,572.21	sheen	14.49	0.00	3,557.72
MW - 1	01/05/05	3,572.21	sheen	16.36	0.00	3,555.85
MW - 1	01/13/05	3,572.21	sheen	16.72	0.00	3,555.49
MW - 1	01/19/05	3,572.21	sheen	17.22	0.00	3,554.99
MW - 1	01/27/05	3,572.21	sheen	17.66	0.00	3,554.55
MW - 1	02/03/05	3,572.21	sheen	17.97	0.00	3,554.24
MW - 1	02/10/05	3,572.21	sheen	18.34	0.00	3,553.87
MW - 1	02/17/05	3,572.21	sheen	18.61	0.00	3,553.60
MW - 1	02/24/05	3,572.21	sheen	18.80	0.00	3,553.41
MW - 1	03/03/05	3,572.21	sheen	18.55	0.00	3,553.66
MW - 1	03/08/05	3,572.21	sheen	19.00	0.00	3,553.21
MW - 1	03/10/05	3,572.21	sheen	19.00	0.00	3,553.21
MW - 1	03/17/05	3,572.21	sheen	18.98	0.00	3,553.23
MW - 1	03/24/05	3,572.21	sheen	19.23	0.00	3,552.98
MW - 1	03/31/05	3,572.21	sheen	19.36	0.00	3,552.85
MW - 1	04/07/05	3,572.21	sheen	19.29	0.00	3,552.92
MW - 1	04/14/05	3,572.21	sheen	19.23	0.00	3,552.98
MW - 1	05/24/05	3,572.21	sheen	20.09	0.00	3,552.12
MW - 1	06/07/05	3,572.21	sheen	19.43	0.00	3,552.78
MW - 1	06/23/05	3,572.21	sheen	19.51	0.00	3,552.70
MW - 1	07/28/05	3,572.21	sheen	19.58	0.00	3,552.63
MW - 1	08/24/05	3,572.21	sheen	18.19	0.00	3,554.02
MW - 1	09/07/05	3,572.21	-	18.96	0.00	3,553.25
MW - 1	09/30/05	3,572.21	-	19.29	0.00	3,552.92
MW - 1	10/28/05	3,572.21	sheen	19.42	0.00	3,552.79
MW - 1	11/16/05	3,572.21	sheen	19.50	0.00	3,552.71
MW - 1	12/02/05	3,572.21	-	19.54	0.00	3,552.67
MW - 1	12/30/05	3,572.21	sheen	19.59	0.00	3,552.62

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/18/06	3,572.21	sheen	19.60	0.00	3,552.61
MW - 1	02/17/06	3,572.21	sheen	19.60	0.00	3,552.61
MW - 1	03/08/06	3,572.21	sheen	19.59	0.00	3,552.62
MW - 1	03/20/06	3,572.21	sheen	19.64	0.00	3,552.57
MW - 1	04/19/06	3,572.21	sheen	19.62	0.00	3,552.59
MW - 1	05/25/06	3,572.21	20.61	20.72	0.11	3,551.58
MW - 1	06/07/06	3,572.21	sheen	19.62	0.00	3,552.59
MW - 1	07/13/06	3,572.21	sheen	19.28	0.00	3,552.93
MW - 1	07/27/06	3,572.21	sheen	19.61	0.00	3,552.60
MW - 1	08/10/06	3,572.21	-	19.49	0.00	3,552.72
MW - 1	09/12/06	3,572.21	-	14.64	0.00	3,557.57
MW - 1	09/16/06	3,572.21	sheen	14.71	0.00	3,557.50
MW - 1	10/04/06	3,572.21	-	19.66	0.00	3,552.55
MW - 1	11/15/06	3,572.21	-	19.26	0.00	3,552.95
MW - 1	11/22/06	3,572.21	-	18.75	0.00	3,553.46
MW - 1	01/11/07	3,572.21	-	19.40	0.00	3,552.81
MW - 1	02/05/07	3,572.21	-	19.43	0.00	3,552.78
MW - 1	02/21/07	3,572.21	-	19.54	0.00	3,552.67
MW - 1	03/27/07	3,572.21	-	19.44	0.00	3,552.77
MW - 1	05/16/07	3,572.21	-	19.34	0.00	3,552.87
MW - 1	08/10/07	3,572.21	-	19.51	0.00	3,552.70
MW - 1	12/28/07	3,572.21	-	19.60	0.00	3,552.61
MW - 1	02/18/08	3,572.21	-	19.60	0.00	3,552.61
MW - 1	02/29/08	3,572.21	-	19.64	0.00	3,552.57
MW - 1	05/12/08	3,572.21	-	19.67	0.00	3,552.54
MW - 1	08/08/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	08/12/08	3,572.21	-	19.76	0.00	3,552.45
MW - 1	10/08/08	3,572.21	-	19.98	0.00	3,552.23
MW - 1	10/24/08	3,572.21	-	19.71	0.00	3,552.50
MW - 1	10/28/08	3,572.21	-	19.70	0.00	3,552.51
MW - 1	11/03/08	3,572.21	-	19.81	0.00	3,552.40
MW - 1	11/07/08	3,572.21	-	19.74	0.00	3,552.47
MW - 1	11/10/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	11/17/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	11/24/08	3,572.21	-	19.94	0.00	3,552.27
MW - 1	12/01/08	3,572.21	-	21.62	0.00	3,550.59
MW - 1	12/08/08	3,572.21	-	19.85	0.00	3,552.36
MW - 1	12/15/08	3,572.21	-	21.49	0.00	3,550.72
MW - 1	12/19/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	12/22/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	01/07/09	3,572.21	-	19.83	0.00	3,552.38
MW - 1	01/12/09	3,572.21	-	18.81	0.00	3,553.40
MW - 1	01/15/09	3,572.21	-	19.86	0.00	3,552.35
MW - 1	01/19/09	3,572.21	-	19.83	0.00	3,552.38
MW - 1	01/21/09	3,572.21	-	19.87	0.00	3,552.34

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/29/09	3,572.21	-	19.86	0.00	3,552.35
MW - 1	02/06/09	3,572.21	-	19.85	0.00	3,552.36
MW - 1	02/17/09	3,572.21	-	19.87	0.00	3,552.34
MW - 1	02/23/09	3,572.21	-	19.94	0.00	3,552.27
MW - 1	03/02/09	3,572.21	-	19.92	0.00	3,552.29
MW - 1	03/05/09	3,572.21	-	21.01	0.00	3,551.20
MW - 1	03/09/09	3,572.21	-	20.03	0.00	3,552.18
MW - 1	03/17/09	3,572.21	-	21.01	0.00	3,551.20
MW - 1	03/18/09	3,572.21	-	21.02	0.00	3,551.19
MW - 1	03/26/09	3,572.21	-	19.95	0.00	3,552.26
MW - 1	03/30/09	3,572.21	-	20.02	0.00	3,552.19
MW - 1	04/06/09	3,572.21	-	19.97	0.00	3,552.24
MW - 1	04/13/09	3,572.21	-	21.03	0.00	3,551.18
MW - 1	04/16/09	3,572.21	-	19.96	0.00	3,552.25
MW - 1	04/20/09	3,572.21	-	19.93	0.00	3,552.28
MW - 1	04/23/09	3,572.21	-	21.04	0.00	3,551.17
MW - 1	04/27/09	3,572.21	-	21.03	0.00	3,551.18
MW - 1	04/30/09	3,572.21	-	19.92	0.00	3,552.29
MW - 1	05/07/09	3,572.21	-	19.90	0.00	3,552.31
MW - 1	05/21/09	3,572.21	-	19.72	0.00	3,552.49
MW - 1	05/26/09	3,572.21	-	19.76	0.00	3,552.45
MW - 1	06/02/09	3,572.21	-	19.74	0.00	3,552.47
MW - 1	06/08/09	3,572.21	-	19.78	0.00	3,552.43
MW - 1	06/17/09	3,572.21	-	21.02	0.00	3,551.19
MW - 1	06/29/09	3,572.21	-	21.01	0.00	3,551.20
MW - 1	07/07/09	3,572.21	-	19.74	0.00	3,552.47
MW - 1	07/14/09	3,572.21	-	19.67	0.00	3,552.54
MW - 1	07/21/09	3,572.21	-	19.56	0.00	3,552.65
MW - 1	07/27/09	3,572.21	-	19.68	0.00	3,552.53
MW - 1	07/30/09	3,572.21	-	19.65	0.00	3,552.56
MW - 1	08/04/09	3,572.21	-	19.69	0.00	3,552.52
MW - 1	08/06/09	3,572.21	-	19.66	0.00	3,552.55
MW - 1	08/19/09	3,572.21	-	19.70	0.00	3,552.51
MW - 1	08/27/09	3,572.21	-	19.71	0.00	3,552.50
MW - 1	08/31/09	3,572.21	-	19.72	0.00	3,552.49
MW - 1	09/10/09	3,572.21	-	19.66	0.00	3,552.55
MW - 1	09/17/09	3,572.21	-	19.65	0.00	3,552.56
MW - 1	09/25/09	3,572.21	-	19.63	0.00	3,552.58
MW - 1	09/29/09	3,572.21	-	19.78	0.00	3,552.43
MW - 1	10/06/09	3,572.21	-	19.71	0.00	3,552.50
MW - 1	10/19/09	3,572.21	-	19.79	0.00	3,552.42
MW - 1	10/26/09	3,572.21	-	19.86	0.00	3,552.35
MW - 1	11/06/09	3,572.21	-	19.68	0.00	3,552.53
MW - 1	11/09/09	3,572.21	-	19.79	0.00	3,552.42
MW - 1	12/08/09	3,572.21	-	19.71	0.00	3,552.50

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/05/10	3,572.21	-	19.79	0.00	3,552.42
MW - 1	01/21/10	3,572.21	-	19.70	0.00	3,552.51
MW - 1	02/04/10	3,572.21	-	19.70	0.00	3,552.51
MW - 1	03/03/10	3,572.21	-	19.78	0.00	3,552.43
MW - 1	04/16/10	3,572.21	-	19.76	0.00	3,552.45
MW - 1	08/09/10	3,572.21	-	19.79	0.00	3,552.42
MW - 1	11/01/10	3,572.21	-	19.52	0.00	3,552.69
MW - 1	02/10/11	3,572.21	-	19.52	0.00	3,552.69
MW - 1	05/04/11	3,572.21	-	19.65	0.00	3,552.56
MW - 1	05/26/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	06/09/11	3,572.21	-	19.69	0.00	3,552.52
MW - 1	06/13/11	3,572.21	-	19.65	0.00	3,552.56
MW - 1	06/29/11	3,572.21	-	19.70	0.00	3,552.51
MW - 1	07/07/11	3,572.21	-	19.71	0.00	3,552.50
MW - 1	07/08/11	3,572.21	-	19.54	0.00	3,552.67
MW - 1	08/01/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	08/03/11	3,572.21	-	19.53	0.00	3,552.68
MW - 1	09/12/11	3,572.21	-	19.80	0.00	3,552.41
MW - 1	10/31/11	3,572.21	-	20.00	0.00	3,552.21
MW - 1	11/11/11	3,572.21	-	19.77	0.00	3,552.44
MW - 1	12/07/11	3,572.21	-	19.74	0.00	3,552.47
MW - 1	12/21/11	3,572.21	-	19.75	0.00	3,552.46
MW - 1	01/03/12	3,572.21	-	19.75	0.00	3,552.46
MW - 1	01/11/12	3,572.21	-	19.71	0.00	3,552.50
MW - 1	02/13/12	3,572.21	-	19.78	0.00	3,552.43
MW - 1	03/19/12	3,572.21	-	19.73	0.00	3,552.48
MW - 1	05/25/12	3,572.21	-	19.72	0.00	3,552.49
MW - 1	06/21/12	3,572.21	-	19.71	0.00	3,552.50
MW - 1	08/06/12	3,572.21	-	19.81	0.00	3,552.40
MW - 1	10/24/12	3,572.21	-	19.76	0.00	3,552.45
MW - 1	11/08/12	3,572.21	-	19.73	0.00	3,552.48
MW - 1	12/14/12	3,572.21	-	19.76	0.00	3,552.45
MW - 1	01/24/13	3,572.21	-	19.80	0.00	3,552.41
MW - 1	02/04/13	3,572.21	-	19.76	0.00	3,552.45
MW - 1	02/05/13	3,572.21	-	19.74	0.00	3,552.47
MW - 1	03/26/13	3,572.21	-	19.78	0.00	3,552.43
MW - 1	04/30/12	3,572.21	-	19.83	0.00	3,552.38
MW - 1	05/01/13	3,572.21	-	19.83	0.00	3,552.38
MW - 1	05/28/13	3,572.21	-	19.78	0.00	3,552.43
MW - 1	05/30/13	3,572.21	-	19.80	0.00	3,552.41
MW - 1	06/12/13	3,572.21	-	19.84	0.00	3,552.37
MW - 1	07/02/13	3,572.21	-	19.99	0.00	3,552.22
MW - 1	08/06/13	3,572.21	-	17.82	0.00	3,554.39
MW - 1	08/13/13	3,572.21	-	19.68	0.00	3,552.53
MW - 1	09/25/13	3,572.21	-	19.66	0.00	3,552.55

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/25/13	3,572.21	-	19.76	0.00	3,552.45
MW - 1	11/20/13	3,572.21	-	19.65	0.00	3,552.56
MW - 1	12/23/13	3,572.21	-	19.70	0.00	3,552.51
MW - 1	01/23/14	3,572.21	-	19.73	0.00	3,552.48
MW - 1	02/04/14	3,572.21	Plugged and Abandoned			
MW - 1A	02/26/14	3,573.66	-	21.06	0.00	3,552.60
MW - 1A	03/27/14	3,573.66	-	21.10	0.00	3,552.56
MW - 1A	05/07/14	3,573.66	-	21.27	0.00	3,552.39
MW - 1A	05/30/14	3,573.66	-	21.30	0.00	3,552.36
MW - 1A	06/23/14	3,573.66	-	21.43	0.00	3,552.23
MW - 1A	07/28/14	3,573.66	-	21.60	0.00	3,552.06
MW - 1A	07/29/14	3,573.66	-	21.60	0.00	3,552.06
MW - 1A	08/26/14	3,573.66	-	21.58	0.00	3,552.08
MW - 1A	10/29/14	3,573.66	-	19.03	0.00	3,554.63
MW - 1A	11/11/14	3,573.66	-	19.67	0.00	3,553.99
MW - 1A	12/01/14	3,573.66	-	20.47	0.00	3,553.19
MW - 1A	01/26/15	3,573.66	-	20.95	0.00	3,552.71
MW - 1A	02/19/15	3,573.66	-	20.95	0.00	3,552.71
MW - 1A	03/11/15	3,573.66	-	21.00	0.00	3,552.66
MW - 1A	03/31/15	3,573.66	-	21.00	0.00	3,552.66
MW - 1A	04/08/15	3,573.66	-	21.06	0.00	3,552.60
MW - 1A	04/27/15	3,573.66	-	21.11	0.00	3,552.55
MW - 1A	05/18/15	3,573.66	-	20.98	0.00	3,552.68
MW - 1A	05/29/15	3,573.66	-	20.98	0.00	3,552.68
MW - 1A	06/02/15	3,573.66	-	20.95	0.00	3,552.71
MW - 1A	06/15/15	3,573.66	-	21.02	0.00	3,552.64
MW - 1A	06/30/15	3,573.66	-	21.04	0.00	3,552.62
MW - 1A	07/03/15	3,573.66	-	21.08	0.00	3,552.58
MW - 1A	07/30/15	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	08/11/15	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	08/25/15	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	09/04/15	3,573.66	-	21.19	0.00	3,552.47
MW - 1A	09/22/15	3,573.66	-	21.16	0.00	3,552.50
MW - 1A	10/09/15	3,573.66	-	21.17	0.00	3,552.49
MW - 1A	10/23/15	3,573.66	-	21.16	0.00	3,552.50
MW - 1A	11/04/15	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	12/01/15	3,573.66	-	21.16	0.00	3,552.50
MW - 1A	12/09/15	3,573.66	-	21.17	0.00	3,552.49
MW - 1A	01/04/16	3,573.66	-	21.18	0.00	3,552.48
MW - 1A	01/07/16	3,573.66	-	21.16	0.00	3,552.50
MW - 1A	01/21/16	3,573.66	-	21.19	0.00	3,552.47
MW - 1A	02/02/16	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	02/22/16	3,573.66	-	21.03	0.00	3,552.63
MW - 1A	03/07/16	3,573.66	-	21.05	0.00	3,552.61

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1A	03/28/16	3,573.66	-	21.05	0.00	3,552.61
MW - 1A	04/05/16	3,573.66	-	21.05	0.00	3,552.61
MW - 1A	04/22/16	3,573.66	-	21.07	0.00	3,552.59
MW - 1A	05/03/16	3,573.66	-	21.08	0.00	3,552.58
MW - 1A	06/06/16	3,573.66	-	21.13	0.00	3,552.53
MW - 1A	06/27/16	3,573.66	-	21.14	0.00	3,552.52
MW - 1A	07/26/16	3,573.66	-	21.17	0.00	3,552.49
MW - 1A	08/02/16	3,573.66	-	21.19	0.00	3,552.47
MW - 1A	08/29/16	3,573.66	-	21.03	0.00	3,552.63
MW - 1A	09/20/16	3,573.66	-	20.43	0.00	3,553.23
MW - 1A	10/03/16	3,573.66	-	20.39	0.00	3,553.27
MW - 1A	10/25/16	3,573.66	-	20.71	0.00	3,552.95
MW - 1A	11/02/16	3,573.66	-	20.92	0.00	3,552.74
MW - 1A	12/02/16	3,573.66	-	21.09	0.00	3,552.57
MW - 1A	12/26/16	3,573.66	-	21.13	0.00	3,552.53
MW - 2	02/22/00	3,571.46	-	22.95	0.00	3,548.51
MW - 2	02/23/00	3,571.46	-	22.95	0.00	3,548.51
MW - 2	04/06/00	3,571.46	-	22.87	0.00	3,548.59
MW - 2	08/29/00	3,571.46	-	22.06	0.00	3,549.40
MW - 2	12/04/00	3,571.46	-	22.48	0.00	3,548.98
MW - 2	01/23/01	3,571.46	-	22.54	0.00	3,548.92
MW - 2	05/16/01	3,571.46	-	22.53	0.00	3,548.93
MW - 2	08/06/01	3,571.46	-	22.74	0.00	3,548.72
MW - 2	09/27/01	3,571.46	-	22.85	0.00	3,548.61
MW - 2	10/29/01	3,571.46	-	22.85	0.00	3,548.61
MW - 2	03/29/02	3,571.46	-	21.86	0.00	3,549.60
MW - 2	05/20/02	3,571.46	-	22.51	0.00	3,548.95
MW - 2	09/10/02	3,571.46	-	22.59	0.00	3,548.87
MW - 2	11/14/02	3,571.46	-	22.12	0.00	3,549.34
MW - 2	12/03/03	3,571.46	-	22.99	0.00	3,548.47
MW - 2	03/03/04	3,571.46	-	23.01	0.00	3,548.45
MW - 2	05/18/04	3,571.46	-	21.06	0.00	3,550.40
MW - 2	09/07/04	3,571.46	-	22.10	0.00	3,549.36
MW - 2	12/14/04	3,571.46	-	16.61	0.00	3,554.85
MW - 2	06/07/05	3,571.46	-	21.82	0.00	3,549.64
MW - 2	09/07/05	3,571.46	-	20.60	0.00	3,550.86
MW - 2	12/02/05	3,571.46	-	22.06	0.00	3,549.40
MW - 2	03/08/06	3,571.46	-	22.30	0.00	3,549.16
MW - 2	06/07/06	3,571.46	-	22.36	0.00	3,549.10
MW - 2	07/13/06	3,571.46	-	22.26	0.00	3,549.20
MW - 2	07/27/06	3,571.46	-	22.31	0.00	3,549.15
MW - 2	08/10/06	3,571.46	-	22.16	0.00	3,549.30
MW - 2	09/12/06	3,571.46	-	16.31	0.00	3,555.15
MW - 2	09/16/06	3,571.46	-	16.78	0.00	3,554.68

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	10/04/06	3,571.46	-	16.35	0.00	3,555.11
MW - 2	11/15/06	3,571.46	-	16.00	0.00	3,555.46
MW - 2	11/22/06	3,571.46	-	19.95	0.00	3,551.51
MW - 2	01/11/07	3,571.46	-	21.40	0.00	3,550.06
MW - 2	02/21/07	3,571.46	-	21.89	0.00	3,549.57
MW - 2	05/16/07	3,571.46	-	22.04	0.00	3,549.42
MW - 2	08/10/07	3,571.46	-	22.19	0.00	3,549.27
MW - 2	12/28/07	3,571.46	-	22.38	0.00	3,549.08
MW - 2	02/18/08	3,571.46	-	22.42	0.00	3,549.04
MW - 2	05/12/08	3,571.46	-	22.41	0.00	3,549.05
MW - 2	08/08/08	3,571.46	-	22.45	0.00	3,549.01
MW - 2	11/07/08	3,571.46	-	22.43	0.00	3,549.03
MW - 2	02/06/09	3,571.46	-	22.48	0.00	3,548.98
MW - 2	04/13/09	3,571.46	-	21.02	0.00	3,550.44
MW - 2	05/07/09	3,571.46	-	22.49	0.00	3,548.97
MW - 2	07/07/09	3,571.46	-	22.39	0.00	3,549.07
MW - 2	08/04/09	3,571.46	-	22.31	0.00	3,549.15
MW - 2	11/09/09	3,571.46	-	22.35	0.00	3,549.11
MW - 2	01/05/10	3,571.46	-	22.40	0.00	3,549.06
MW - 2	02/04/10	3,571.46	-	22.42	0.00	3,549.04
MW - 2	08/09/10	3,571.46	-	22.35	0.00	3,549.11
MW - 2	11/01/10	3,571.46	-	21.78	0.00	3,549.68
MW - 2	02/10/11	3,571.46	-	21.80	0.00	3,549.66
MW - 2	05/04/11	3,571.46	-	22.34	0.00	3,549.12
MW - 2	08/03/11	3,571.46	-	21.82	0.00	3,549.64
MW - 2	11/11/11	3,571.46	-	22.48	0.00	3,548.98
MW - 2	02/13/12	3,571.46	-	22.48	0.00	3,548.98
MW - 2	05/25/12	3,571.46	-	22.45	0.00	3,549.01
MW - 2	08/06/12	3,571.46	-	22.51	0.00	3,548.95
MW - 2	11/08/12	3,571.46	-	22.42	0.00	3,549.04
MW - 2	02/05/13	3,571.46	-	22.43	0.00	3,549.03
MW - 2	05/28/13	3,571.46	-	22.48	0.00	3,548.98
MW - 2	08/13/13	3,571.46	-	22.41	0.00	3,549.05
MW - 2	11/20/13	3,571.46	-	22.33	0.00	3,549.13
MW - 2	02/04/14	3,571.46	-	22.39	0.00	3,549.07
MW - 2	05/07/14	3,571.46	-	22.42	0.00	3,549.04
MW - 2	07/28/14	3,571.46	-	22.59	0.00	3,548.87
MW - 2	08/26/14	3,571.46	-	22.68	0.00	3,548.78
MW - 2	10/29/14	3,571.46	-	18.68	0.00	3,552.78
MW - 2	11/11/14	3,571.46	-	19.16	0.00	3,552.30
MW - 2	01/26/15	3,571.46	-	21.44	0.00	3,550.02
MW - 2	02/19/15	3,571.46	-	21.67	0.00	3,549.79
MW - 2	03/11/15	3,571.46	-	21.86	0.00	3,549.60
MW - 2	04/08/15	3,571.46	-	21.97	0.00	3,549.49
MW - 2	05/18/15	3,571.46	-	21.95	0.00	3,549.51

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	06/02/15	3,571.46	-	21.78	0.00	3,549.68
MW - 2	06/15/15	3,571.46	-	21.78	0.00	3,549.68
MW - 2	07/03/15	3,571.46	-	21.98	0.00	3,549.48
MW - 2	08/11/15	3,571.46	-	22.14	0.00	3,549.32
MW - 2	09/04/15	3,571.46	-	22.21	0.00	3,549.25
MW - 2	10/09/15	3,571.46	-	22.27	0.00	3,549.19
MW - 2	11/04/15	3,571.46	-	22.21	0.00	3,549.25
MW - 2	12/09/15	3,571.46	-	22.28	0.00	3,549.18
MW - 2	01/07/16	3,571.46	-	22.32	0.00	3,549.14
MW - 2	02/02/16	3,571.46	-	22.31	0.00	3,549.15
MW - 2	03/07/16	3,571.46	-	22.33	0.00	3,549.13
MW - 2	04/05/16	3,571.46	-	22.34	0.00	3,549.12
MW - 2	05/03/16	3,571.46	-	22.35	0.00	3,549.11
MW - 2	06/27/16	3,571.46	-	22.41	0.00	3,549.05
MW - 2	07/26/16	3,571.46	-	22.44	0.00	3,549.02
MW - 2	08/02/16	3,571.46	-	22.45	0.00	3,549.01
MW - 2	09/20/16	3,571.46	-	21.23	0.00	3,550.23
MW - 2	10/03/16	3,571.46	-	20.59	0.00	3,550.87
MW - 3	02/22/00	3,573.46	-	20.95	0.00	3,552.51
MW - 3	02/23/00	3,573.46	-	20.92	0.00	3,552.54
MW - 3	04/06/00	3,573.46	-	20.85	0.00	3,552.61
MW - 3	08/29/00	3,573.46	-	20.53	0.00	3,552.93
MW - 3	12/04/00	3,573.46	-	20.64	0.00	3,552.82
MW - 3	01/23/01	3,573.46	-	20.60	0.00	3,552.86
MW - 3	05/16/01	3,573.46	-	20.69	0.00	3,552.77
MW - 3	08/06/01	3,573.46	-	20.89	0.00	3,552.57
MW - 3	09/27/01	3,573.46	-	20.96	0.00	3,552.50
MW - 3	10/29/01	3,573.46	-	20.96	0.00	3,552.50
MW - 3	03/29/02	3,573.46	-	20.54	0.00	3,552.92
MW - 3	05/20/02	3,573.46	-	20.78	0.00	3,552.68
MW - 3	09/10/02	3,573.46	-	20.82	0.00	3,552.64
MW - 3	11/14/02	3,573.46	-	20.68	0.00	3,552.78
MW - 3	12/03/03	3,573.46	-	21.18	0.00	3,552.28
MW - 3	03/03/04	3,573.46	-	21.17	0.00	3,552.29
MW - 3	05/18/04	3,573.46	-	20.24	0.00	3,553.22
MW - 3	09/07/04	3,573.46	-	20.58	0.00	3,552.88
MW - 3	12/14/04	3,573.46	-	18.47	0.00	3,554.99
MW - 3	03/08/05	3,573.46	-	20.28	0.00	3,553.18
MW - 3	06/07/05	3,573.46	-	20.46	0.00	3,553.00
MW - 3	09/07/05	3,573.46	-	20.19	0.00	3,553.27
MW - 3	12/02/05	3,573.46	-	20.53	0.00	3,552.93
MW - 3	03/08/06	3,573.46	-	20.57	0.00	3,552.89
MW - 3	06/07/06	3,573.46	-	20.62	0.00	3,552.84
MW - 3	09/12/06	3,573.46	-	18.42	0.00	3,555.04

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/22/06	3,573.46	-	20.13	0.00	3,553.33
MW - 3	02/21/07	3,573.46	-	20.49	0.00	3,552.97
MW - 3	05/16/07	3,573.46	-	20.46	0.00	3,553.00
MW - 3	08/10/07	3,573.46	-	20.53	0.00	3,552.93
MW - 3	12/28/07	3,573.46	-	26.00	0.00	3,547.46
MW - 3	02/18/08	3,573.46	-	20.60	0.00	3,552.86
MW - 3	05/12/08	3,573.46	-	20.61	0.00	3,552.85
MW - 3	08/08/08	3,573.46	-	20.65	0.00	3,552.81
MW - 3	11/07/08	3,573.46	-	20.73	0.00	3,552.73
MW - 3	02/06/09	3,573.46	-	20.81	0.00	3,552.65
MW - 3	05/07/09	3,573.46	-	20.68	0.00	3,552.78
MW - 3	08/04/09	3,573.46	-	20.58	0.00	3,552.88
MW - 3	11/09/09	3,573.46	-	20.63	0.00	3,552.83
MW - 3	01/05/10	3,573.46	-	20.66	0.00	3,552.80
MW - 3	02/04/10	3,573.46	-	20.66	0.00	3,552.80
MW - 3	08/09/10	3,573.46	-	20.64	0.00	3,552.82
MW - 3	11/01/10	3,573.46	-	20.54	0.00	3,552.92
MW - 3	02/10/11	3,573.46	-	20.53	0.00	3,552.93
MW - 3	05/04/11	3,573.46	-	20.60	0.00	3,552.86
MW - 3	08/03/11	3,573.46	-	20.50	0.00	3,552.96
MW - 3	11/11/11	3,573.46	-	20.72	0.00	3,552.74
MW - 3	02/13/12	3,573.46	-	20.69	0.00	3,552.77
MW - 3	05/25/12	3,573.46	-	20.69	0.00	3,552.77
MW - 3	08/06/12	3,573.46	-	20.72	0.00	3,552.74
MW - 3	11/08/12	3,573.46	-	20.67	0.00	3,552.79
MW - 3	02/05/13	3,573.46	-	20.89	0.00	3,552.57
MW - 3	05/28/13	3,573.46	-	20.76	0.00	3,552.70
MW - 3	08/13/13	3,573.46	-	20.65	0.00	3,552.81
MW - 3	11/20/13	3,573.46	-	20.62	0.00	3,552.84
MW - 3	02/04/14	3,573.46	-	20.63	0.00	3,552.83
MW - 3	05/07/14	3,573.46	-	20.67	0.00	3,552.79
MW - 3	07/28/14	3,573.46	-	20.90	0.00	3,552.56
MW - 3	08/26/14	3,573.46	-	20.96	0.00	3,552.50
MW - 3	10/29/14	3,573.46	-	19.76	0.00	3,553.70
MW - 3	11/11/14	3,573.46	-	19.95	0.00	3,553.51
MW - 3	01/26/15	3,573.46	-	20.45	0.00	3,553.01
MW - 3	02/19/15	3,573.46	-	20.48	0.00	3,552.98
MW - 3	03/11/15	3,573.46	-	20.50	0.00	3,552.96
MW - 3	04/08/15	3,573.46	-	20.51	0.00	3,552.95
MW - 3	05/18/15	3,573.46	-	20.46	0.00	3,553.00
MW - 3	06/15/15	3,573.46	-	20.45	0.00	3,553.01
MW - 3	07/03/15	3,573.46	-	20.51	0.00	3,552.95
MW - 3	08/11/15	3,573.46	-	20.56	0.00	3,552.90
MW - 3	09/04/15	3,573.46	-	20.57	0.00	3,552.89
MW - 3	10/09/15	3,573.46	-	20.59	0.00	3,552.87

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/04/15	3,573.46	-	20.55	0.00	3,552.91
MW - 3	12/09/15	3,573.46	-	20.57	0.00	3,552.89
MW - 3	01/07/16	3,573.46	-	20.59	0.00	3,552.87
MW - 3	02/02/16	3,573.46	-	20.55	0.00	3,552.91
MW - 3	03/07/16	3,573.46	-	20.59	0.00	3,552.87
MW - 3	04/05/16	3,573.46	-	20.58	0.00	3,552.88
MW - 3	05/03/16	3,573.46	-	20.63	0.00	3,552.83
MW - 3	06/27/16	3,573.46	-	20.66	0.00	3,552.80
MW - 3	07/26/16	3,573.46	-	20.67	0.00	3,552.79
MW - 3	08/02/16	3,573.46	-	20.68	0.00	3,552.78
MW - 3	09/20/16	3,573.46	-	20.17	0.00	3,553.29
MW - 3	10/03/16	3,573.46	-	20.12	0.00	3,553.34
MW - 4	02/22/00	3,570.15	21.94	22.00	0.06	3,548.20
MW - 4	04/06/00	3,570.15	20.88	20.90	0.02	3,549.27
MW - 4	08/29/00	3,570.15	20.43	20.54	0.11	3,549.70
MW - 4	12/04/00	3,570.15	20.54	20.68	0.14	3,549.59
MW - 4	01/23/01	3,570.15	20.62	20.81	0.19	3,549.50
MW - 4	05/16/01	3,570.15	20.57	20.89	0.32	3,549.53
MW - 4	08/06/01	3,570.15	20.83	21.07	0.24	3,549.28
MW - 4	09/27/01	3,570.15	20.89	21.16	0.27	3,549.22
MW - 4	10/29/01	3,570.15	20.89	21.16	0.27	3,549.22
MW - 4	03/29/02	3,570.15	20.62	20.75	0.13	3,549.51
MW - 4	05/20/02	3,570.15	20.64	20.93	0.29	3,549.47
MW - 4	09/10/02	3,570.15	20.65	20.98	0.33	3,549.45
MW - 4	10/08/02	3,570.15	20.74	21.14	0.40	3,549.35
MW - 4	10/14/02	3,570.15	20.76	20.92	0.16	3,549.37
MW - 4	10/22/02	3,570.15	20.82	20.90	0.08	3,549.32
MW - 4	11/14/02	3,570.15	20.45	20.50	0.05	3,549.69
MW - 4	12/03/03	3,570.15	20.93	21.19	0.26	3,549.18
MW - 4	01/14/04	3,570.15	21.43	21.86	0.43	3,548.66
MW - 4	01/19/04	3,570.15	21.42	21.85	0.43	3,548.67
MW - 4	01/27/04	3,570.15	21.47	21.91	0.44	3,548.61
MW - 4	02/03/04	3,570.15	21.42	21.90	0.48	3,548.66
MW - 4	02/10/04	3,570.15	20.40	20.68	0.28	3,549.71
MW - 4	02/19/04	3,570.15	21.18	21.47	0.29	3,548.93
MW - 4	02/23/04	3,570.15	20.36	20.57	0.21	3,549.76
MW - 4	03/02/04	3,570.15	20.41	20.59	0.18	3,549.71
MW - 4	03/03/04	3,570.15	21.00	21.14	0.14	3,549.13
MW - 4	03/11/04	3,570.15	21.18	21.33	0.15	3,548.95
MW - 4	03/15/04	3,570.15	21.15	21.19	0.04	3,548.99
MW - 4	03/17/04	3,570.15	21.46	21.60	0.14	3,548.67
MW - 4	03/22/04	3,570.15	21.51	21.65	0.14	3,548.62
MW - 4	03/24/04	3,570.15	20.96	21.02	0.06	3,549.18
MW - 4	03/29/04	3,570.15	21.48	21.57	0.09	3,548.66

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	04/07/04	3,570.15	-	21.10	0.00	3,549.05
MW - 4	04/13/04	3,570.15	-	19.63	0.00	3,550.52
MW - 4	04/20/04	3,570.15	-	20.06	0.00	3,550.09
MW - 4	04/27/04	3,570.15	-	20.35	0.00	3,549.80
MW - 4	05/11/04	3,570.15	-	20.86	0.00	3,549.29
MW - 4	05/18/04	3,570.15	-	20.62	0.00	3,549.53
MW - 4	06/17/04	3,570.15	20.65	20.66	0.01	3,549.50
MW - 4	06/23/04	3,570.15	-	20.68	0.00	3,549.47
MW - 4	06/30/04	3,570.15	-	20.66	0.00	3,549.49
MW - 4	07/07/04	3,570.15	20.67	20.68	0.01	3,549.48
MW - 4	07/21/04	3,570.15	-	20.48	0.00	3,549.67
MW - 4	07/23/04	3,570.15	-	20.48	0.00	3,549.67
MW - 4	08/04/04	3,570.15	-	20.47	0.00	3,549.68
MW - 4	08/11/04	3,570.15	-	20.47	0.00	3,549.68
MW - 4	09/07/04	3,570.15	sheen	19.52	0.00	3,550.63
MW - 4	09/13/04	3,570.15	sheen	20.55	0.00	3,549.60
MW - 4	09/21/04	3,570.15	sheen	19.59	0.00	3,550.56
MW - 4	10/12/04	3,570.15	sheen	19.20	0.00	3,550.95
MW - 4	10/21/04	3,570.15	sheen	19.62	0.00	3,550.53
MW - 4	10/28/04	3,570.15	sheen	19.60	0.00	3,550.55
MW - 4	11/03/04	3,570.15	sheen	19.89	0.00	3,550.26
MW - 4	11/10/04	3,570.15	sheen	19.80	0.00	3,550.35
MW - 4	11/17/04	3,570.15	sheen	19.97	0.00	3,550.18
MW - 4	12/01/04	3,570.15	sheen	19.39	0.00	3,550.76
MW - 4	12/08/04	3,570.15	sheen	19.49	0.00	3,550.66
MW - 4	12/14/04	3,570.15	-	19.70	0.00	3,550.45
MW - 4	12/16/04	3,570.15	sheen	19.70	0.00	3,550.45
MW - 4	12/28/04	3,570.15	sheen	19.51	0.00	3,550.64
MW - 4	01/05/05	3,570.15	sheen	20.00	0.00	3,550.15
MW - 4	01/13/05	3,570.15	sheen	19.98	0.00	3,550.17
MW - 4	01/19/05	3,570.15	sheen	20.01	0.00	3,550.14
MW - 4	01/27/05	3,570.15	sheen	20.08	0.00	3,550.07
MW - 4	02/03/05	3,570.15	sheen	20.11	0.00	3,550.04
MW - 4	02/10/05	3,570.15	sheen	20.17	0.00	3,549.98
MW - 4	02/17/05	3,570.15	sheen	20.23	0.00	3,549.92
MW - 4	02/24/05	3,570.15	sheen	20.19	0.00	3,549.96
MW - 4	03/03/05	3,570.15	sheen	20.14	0.00	3,550.01
MW - 4	03/08/05	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/10/05	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/17/05	3,570.15	sheen	20.29	0.00	3,549.86
MW - 4	03/24/05	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/31/05	3,570.15	sheen	20.38	0.00	3,549.77
MW - 4	04/07/05	3,570.15	sheen	20.37	0.00	3,549.78
MW - 4	04/14/05	3,570.15	sheen	20.29	0.00	3,549.86
MW - 4	05/24/05	3,570.15	sheen	18.99	0.00	3,551.16

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	06/07/05	3,570.15	sheen	20.39	0.00	3,549.76
MW - 4	06/23/05	3,570.15	sheen	20.50	0.00	3,549.65
MW - 4	07/28/05	3,570.15	sheen	20.50	0.00	3,549.65
MW - 4	08/24/05	3,570.15	sheen	20.49	0.00	3,549.66
MW - 4	09/07/05	3,570.15	sheen	20.25	0.00	3,549.90
MW - 4	09/30/05	3,570.15	-	20.30	0.00	3,549.85
MW - 4	10/28/05	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	11/16/05	3,570.15	sheen	20.62	0.00	3,549.53
MW - 4	12/02/05	3,570.15	-	20.67	0.00	3,549.48
MW - 4	12/30/05	3,570.15	sheen	20.82	0.00	3,549.33
MW - 4	01/18/06	3,570.15	sheen	20.82	0.00	3,549.33
MW - 4	02/17/06	3,570.15	sheen	20.83	0.00	3,549.32
MW - 4	03/08/06	3,570.15	sheen	20.75	0.00	3,549.40
MW - 4	03/20/06	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	04/19/06	3,570.15	sheen	20.60	0.00	3,549.55
MW - 4	05/25/06	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	06/07/06	3,570.15	20.61	20.62	0.01	3,549.54
MW - 4	06/08/06	3,570.15	20.59	20.61	0.02	3,549.56
MW - 4	07/13/06	3,570.15	sheen	20.59	0.00	3,549.56
MW - 4	07/27/06	3,570.15	sheen	20.77	0.00	3,549.38
MW - 4	08/10/06	3,570.15	sheen	20.84	0.00	3,549.31
MW - 4	09/12/06	3,570.15	-	19.65	0.00	3,550.50
MW - 4	09/16/06	3,570.15	sheen	19.67	0.00	3,550.48
MW - 4	10/04/06	3,570.15	sheen	19.71	0.00	3,550.44
MW - 4	11/15/06	3,570.15	sheen	19.42	0.00	3,550.73
MW - 4	11/22/06	3,570.15	sheen	20.10	0.00	3,550.05
MW - 4	01/11/07	3,570.15	20.42	20.43	0.01	3,549.73
MW - 4	02/05/07	3,570.15	sheen	20.49	0.00	3,549.66
MW - 4	02/21/07	3,570.15	sheen	20.65	0.00	3,549.50
MW - 4	03/27/07	3,570.15	20.52	20.54	0.02	3,549.63
MW - 4	05/16/07	3,570.15	sheen	20.54	0.00	3,549.61
MW - 4	08/10/07	3,570.15	20.56	20.58	0.02	3,549.59
MW - 4	12/28/07	3,570.15	sheen	20.83	0.00	3,549.32
MW - 4	02/18/08	3,570.15	-	20.90	0.00	3,549.25
MW - 4	04/10/08	3,570.15	20.61	20.68	0.07	3,549.53
MW - 4	05/12/08	3,570.15	20.61	20.67	0.06	3,549.53
MW - 4	06/27/08	3,570.15	20.67	20.77	0.10	3,549.47
MW - 4	07/16/08	3,570.15	20.57	20.67	0.10	3,549.57
MW - 4	08/08/08	3,570.15	20.52	20.57	0.05	3,549.62
MW - 4	08/12/08	3,570.15	-	20.61	0.00	3,549.54
MW - 4	10/08/08	3,570.15	-	19.78	0.00	3,550.37
MW - 4	10/24/08	3,570.15	-	20.78	0.00	3,549.37
MW - 4	11/03/08	3,570.15	-	20.94	0.00	3,549.21
MW - 4	11/07/08	3,570.15	-	20.96	0.00	3,549.19
MW - 4	11/10/08	3,570.15	-	20.98	0.00	3,549.17

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	11/17/08	3,570.15	-	21.05	0.00	3,549.10
MW - 4	11/24/08	3,570.15	-	20.01	0.00	3,550.14
MW - 4	12/01/08	3,570.15	-	26.92	0.00	3,543.23
MW - 4	12/08/08	3,570.15	-	20.11	0.00	3,550.04
MW - 4	12/15/08	3,570.15	-	26.95	0.00	3,543.20
MW - 4	12/19/08	3,570.15	-	20.85	0.00	3,549.30
MW - 4	12/22/08	3,570.15	-	20.64	0.00	3,549.51
MW - 4	01/07/09	3,570.15	-	20.86	0.00	3,549.29
MW - 4	01/12/09	3,570.15	-	19.87	0.00	3,550.28
MW - 4	01/15/09	3,570.15	-	20.89	0.00	3,549.26
MW - 4	01/19/09	3,570.15	-	20.87	0.00	3,549.28
MW - 4	01/21/09	3,570.15	-	20.94	0.00	3,549.21
MW - 4	01/29/09	3,570.15	-	20.89	0.00	3,549.26
MW - 4	02/06/09	3,570.15	-	20.98	0.00	3,549.17
MW - 4	02/17/09	3,570.15	-	21.10	0.00	3,549.05
MW - 4	02/23/09	3,570.15	-	21.13	0.00	3,549.02
MW - 4	03/02/09	3,570.15	-	21.13	0.00	3,549.02
MW - 4	03/05/09	3,570.15	-	20.00	0.00	3,550.15
MW - 4	03/09/09	3,570.15	-	21.05	0.00	3,549.10
MW - 4	03/17/09	3,570.15	-	21.03	0.00	3,549.12
MW - 4	03/18/09	3,570.15	-	21.04	0.00	3,549.11
MW - 4	03/26/09	3,570.15	-	21.05	0.00	3,549.10
MW - 4	03/30/09	3,570.15	-	20.99	0.00	3,549.16
MW - 4	04/06/09	3,570.15	-	21.23	0.00	3,548.92
MW - 4	04/16/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/20/09	3,570.15	-	21.25	0.00	3,548.90
MW - 4	04/23/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/27/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/30/09	3,570.15	-	21.01	0.00	3,549.14
MW - 4	05/07/09	3,570.15	-	21.20	0.00	3,548.95
MW - 4	05/21/09	3,570.15	-	21.10	0.00	3,549.05
MW - 4	05/26/09	3,570.15	-	20.84	0.00	3,549.31
MW - 4	06/02/09	3,570.15	-	20.80	0.00	3,549.35
MW - 4	06/08/09	3,570.15	-	20.77	0.00	3,549.38
MW - 4	06/17/09	3,570.15	-	20.98	0.00	3,549.17
MW - 4	06/29/09	3,570.15	-	20.99	0.00	3,549.16
MW - 4	07/07/09	3,570.15	-	20.73	0.00	3,549.42
MW - 4	07/14/09	3,570.15	-	20.72	0.00	3,549.43
MW - 4	07/21/09	3,570.15	-	20.83	0.00	3,549.32
MW - 4	07/27/09	3,570.15	-	20.68	0.00	3,549.47
MW - 4	07/30/09	3,570.15	-	20.72	0.00	3,549.43
MW - 4	08/04/09	3,570.15	-	20.71	0.00	3,549.44
MW - 4	08/06/09	3,570.15	-	20.75	0.00	3,549.40
MW - 4	08/19/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	08/27/09	3,570.15	-	20.72	0.00	3,549.43

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	08/31/09	3,570.15	-	20.73	0.00	3,549.42
MW - 4	09/10/09	3,570.15	-	20.77	0.00	3,549.38
MW - 4	09/17/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	09/25/09	3,570.15	-	20.20	0.00	3,549.95
MW - 4	09/29/09	3,570.15	-	20.85	0.00	3,549.30
MW - 4	10/06/09	3,570.15	-	20.81	0.00	3,549.34
MW - 4	10/19/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	10/26/09	3,570.15	-	20.74	0.00	3,549.41
MW - 4	11/06/09	3,570.15	-	20.70	0.00	3,549.45
MW - 4	11/09/09	3,570.15	-	20.75	0.00	3,549.40
MW - 4	12/08/09	3,570.15	-	20.84	0.00	3,549.31
MW - 4	01/05/10	3,570.15	-	20.86	0.00	3,549.29
MW - 4	01/21/10	3,570.15	-	20.79	0.00	3,549.36
MW - 4	02/04/10	3,570.15	-	20.61	0.00	3,549.54
MW - 4	03/03/10	3,570.15	-	20.98	0.00	3,549.17
MW - 4	04/16/10	3,570.15	-	20.96	0.00	3,549.19
MW - 4	08/09/10	3,570.15	-	20.74	0.00	3,549.41
MW - 4	11/01/10	3,570.15	-	20.66	0.00	3,549.49
MW - 4	02/10/11	3,570.15	-	20.65	0.00	3,549.50
MW - 4	05/04/11	3,570.15	-	20.81	0.00	3,549.34
MW - 4	08/03/11	3,570.15	-	20.61	0.00	3,549.54
MW - 4	11/11/11	3,570.15	-	21.00	0.00	3,549.15
MW - 4	02/13/12	3,570.15	-	21.06	0.00	3,549.09
MW - 4	05/25/12	3,570.15	-	21.08	0.00	3,549.07
MW - 4	08/06/12	3,570.15	-	21.09	0.00	3,549.06
MW - 4	11/08/12	3,570.15	-	20.91	0.00	3,549.24
MW - 4	02/05/13	3,570.15	-	20.94	0.00	3,549.21
MW - 4	05/28/13	3,570.15	-	21.02	0.00	3,549.13
MW - 4	05/30/13	3,570.15	-	21.01	0.00	3,549.14
MW - 4	06/12/13	3,570.15	-	21.02	0.00	3,549.13
MW - 4	08/06/13	3,570.15	-	21.81	0.00	3,548.34
MW - 4	08/13/13	3,570.15	-	20.87	0.00	3,549.28
MW - 4	11/20/13	3,570.15	-	20.91	0.00	3,549.24
MW - 4	12/23/13	3,570.15	-	20.92	0.00	3,549.23
MW - 4	02/04/14	3,570.15	-	20.66	0.00	3,549.49
MW - 4	05/07/14	3,570.15	-	20.87	0.00	3,549.28
MW - 4	07/28/14	3,570.15	-	21.05	0.00	3,549.10
MW - 4	08/26/14	3,570.15	-	21.12	0.00	3,549.03
MW - 4	10/29/14	3,570.15	-	19.97	0.00	3,550.18
MW - 4	11/11/14	3,570.15	-	19.99	0.00	3,550.16
MW - 4	01/26/15	3,570.15	-	20.39	0.00	3,549.76
MW - 4	02/19/15	3,570.15	-	20.41	0.00	3,549.74
MW - 4	03/11/15	3,570.15	-	20.46	0.00	3,549.69
MW - 4	04/08/15	3,570.15	-	20.48	0.00	3,549.67
MW - 4	05/18/15	3,570.15	-	20.38	0.00	3,549.77

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	06/15/15	3,570.15	-	20.37	0.00	3,549.78
MW - 4	07/03/15	3,570.15	-	20.46	0.00	3,549.69
MW - 4	08/11/15	3,570.15	-	20.56	0.00	3,549.59
MW - 4	09/04/15	3,570.15	-	20.61	0.00	3,549.54
MW - 4	10/09/15	3,570.15	-	21.17	0.00	3,548.98
MW - 4	11/04/15	3,570.15	-	21.14	0.00	3,549.01
MW - 4	12/09/15	3,570.15	-	21.22	0.00	3,548.93
MW - 4	01/07/16	3,570.15	-	21.12	0.00	3,549.03
MW - 4	02/02/16	3,570.15	-	20.93	0.00	3,549.22
MW - 4	03/07/16	3,570.15	-	21.08	0.00	3,549.07
MW - 4	04/05/16	3,570.15	-	21.10	0.00	3,549.05
MW - 4	05/03/16	3,570.15	-	20.81	0.00	3,549.34
MW - 4	06/06/16	3,570.15	-	20.87	0.00	3,549.28
MW - 4	06/27/16	3,570.15	-	20.83	0.00	3,549.32
MW - 4	07/26/16	3,570.15	-	20.85	0.00	3,549.30
MW - 4	08/02/16	3,570.15	-	20.77	0.00	3,549.38
MW - 4	08/29/16	3,570.15	-	20.65	0.00	3,549.50
MW - 4	09/20/16	3,570.15	-	20.11	0.00	3,550.04
MW - 4	10/03/16	3,570.15	-	20.18	0.00	3,549.97
MW - 4	10/25/16	3,570.15	-	20.29	0.00	3,549.86
MW - 4	12/02/16	3,570.15	-	20.49	0.00	3,549.66
MW - 4	12/26/16	3,570.15	-	20.58	0.00	3,549.57
MW - 5	02/22/00	3,562.92	-	19.81	0.00	3,543.11
MW - 5	02/23/00	3,562.92	-	19.80	0.00	3,543.12
MW - 5	04/06/00	3,572.92	-	19.74	0.00	3,553.18
MW - 5	08/29/00	3,572.92	-	19.33	0.00	3,553.59
MW - 5	12/04/00	3,572.92	-	19.46	0.00	3,553.46
MW - 5	01/23/01	3,572.92	-	19.52	0.00	3,553.40
MW - 5	05/16/01	3,572.92	-	19.55	0.00	3,553.37
MW - 5	08/06/01	3,572.92	-	19.80	0.00	3,553.12
MW - 5	09/27/01	3,572.92	-	19.86	0.00	3,553.06
MW - 5	10/29/01	3,572.92	-	19.86	0.00	3,553.06
MW - 5	03/29/02	3,572.92	-	19.19	0.00	3,553.73
MW - 5	05/20/02	3,572.92	-	19.65	0.00	3,553.27
MW - 5	09/10/02	3,572.92	-	19.72	0.00	3,553.20
MW - 5	11/14/02	3,572.92	-	19.55	0.00	3,553.37
MW - 5	12/03/03	3,572.92	-	20.09	0.00	3,552.83
MW - 5	05/18/04	3,572.92	-	18.90	0.00	3,554.02
MW - 5	09/07/04	3,572.92	-	19.34	0.00	3,553.58
MW - 5	12/14/04	3,572.92	-	15.53	0.00	3,557.39
MW - 5	03/08/05	3,572.92	-	18.68	0.00	3,554.24
MW - 5	06/07/05	3,572.92	-	19.12	0.00	3,553.80
MW - 5	09/07/05	3,572.92	-	18.55	0.00	3,554.37
MW - 5	12/02/05	3,572.92	-	19.24	0.00	3,553.68

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	03/08/06	3,572.92	-	19.32	0.00	3,553.60
MW - 5	06/07/06	3,572.92	-	19.39	0.00	3,553.53
MW - 5	09/12/06	3,572.92	-	15.41	0.00	3,557.51
MW - 5	11/22/06	3,572.92	-	18.49	0.00	3,554.43
MW - 5	02/21/07	3,572.92	-	19.16	0.00	3,553.76
MW - 5	05/16/07	3,572.92	-	19.07	0.00	3,553.85
MW - 5	08/10/07	3,572.92	-	19.27	0.00	3,553.65
MW - 5	12/28/07	3,572.92	-	19.35	0.00	3,553.57
MW - 5	02/18/08	3,572.92	-	19.35	0.00	3,553.57
MW - 5	05/08/08	3,572.92	-	19.38	0.00	3,553.54
MW - 5	08/08/08	3,572.92	-	19.46	0.00	3,553.46
MW - 5	11/07/08	3,572.92	-	19.55	0.00	3,553.37
MW - 5	02/06/09	3,572.92	-	19.66	0.00	3,553.26
MW - 5	05/07/09	3,572.92	-	19.52	0.00	3,553.40
MW - 5	08/04/09	3,572.92	-	19.37	0.00	3,553.55
MW - 5	11/09/09	3,572.92	-	19.40	0.00	3,553.52
MW - 5	01/05/10	3,572.92	-	19.46	0.00	3,553.46
MW - 5	02/04/10	3,572.92	-	19.46	0.00	3,553.46
MW - 5	08/09/10	3,572.92	-	19.41	0.00	3,553.51
MW - 5	11/01/10	3,572.92	-	19.21	0.00	3,553.71
MW - 5	02/10/11	3,572.92	-	19.23	0.00	3,553.69
MW - 5	05/04/11	3,572.92	-	19.38	0.00	3,553.54
MW - 5	08/03/11	3,572.92	-	19.21	0.00	3,553.71
MW - 5	11/11/11	3,572.92	-	19.53	0.00	3,553.39
MW - 5	02/13/12	3,572.92	-	19.51	0.00	3,553.41
MW - 5	05/25/12	3,572.92	-	19.53	0.00	3,553.39
MW - 5	08/06/12	3,572.92	-	19.55	0.00	3,553.37
MW - 5	11/08/12	3,572.92	-	19.50	0.00	3,553.42
MW - 5	02/05/13	3,572.92	-	19.53	0.00	3,553.39
MW - 5	05/28/13	3,572.92	-	19.61	0.00	3,553.31
MW - 5	08/13/13	3,572.92	-	19.48	0.00	3,553.44
MW - 5	11/20/13	3,572.92	-	19.42	0.00	3,553.50
MW - 5	02/04/14	3,572.92	-	19.45	0.00	3,553.47
MW - 5	05/07/14	3,572.92	-	19.51	0.00	3,553.41
MW - 5	07/28/14	3,572.92	-	19.83	0.00	3,553.09
MW - 5	08/26/14	3,572.92	-	19.93	0.00	3,552.99
MW - 5	10/29/14	3,572.92	-	17.59	0.00	3,555.33
MW - 5	11/11/14	3,572.92	-	18.06	0.00	3,554.86
MW - 5	01/26/15	3,572.92	-	19.12	0.00	3,553.80
MW - 5	02/19/15	3,572.92	-	19.17	0.00	3,553.75
MW - 5	03/11/15	3,572.92	-	19.21	0.00	3,553.71
MW - 5	04/08/15	3,572.92	-	19.22	0.00	3,553.70
MW - 5	05/18/15	3,572.92	-	19.09	0.00	3,553.83
MW - 5	06/15/15	3,572.92	-	19.12	0.00	3,553.80
MW - 5	07/03/15	3,572.92	-	19.22	0.00	3,553.70

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	08/11/15	3,572.92	-	19.32	0.00	3,553.60
MW - 5	09/04/15	3,572.92	-	19.34	0.00	3,553.58
MW - 5	10/09/15	3,572.92	-	19.37	0.00	3,553.55
MW - 5	11/04/15	3,572.92	-	19.32	0.00	3,553.60
MW - 5	12/09/15	3,572.92	-	19.34	0.00	3,553.58
MW - 5	01/07/16	3,572.92	-	19.36	0.00	3,553.56
MW - 5	02/02/16	3,572.92	-	19.35	0.00	3,553.57
MW - 5	03/07/16	3,572.92	-	19.35	0.00	3,553.57
MW - 5	04/05/16	3,572.92	-	19.38	0.00	3,553.54
MW - 5	05/03/16	3,572.92	-	19.40	0.00	3,553.52
MW - 5	06/27/16	3,572.92	-	19.48	0.00	3,553.44
MW - 5	07/26/16	3,572.92	-	19.50	0.00	3,553.42
MW - 5	08/02/16	3,572.92	-	19.52	0.00	3,553.40
MW - 5	09/20/16	3,572.92	-	18.54	0.00	3,554.38
MW - 5	10/03/16	3,572.92	-	18.61	0.00	3,554.31
MW - 6	09/18/01	3,572.11	-	19.90	0.00	3,552.21
MW - 6	09/27/01	3,572.11	-	19.86	0.00	3,552.25
MW - 6	10/29/01	3,572.11	-	19.86	0.00	3,552.25
MW - 6	03/29/02	3,572.11	-	19.62	0.00	3,552.49
MW - 6	05/20/02	3,572.11	-	19.56	0.00	3,552.55
MW - 6	09/10/02	3,572.11	-	19.68	0.00	3,552.43
MW - 6	11/14/02	3,572.11	-	19.52	0.00	3,552.59
MW - 6	12/03/03	3,572.11	-	20.06	0.00	3,552.05
MW - 6	05/18/04	3,572.11	-	18.25	0.00	3,553.86
MW - 6	09/07/04	3,572.11	-	18.85	0.00	3,553.26
MW - 6	12/14/04	3,572.11	-	17.65	0.00	3,554.46
MW - 6	03/08/05	3,572.11	-	18.11	0.00	3,554.00
MW - 6	06/07/05	3,572.11	-	18.28	0.00	3,553.83
MW - 6	09/07/05	3,572.11	-	18.01	0.00	3,554.10
MW - 6	12/02/05	3,572.11	-	18.44	0.00	3,553.67
MW - 6	03/08/06	3,572.11	-	18.53	0.00	3,553.58
MW - 6	06/07/06	3,572.11	-	18.66	0.00	3,553.45
MW - 6	09/12/06	3,572.11	-	17.39	0.00	3,554.72
MW - 6	11/22/06	3,572.11	-	18.07	0.00	3,554.04
MW - 6	02/21/07	3,572.11	-	18.36	0.00	3,553.75
MW - 6	05/16/07	3,572.11	-	18.37	0.00	3,553.74
MW - 6	08/10/07	3,572.11	-	18.51	0.00	3,553.60
MW - 6	12/28/07	3,572.11	-	19.57	0.00	3,552.54
MW - 6	02/18/08	3,572.11	-	18.58	0.00	3,553.53
MW - 6	05/08/08	3,572.11	-	18.64	0.00	3,553.47
MW - 6	08/08/08	3,572.11	-	18.88	0.00	3,553.23
MW - 6	11/07/08	3,572.11	-	19.35	0.00	3,552.76
MW - 6	02/06/09	3,572.11	-	19.55	0.00	3,552.56
MW - 6	05/07/09	3,572.11	-	18.94	0.00	3,553.17

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	08/04/09	3,572.11	-	18.56	0.00	3,553.55
MW - 6	11/09/09	3,572.11	-	18.64	0.00	3,553.47
MW - 6	01/05/10	3,572.11	-	18.74	0.00	3,553.37
MW - 6	02/04/10	3,572.11	-	18.74	0.00	3,553.37
MW - 6	08/09/10	3,572.11	-	18.64	0.00	3,553.47
MW - 6	11/01/10	3,572.11	-	18.39	0.00	3,553.72
MW - 6	02/10/11	3,572.11	-	18.41	0.00	3,553.70
MW - 6	05/04/11	WELL PLUGGED & ABANDONED.				
MW - 7	09/18/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	09/27/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	10/29/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	03/29/02	3,569.75	-	19.82	0.00	3,549.93
MW - 7	04/16/02	3,569.75	-	22.28	0.00	3,547.47
MW - 7	05/13/02	3,569.75	-	22.90	0.00	3,546.85
MW - 7	05/20/02	3,569.75	-	22.95	0.00	3,546.80
MW - 7	09/10/02	3,569.75	-	23.00	0.00	3,546.75
MW - 7	11/14/02	3,569.75	-	21.19	0.00	3,548.56
MW - 7	12/03/03	3,569.75	-	23.54	0.00	3,546.21
MW - 7	05/18/04	3,569.75	-	21.38	0.00	3,548.37
MW - 7	09/07/04	3,569.75	-	22.35	0.00	3,547.40
MW - 7	12/14/04	3,569.75	-	18.25	0.00	3,551.50
MW - 7	03/08/05	3,569.75	-	21.48	0.00	3,548.27
MW - 7	06/07/05	3,569.75	-	22.27	0.00	3,547.48
MW - 7	09/07/05	3,569.75	-	21.21	0.00	3,548.54
MW - 7	12/02/05	3,569.75	-	22.64	0.00	3,547.11
MW - 7	03/08/06	3,569.75	-	22.99	0.00	3,546.76
MW - 7	06/07/06	3,569.75	-	23.06	0.00	3,546.69
MW - 7	09/12/06	3,569.75	-	15.57	0.00	3,554.18
MW - 7	11/22/06	3,569.75	-	20.81	0.00	3,548.94
MW - 7	02/21/07	3,569.75	-	22.41	0.00	3,547.34
MW - 7	05/16/07	3,569.75	-	22.60	0.00	3,547.15
MW - 7	08/10/07	3,569.75	-	22.84	0.00	3,546.91
MW - 7	12/28/07	3,569.75	-	23.05	0.00	3,546.70
MW - 7	02/18/08	3,569.75	-	23.12	0.00	3,546.63
MW - 7	05/08/08	3,569.75	-	23.16	0.00	3,546.59
MW - 7	08/08/08	3,569.75	-	23.19	0.00	3,546.56
MW - 7	11/07/08	3,569.75	-	23.15	0.00	3,546.60
MW - 7	02/06/09	3,569.75	-	23.31	0.00	3,546.44
MW - 7	05/07/09	3,569.75	-	23.34	0.00	3,546.41
MW - 7	08/04/09	3,569.75	-	23.01	0.00	3,546.74
MW - 7	11/09/09	3,569.75	-	23.13	0.00	3,546.62
MW - 7	01/05/10	3,569.75	-	23.22	0.00	3,546.53
MW - 7	02/04/10	3,569.75	-	23.22	0.00	3,546.53
MW - 7	08/09/10	3,569.75	-	23.12	0.00	3,546.63

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	11/01/10	3,569.75	-	22.31	0.00	3,547.44
MW - 7	02/10/11	3,569.75	-	22.31	0.00	3,547.44
MW - 7	05/04/11	3,569.75	-	23.13	0.00	3,546.62
MW - 7	08/03/11	3,569.75	-	22.31	0.00	3,547.44
MW - 7	11/11/11	3,569.75	-	23.28	0.00	3,546.47
MW - 7	02/13/12	3,569.75	-	23.30	0.00	3,546.45
MW - 7	05/25/12	3,569.75	-	23.29	0.00	3,546.46
MW - 7	08/06/12	3,569.75	-	23.34	0.00	3,546.41
MW - 7	11/08/12	3,569.75	-	23.23	0.00	3,546.52
MW - 7	02/05/13	3,569.75	-	23.29	0.00	3,546.46
MW - 7	05/28/13	3,569.75	-	23.35	0.00	3,546.40
MW - 7	08/13/13	3,569.75	-	23.05	0.00	3,546.70
MW - 7	11/20/13	3,569.75	-	23.10	0.00	3,546.65
MW - 7	02/04/14	3,569.75	-	23.20	0.00	3,546.55
MW - 7	05/07/14	3,569.75	-	23.25	0.00	3,546.50
MW - 7	07/28/14	3,569.75	-	23.45	0.00	3,546.30
MW - 7	08/26/14	3,569.75	-	23.50	0.00	3,546.25
MW - 7	10/29/14	3,569.75	-	20.04	0.00	3,549.71
MW - 7	11/11/14	3,569.75	-	20.38	0.00	3,549.37
MW - 7	01/26/15	3,569.75	-	21.97	0.00	3,547.78
MW - 7	02/19/15	3,569.75	-	22.20	0.00	3,547.55
MW - 7	03/11/15	3,569.75	-	22.40	0.00	3,547.35
MW - 7	04/08/15	3,569.75	-	22.62	0.00	3,547.13
MW - 7	05/18/15	3,569.75	-	22.63	0.00	3,547.12
MW - 7	06/15/15	3,569.75	-	22.33	0.00	3,547.42
MW - 7	07/03/15	3,569.75	-	22.53	0.00	3,547.22
MW - 7	08/11/15	3,569.75	-	22.80	0.00	3,546.95
MW - 7	09/04/15	3,569.75	-	22.88	0.00	3,546.87
MW - 7	10/09/15	3,569.75	-	22.92	0.00	3,546.83
MW - 7	11/04/15	3,569.75	-	22.96	0.00	3,546.79
MW - 7	12/09/15	3,569.75	-	23.00	0.00	3,546.75
MW - 7	01/07/16	3,569.75	-	23.05	0.00	3,546.70
MW - 7	02/02/16	3,569.75	-	23.06	0.00	3,546.69
MW - 7	03/07/16	3,569.75	-	23.07	0.00	3,546.68
MW - 7	04/05/16	3,569.75	-	23.10	0.00	3,546.65
MW - 7	05/03/16	3,569.75	-	23.12	0.00	3,546.63
MW - 7	06/27/16	3,569.75	-	23.17	0.00	3,546.58
MW - 7	07/26/16	3,569.75	-	23.21	0.00	3,546.54
MW - 7	08/02/16	3,569.75	-	23.09	0.00	3,546.66
MW - 7	09/20/16	3,569.75	-	21.92	0.00	3,547.83
MW - 7	10/03/16	3,569.75	-	21.36	0.00	3,548.39
MW - 8	10/07/05	3,573.59	-	20.75	0.00	3,552.84
MW - 8	12/02/05	3,573.59	-	20.90	0.00	3,552.69
MW - 8	03/08/06	3,573.59	-	20.95	0.00	3,552.64

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LF - 59
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	06/07/06	3,573.59	-	21.06	0.00	3,552.53
MW - 8	09/12/06	3,573.59	-	15.85	0.00	3,557.74
MW - 8	11/22/06	3,573.59	-	20.53	0.00	3,553.06
MW - 8	02/21/07	3,573.59	-	20.93	0.00	3,552.66
MW - 8	05/16/07	3,573.59	-	21.96	0.00	3,551.63
MW - 8	08/10/07	3,573.59	-	21.01	0.00	3,552.58
MW - 8	12/28/07	3,573.59	-	21.04	0.00	3,552.55
MW - 8	02/18/08	3,573.59	-	21.06	0.00	3,552.53
MW - 8	05/08/08	3,573.59	-	21.08	0.00	3,552.51
MW - 8	08/08/08	3,573.59	-	21.19	0.00	3,552.40
MW - 8	11/07/08	3,573.59	-	21.11	0.00	3,552.48
MW - 8	02/06/09	3,573.59	-	21.19	0.00	3,552.40
MW - 8	05/07/09	3,573.59	-	21.14	0.00	3,552.45
MW - 8	08/04/09	3,573.59	-	21.08	0.00	3,552.51
MW - 8	11/09/09	3,573.59	-	21.10	0.00	3,552.49
MW - 8	01/05/10	3,573.59	-	21.14	0.00	3,552.45
MW - 8	02/04/10	3,573.59	-	21.13	0.00	3,552.46
MW - 8	08/09/10	3,573.59	-	21.12	0.00	3,552.47
MW - 8	11/01/10	3,573.59	-	20.97	0.00	3,552.62
MW - 8	02/10/11	3,573.59	-	20.97	0.00	3,552.62
MW - 8	05/04/11	3,573.59	-	21.08	0.00	3,552.51
MW - 8	08/03/11	3,573.59	-	20.95	0.00	3,552.64
MW - 8	11/11/11	3,573.59	-	21.26	0.00	3,552.33
MW - 8	02/13/12	3,573.59	-	21.18	0.00	3,552.41
MW - 8	05/25/12	3,573.59	-	21.23	0.00	3,552.36
MW - 8	08/06/12	3,573.59	-	21.21	0.00	3,552.38
MW - 8	11/08/12	3,573.59	-	21.14	0.00	3,552.45
MW - 8	02/05/13	3,573.59	-	21.21	0.00	3,552.38
MW - 8	05/28/13	3,573.59	-	21.30	0.00	3,552.29
MW - 8	08/13/13	3,573.59	-	21.11	0.00	3,552.48
MW - 8	11/20/13	3,573.59	-	21.07	0.00	3,552.52
MW - 8	02/04/14	3,573.59	-	21.12	0.00	3,552.47
MW - 8	05/07/14	3,573.59	-	21.16	0.00	3,552.43
MW - 8	07/28/14	3,573.59	-	21.75	0.00	3,551.84
MW - 8	08/26/14	3,573.59	-	21.88	0.00	3,551.71
MW - 8	10/29/14	3,573.59	-	18.66	0.00	3,554.93
MW - 8	11/11/14	3,573.59	-	19.59	0.00	3,554.00
MW - 8	01/26/15	3,573.59	-	20.91	0.00	3,552.68
MW - 8	02/19/15	3,573.59	-	20.92	0.00	3,552.67
MW - 8	03/11/15	3,573.59	-	20.93	0.00	3,552.66
MW - 8	04/08/15	3,573.59	-	20.93	0.00	3,552.66
MW - 8	05/18/15	3,573.59	-	20.84	0.00	3,552.75
MW - 8	06/15/15	3,573.59	-	20.90	0.00	3,552.69
MW - 8	07/03/15	3,573.59	-	20.95	0.00	3,552.64
MW - 8	08/11/15	3,573.59	-	21.00	0.00	3,552.59

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	09/04/15	3,573.59	-	21.02	0.00	3,552.57
MW - 8	10/09/15	3,573.59	-	21.02	0.00	3,552.57
MW - 8	11/04/15	3,573.59	-	20.98	0.00	3,552.61
MW - 8	12/09/15	3,573.59	-	21.02	0.00	3,552.57
MW - 8	01/07/16	3,573.59	-	21.02	0.00	3,552.57
MW - 8	02/02/16	3,573.59	-	21.01	0.00	3,552.58
MW - 8	03/07/16	3,573.59	-	21.02	0.00	3,552.57
MW - 8	04/05/16	3,573.59	-	21.03	0.00	3,552.56
MW - 8	05/03/16	3,573.59	-	21.07	0.00	3,552.52
MW - 8	06/27/16	3,573.59	-	21.12	0.00	3,552.47
MW - 8	07/26/16	3,573.59	-	21.16	0.00	3,552.43
MW - 8	08/02/16	3,573.59	-	21.16	0.00	3,552.43
MW - 8	09/20/16	3,573.59	-	20.46	0.00	3,553.13
MW - 8	10/03/16	3,573.59	-	20.65	0.00	3,552.94

Note: "-" denotes no PSH measured during gauging.

Elevations based on the North American Vertical Datum of 1929.

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1	02/23/00	0.12	0.02	0.011	0.073	0.039
MW - 1	04/06/00	0.355	0.024	0.022	0.274	0.083
MW - 1	05/18/04	1.74	0.031	0.218	1.16	0.415
MW - 1	09/07/04	1.16	0.011	0.189	1.21	0.335
MW - 1	12/14/04	0.309	<0.005	0.116	0.572	
MW - 1	03/08/05	0.19	0.0198	0.173	0.556	
MW - 1	06/07/05	0.554	<0.200	<0.200	0.572	
MW - 1	09/07/05	0.639	<0.01	0.204	0.985	
MW - 1	12/02/05	0.299	<0.100	<0.100	<0.1	
MW - 1	03/08/06	0.247	<0.02	0.0436	0.154	
MW - 1	06/07/06	0.198	<0.005	0.0324	0.117	
MW - 1	09/12/06	0.303	<0.200	<0.200	0.498	
MW - 1	11/22/06	0.407	<0.00100	0.323	0.949	
MW - 1	02/21/07	0.283	<0.05000	0.14	0.348	
MW - 1	05/16/07	0.213	<0.02000	0.118	0.356	
MW - 1	08/10/07	0.0109	<0.00100	0.0038	0.0099	
MW - 1	12/28/07	0.139	<0.00500	0.0596	0.0882	
MW - 1	02/18/08	0.117	<0.00100	0.0303	0.0642	
MW - 1	05/12/08	0.102	<0.00100	0.0054	0.0079	
MW - 1	08/08/08	0.105	<0.00100	0.0310	0.0326	
MW - 1	11/07/08	0.0375	<0.00100	0.0060	0.0049	
MW - 1	02/06/09	0.0110	<0.00100	<0.00100	<0.00100	
MW - 1	05/07/09	0.0148	<0.00100	<0.00100	0.0070	
MW - 1	08/04/09	0.0197	<0.00100	<0.00100	<0.00100	
MW - 1	11/09/09	0.0060	<0.00100	<0.00100	<0.00100	
MW - 1	02/04/10	0.0311	<0.00100	<0.00100	<0.00100	
MW - 1	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 1	08/09/10	0.1170	<0.00100	0.0039	<0.00100	
MW - 1	11/01/10	0.0822	<0.00100	<0.00100	<0.00100	
MW - 1	02/10/11	0.0242	<0.00100	<0.00100	<0.00100	
MW - 1	05/04/11	0.0275	<0.00100	<0.00100	<0.00100	
MW - 1	08/03/11	0.0880	<0.00100	<0.00100	<0.00100	
MW - 1	11/11/11	0.0388	<0.00100	<0.00100	<0.00100	
MW - 1	02/13/12	0.0257	<0.00100	<0.00100	<0.00100	
MW - 1	05/25/12	0.0913	<0.00100	<0.00100	<0.00100	
MW - 1	08/06/12	0.1530	<0.00500	<0.00500	<0.00500	
MW - 1	11/08/12	0.0065	<0.00100	<0.00100	<0.00100	
MW - 1	02/05/13	0.0133	<0.00100	<0.00100	<0.00100	
MW - 1	05/28/13	0.0189	<0.00100	<0.00100	<0.00100	
MW - 1	08/13/13	0.0073	<0.00100	<0.00100	<0.00100	
MW - 1	11/20/13	0.00740	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1	02/04/14	Plugged and Abandoned				
MW - 1A	02/04/14	Installation				
MW - 1A	02/26/14	0.0110	<0.00100	0.00253	<0.00100	
MW - 1A	05/07/14	0.00580	<0.00100	0.00240	<0.00300	
MW - 1A	08/26/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	11/11/14	0.0277	<0.00100	0.00970	0.00130	
MW - 1A	02/19/15	0.00550	<0.00100	0.00240	0.00100	
MW - 1A	05/18/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	06/02/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	08/11/15	0.00140	<0.00100	<0.00100	<0.00100	
MW - 1A	11/04/15	0.00290	<0.00100	<0.00100	<0.00100	
MW - 1A	02/02/16	0.00340	<0.00100	<0.00100	<0.00100	
MW - 1A	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1A	10/03/16	0.0172	<0.00100	0.00620	<0.00100	
MW - 1A	11/02/16	0.0141	<0.00100	0.00560	0.00120	
MW - 2	02/23/00	0.196	0.004	<0.00100	0.037	0.003
MW - 2	04/06/00	0.278	0.005	0.002	0.086	<0.001
MW - 2	08/29/00	0.272	0.007	0.026	0.055	0.026
MW - 2	12/04/00	0.046	<0.00100	0.006	0.009	0.002
MW - 2	01/23/01	0.111	<0.00100	0.006	0.016	0.001
MW - 2	05/16/01	0.0937	<0.00100	<0.00100	0.0013	
MW - 2	08/06/01	0.096	<0.00100	0.025	0.013	0.002
MW - 2	10/29/01	0.049	<0.00100	0.024	0.003	0.001
MW - 2	03/29/02	0.025	0.004	0.023	0.101	0.036
MW - 2	05/20/02	0.025	<0.00100	0.037	0.048	0.03
MW - 2	09/10/02	0.042	<0.00100	0.019	0.018	0.007
MW - 2	11/14/02	0.032	<0.00100	0.018	0.032	0.013
MW - 2	12/03/03	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 2	03/03/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 2	05/18/04	0.00726	<0.00100	0.00802	0.0169	0.00673
MW - 2	09/07/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 2	12/14/04	0.0039	<0.00100	0.0139	0.0149	
MW - 2	03/08/05	Not sampled due to well obstruction				
MW - 2	06/07/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	09/07/05	0.0022	<0.001	0.0238	0.0361	
MW - 2	12/02/05	0.0017	<0.001	0.0024	0.0025	
MW - 2	03/08/06	0.0058	<0.001	0.0054	0.0112	
MW - 2	06/07/06	<0.00500	<0.00500	<0.00500	<0.00500	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 2	09/12/06	0.0092	<0.001	0.105	0.184	
MW - 2	11/22/06	0.0044	<0.001	0.0313	0.0384	
MW - 2	02/21/07	0.002	<0.001	0.005	0.0109	
MW - 2	05/16/07	<0.00100	<0.00100	0.0086	0.0122	
MW - 2	08/10/07	0.004	<0.001	0.0076	0.0201	
MW - 2	12/28/07	0.0019	<0.001	0.0057	0.0074	
MW - 2	02/18/08	0.0014	<0.001	0.0017	0.0033	
MW - 2	05/12/08	<0.00100	<0.00100	<0.00100	0.0015	
MW - 2	08/08/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/07/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/06/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/07/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/04/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/04/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/01/10	Not Sampled				
MW - 2	08/09/10	0.0013	0.0013	0.001	0.0027	
MW - 2	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/10/11	0.007	0.007	<0.001	0.0197	
MW - 2	05/04/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/03/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/13/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/25/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/06/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/08/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/05/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/28/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/04/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 2	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 2	08/26/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/19/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/18/15	0.243	<0.0500	<0.0500	<0.0500	
MW - 2	06/02/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/11/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/04/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 2	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/23/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	04/06/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	08/29/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	12/04/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	01/23/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	05/16/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	08/06/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	10/29/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	03/29/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	05/20/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	09/10/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	11/14/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	12/03/03	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 3	03/03/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 3	12/14/04	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	03/08/05	Not Sampled on Current Sample Schedule				
MW - 3	06/07/05	Not Sampled on Current Sample Schedule				
MW - 3	09/07/05	Not Sampled on Current Sample Schedule				
MW - 3	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	03/08/06	Not Sampled on Current Sample Schedule				
MW - 3	06/07/06	Not Sampled on Current Sample Schedule				
MW - 3	09/12/06	Not Sampled on Current Sample Schedule				
MW - 3	11/22/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/21/07	Not Sampled on Current Sample Schedule				
MW - 3	05/16/07	Not Sampled on Current Sample Schedule				
MW - 3	08/10/07	Not Sampled on Current Sample Schedule				
MW - 3	12/28/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/18/08	Not Sampled on Current Sample Schedule				
MW - 3	05/12/08	Not Sampled on Current Sample Schedule				
MW - 3	08/08/08	Not Sampled on Current Sample Schedule				
MW - 3	11/07/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/06/09	Not Sampled on Current Sample Schedule				
MW - 3	05/07/09	Not Sampled on Current Sample Schedule				
MW - 3	08/04/09	Not Sampled on Current Sample Schedule				
MW - 3	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/04/10	Not Sampled on Current Sample Schedule				
MW - 3	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 3	08/09/10	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 3	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/10/11	Not Sampled on Current Sample Schedule				
MW - 3	05/04/11	Not Sampled on Current Sample Schedule				
MW - 3	08/03/11	Not Sampled on Current Sample Schedule				
MW - 3	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/13/12	Not Sampled on Current Sample Schedule				
MW - 3	05/25/12	Not Sampled on Current Sample Schedule				
MW - 3	08/06/12	Not Sampled on Current Sample Schedule				
MW - 3	11/08/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/05/13	Not Sampled on Current Sample Schedule				
MW - 3	05/28/13	Not Sampled on Current Sample Schedule				
MW - 3	08/13/13	Not Sampled on Current Sample Schedule				
MW - 3	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/04/14	Not Sampled on Current Sample Schedule				
MW - 3	05/07/14	Not Sampled on Current Sample Schedule				
MW - 3	08/26/14	Not Sampled on Current Sample Schedule				
MW - 3	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/19/15	Not Sampled on Current Sample Schedule				
MW - 3	05/18/15	Not Sampled on Current Sample Schedule				
MW - 3	08/11/15	Not Sampled on Current Sample Schedule				
MW - 3	11/04/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/02/16	Not Sampled on Current Sample Schedule				
MW - 3	05/03/16	Not Sampled on Current Sample Schedule				
MW - 3	08/02/16	Not Sampled on Current Sample Schedule				
MW - 3	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/18/04	<0.00100	<0.00100	0.00157	0.00684	<0.00100
MW - 4	09/07/04	<0.00100	<0.00100	0.00225	<0.00200	<0.00100
MW - 4	12/14/04	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 4	03/08/05	0.0189	0.0165	<0.01	0.0379	
MW - 4	06/07/05	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 4	09/07/05	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 4	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	03/08/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	06/07/06	Not sampled				
MW - 4	09/12/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/22/06	0.0018	<0.001	<0.001	0.0021	
MW - 4	02/21/07	<0.00100	<0.00100	<0.00100	0.0049	
MW - 4	05/16/07	<0.00100	<0.00100	<0.00100	0.0019	
MW - 4	08/10/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	12/28/07	<0.00100	<0.00100	<0.00100	0.0015	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 4	02/18/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/12/08	0.0016	<0.001	<0.001	<0.001	
MW - 4	08/08/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/07/08	0.0088	0.0213	0.0052	0.0256	
MW - 4	02/06/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/07/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/04/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/04/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 4	08/09/10	<0.00100	<0.00100	<0.00100	0.002	
MW - 4	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/10/11	<0.00100	<0.00100	<0.00100	0.0195	
MW - 4	05/04/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/03/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/13/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/25/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/06/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/08/12	<0.00500	<0.00500	<0.00500	<0.005	
MW - 4	02/05/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/28/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/04/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 4	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 4	08/26/14	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 4	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/19/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/18/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/11/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	11/04/15	0.00640	<0.00100	<0.00100	<0.00100	
MW - 4	02/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	08/02/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/23/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	04/06/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	08/29/00	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	12/04/00	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 5	01/23/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	05/16/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	08/06/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	10/29/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	03/29/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	05/20/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	09/10/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	11/14/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	12/03/03	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 5	03/03/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 5	12/14/04	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	03/08/05	Not Sampled on Current Sample Schedule				
MW - 5	06/07/05	Not Sampled on Current Sample Schedule				
MW - 5	09/07/05	Not Sampled on Current Sample Schedule				
MW - 5	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	03/08/06	Not Sampled on Current Sample Schedule				
MW - 5	06/07/06	Not Sampled on Current Sample Schedule				
MW - 5	09/12/06	Not Sampled on Current Sample Schedule				
MW - 5	11/22/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/21/07	Not Sampled on Current Sample Schedule				
MW - 5	05/16/07	Not Sampled on Current Sample Schedule				
MW - 5	08/10/07	Not Sampled on Current Sample Schedule				
MW - 5	12/28/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/18/08	Not Sampled on Current Sample Schedule				
MW - 5	05/12/08	Not Sampled on Current Sample Schedule				
MW - 5	08/08/08	Not Sampled on Current Sample Schedule				
MW - 5	11/07/08	<0.00100	<0.00100	0.0012	0.0038	
MW - 5	02/06/09	Not Sampled on Current Sample Schedule				
MW - 5	05/07/09	Not Sampled on Current Sample Schedule				
MW - 5	08/04/09	Not Sampled on Current Sample Schedule				
MW - 5	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/04/10	Not Sampled on Current Sample Schedule				
MW - 5	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 5	08/09/10	Not Sampled on Current Sample Schedule				
MW - 5	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/10/11	Not Sampled on Current Sample Schedule				
MW - 5	05/04/11	Not Sampled on Current Sample Schedule				
MW - 5	08/03/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/13/12	Not Sampled on Current Sample Schedule				
MW - 5	05/25/12	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 5	08/06/12	Not Sampled on Current Sample Schedule				
MW - 5	11/08/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/05/13	Not Sampled on Current Sample Schedule				
MW - 5	05/28/13	Not Sampled on Current Sample Schedule				
MW - 5	08/13/13	Not Sampled on Current Sample Schedule				
MW - 5	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/04/14	Not Sampled on Current Sample Schedule				
MW - 5	05/07/14	Not Sampled on Current Sample Schedule				
MW - 5	08/26/14	Not Sampled on Current Sample Schedule				
MW - 5	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/19/15	Not Sampled on Current Sample Schedule				
MW - 5	05/18/15	Not Sampled on Current Sample Schedule				
MW - 5	08/11/15	Not Sampled on Current Sample Schedule				
MW - 5	11/04/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/02/16	Not Sampled on Current Sample Schedule				
MW - 5	05/03/16	Not Sampled on Current Sample Schedule				
MW - 5	08/02/16	Not Sampled on Current Sample Schedule				
MW - 5	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	09/27/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	10/29/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	03/29/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	05/20/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	09/10/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/14/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	12/03/03	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 6	03/03/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 6	12/14/04	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	03/08/05	Not Sampled on Current Sample Schedule				
MW - 6	06/07/05	Not Sampled on Current Sample Schedule				
MW - 6	09/07/05	Not Sampled on Current Sample Schedule				
MW - 6	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	03/08/06	Not Sampled on Current Sample Schedule				
MW - 6	06/07/06	Not Sampled on Current Sample Schedule				
MW - 6	09/12/06	Not Sampled on Current Sample Schedule				
MW - 6	11/22/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/21/07	Not Sampled on Current Sample Schedule				
MW - 6	05/16/07	Not Sampled on Current Sample Schedule				
MW - 6	08/10/07	Not Sampled on Current Sample Schedule				
MW - 6	12/28/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/18/08	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o -XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 6	05/12/08	Not Sampled on Current Sample Schedule				
MW - 6	08/08/08	Not Sampled on Current Sample Schedule				
MW - 6	11/07/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/06/09	Not Sampled on Current Sample Schedule				
MW - 6	05/07/09	Not Sampled on Current Sample Schedule				
MW - 6	08/04/09	Not Sampled on Current Sample Schedule				
MW - 6	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/04/10	Not Sampled on Current Sample Schedule				
MW - 6	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 6	08/09/10	Not Sampled on Current Sample Schedule				
MW - 6	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/10/11	Not Sampled on Current Sample Schedule				
MW - 6	03/21/11	Well Plugged and Abandoned				
MW - 7	09/27/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	10/29/01	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	03/29/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	05/20/02	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	09/10/02	0.008	0.006	0.003	0.017	0.007
MW - 7	11/14/02	0.009	0.009	0.005	0.029	0.012
MW - 7	12/03/03	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100
MW - 7	03/03/04	0.00146	<0.001	<0.001	0.00369	<0.001
MW - 7	12/14/04	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	03/08/05	Not Sampled on Current Sample Schedule				
MW - 7	06/07/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	09/07/05	Not Sampled on Current Sample Schedule				
MW - 7	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	03/08/06	Not Sampled on Current Sample Schedule				
MW - 7	06/07/06	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 7	09/12/06	Not Sampled on Current Sample Schedule				
MW - 7	11/22/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/21/07	Not Sampled on Current Sample Schedule				
MW - 7	05/16/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/10/07	Not Sampled on Current Sample Schedule				
MW - 7	12/28/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/18/08	Not Sampled on Current Sample Schedule				
MW - 7	05/12/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/08/08	Not Sampled on Current Sample Schedule				
MW - 7	11/07/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/06/09	Not Sampled on Current Sample Schedule				
MW - 7	05/07/09	<0.00100	<0.00100	0.0062	0.0088	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 7	08/04/09	Not Sampled on Current Sample Schedule				
MW - 7	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/04/10	Not Sampled on Current Sample Schedule				
MW - 7	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 7	08/09/10	Not Sampled on Current Sample Schedule				
MW - 7	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/10/11	Not Sampled on Current Sample Schedule				
MW - 7	05/04/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/03/11	Not Sampled on Current Sample Schedule				
MW - 7	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/13/12	Not Sampled on Current Sample Schedule				
MW - 7	05/25/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/06/12	Not Sampled on Current Sample Schedule				
MW - 7	11/08/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/05/13	Not Sampled on Current Sample Schedule				
MW - 7	05/28/13	Not Sampled on Current Sample Schedule				
MW - 7	08/13/13	Not Sampled on Current Sample Schedule				
MW - 7	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/04/14	Not Sampled on Current Sample Schedule				
MW - 7	05/07/14	Not Sampled on Current Sample Schedule				
MW - 7	08/26/14	Not Sampled on Current Sample Schedule				
MW - 7	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/19/15	Not Sampled on Current Sample Schedule				
MW - 7	05/18/15	Not Sampled on Current Sample Schedule				
MW - 7	08/11/15	Not Sampled on Current Sample Schedule				
MW - 7	11/04/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/02/16	Not Sampled on Current Sample Schedule				
MW - 7	05/03/16	Not Sampled on Current Sample Schedule				
MW - 7	08/02/16	Not Sampled on Current Sample Schedule				
MW - 7	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	10/10/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	12/02/05	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	03/08/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	06/07/06	<0.00500	<0.00500	<0.00500	<0.00500	
MW - 8	09/12/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/22/06	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/21/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/16/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/10/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	12/28/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

LF - 59

LEA COUNTY, NEW MEXICO

NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 8	02/18/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/12/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/08/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/07/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/06/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/07/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/04/09	<0.00100	0.0048	<0.00100	0.0152	
MW - 8	11/09/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/04/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/01/10	Not Sampled during 2nd Quarter 2010				
MW - 8	08/09/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/01/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/10/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/04/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/03/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/11/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/13/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/25/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/06/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/08/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/05/13	Not Sampled on Current Sample Schedule				
MW - 8	05/28/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/13/13	Not Sampled on Current Sample Schedule				
MW - 8	11/20/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/04/14	Not Sampled on Current Sample Schedule				
MW - 8	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	08/26/14	Not Sampled on Current Sample Schedule				
MW - 8	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/19/15	Not Sampled on Current Sample Schedule				
MW - 8	05/18/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/11/15	Not Sampled on Current Sample Schedule				
MW - 8	11/04/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/02/16	Not Sampled on Current Sample Schedule				
MW - 8	05/03/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/02/16	Not Sampled on Current Sample Schedule				
MW - 8	10/03/16	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM LF-59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

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[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	11/07/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.0006	<0.000183	0.000691	<0.000183	0.00214	0.00479	0.00232	<0.000183
	11/09/09	<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
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	02/04/14	Plugged and Abandoned																		
MW-1A	02/26/14	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<0.00492	<5.00	<0.00492	<0.00492	<0.00492
	11/04/15	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	10/03/16	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-2	11/07/08	<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
	11/09/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/07/08	<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
	11/09/09	<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
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/07/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.00207	<0.000185	0.00103	<0.000185	0.000684	0.00413	0.000546	0.00128

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM LF-59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

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	Dibenzo[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		---	
	11/09/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00078	<0.000184	<0.000184	0.00173	<0.000184	<0.000184	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	<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	
	11/08/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/07/08	<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	
	11/09/09	<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.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/09/09	<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	
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/09/09	<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.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/08/12	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM LF-59

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER 1R-0103

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		---
	11/20/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
	11/04/15	Not Sampled as part of Quarterly Monitoring Event.																		
	10/03/16	Not Sampled as part of Quarterly Monitoring Event.																		

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

811 South Main
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

STATE Bynd LF. 1999-59

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 EOTT Energy Pipeline	Contact Lennah Frost
Address PO Box 1660	Telephone No. 915/6843467
Facility Name	Facility Type Pipeline

Surface Owner State of New Mexico	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Loc. Letter L	Section 32	Township 19S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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NATURE OF RELEASE

Type of Release Crude oil	Volume of Release 260 bbl/s	Volume Recovered 200 bbl/s
Source of Release Crude oil Pipeline	Date and Hour of Occurrence 7/18/99 1pm	Date and Hour of Discovery 7/18/99 1pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Chris Williams	
By Whom? Lennah Frost	Date and Time 7/18/99 - 2:30p	
Was a Windrose Reached? ☐ Yes ☒ No	If Yes, Volume Impacting the Windrose.	

If a Windrose was Impacted, Describe Fully (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)

Internal Corrosion - Leak Clamped off will replace pipe ASAP

Describe Area Affected and Cleanup Action Taken (Attach Additional Sheets If Necessary)

Spill occurred in a previously remediated site. Will evaluate for cleanup this week

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCED 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 NMOCED marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCED 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: Lennah Frost	OIL CONSERVATION DIVISION		
Printed Name: Lennah Frost	Approved by District Supervisor:		
Title: SR. ENV. ENG	Approval Date:	Expiration Date:	
Date: 7-20-99	Phone: 915/6843467	Conditions of Approval:	Attached ☐