

2016 Annual Groundwater Monitoring Report

DCP Plant to Lea Station 6-Inch #2
Plains SRS Number: 2009-039
Lea County, New Mexico

March 30, 2017
Terracon Project No. AR167321
NMOCD Reference No. 1R-2136



Prepared for:
Plains Marketing, LP
Midland, Texas

Prepared by:
Terracon Consultants, Inc.
Lubbock, Texas

terracon.com

Terracon

Environmental ■ Facilities ■ Geotechnical ■ Materials



March 30, 2017

Plains Marketing, L.P.
577 US Highway 385 North
Seminole, Texas 79360
Attn: Ms. Camille Bryant

Telephone: (575) 441-1099

Re: 2016 Annual Groundwater Monitoring Report
DCP Plant to Lea Station 6-Inch #2
U/L "F", Sec. 31, T20S, R37E
Lea County, New Mexico
NMOCD Reference No. 1R – 2136
Plains Marketing, L.P. SRS NO. 2009-039
Terracon Project No. AR167321

Dear Ms. Bryant:

Terracon is pleased to submit four copies of the 2016 Annual Groundwater Monitoring Report for the above-referenced site.

We appreciate the opportunity to perform these services for Plains Marketing, L.P. (Plains). Please contact either of the undersigned at (806) 300-0140 if you have questions regarding the information provided in the report.

Sincerely,

Terracon

Prepared by:

Joel Lowry
Project Geologist
Lubbock

Reviewed by:

Erin Loyd, P.G.
Senior Associate
Office Manager – Lubbock



TABLE OF CONTENTS

	Page No.
1.0 INTRODUCTION	1
2.0 FIELD ACTIVITIES	4
3.0 LABORATORY ANALYTICAL METHODS.....	5
4.0 DATA EVALUATION	6
5.0 SUMMARY	7
6.0 ANTICIPATED ACTIONS	8
7.0 DISTRIBUTION	9

LIST OF APPENDICES

Appendix A:	Figure 1 – Site Location Map Figure 2a – Groundwater Gradient Map (1Q2016) Figure 2b – Groundwater Gradient Map (2Q2016) Figure 2c – Groundwater Gradient Map (3Q2016) Figure 2d – Groundwater Gradient Map (4Q2016) Figure 3a – Groundwater Concentration Map (1Q2016) Figure 3b – Groundwater Concentration Map (2Q2016) Figure 3c – Groundwater Concentration Map (3Q2016) Figure 3d – Groundwater Concentration Map (4Q2016)
Appendix B:	Table 1 – Groundwater Elevation and PSH Thickness Data Table 2 – Groundwater Analytical Summary - BTEX
Appendix C:	Laboratory Data Sheets
Appendix D:	Table 3 – Historical Quarterly Groundwater Elevation and PSH Thickness Data Table 4 – Historical Groundwater Analytical Summary - BTEX Table 5 – Historical Groundwater Analytical Summary - PAHs
Appendix E:	Release Notification and Corrective Action (NMOCD Form C-141)
Appendix F:	CD of the 2016 Annual Groundwater Monitoring Report

2016 ANNUAL GROUNDWATER MONITORING REPORT

DCP Plant to Lea Station 6-Inch #2

Plains SRS No: 2009-039

Unit Letter "F", Section 31, Township 20 South, Range 37 East

Lea County, New Mexico

NMOCD Reference No. 1R – 2136

Terracon Project No. AR167321

1.0 INTRODUCTION

1.1 Site Description

The legal description of the DCP Plant to Lea Station 6-Inch #2 release site is Unit Letter "F" (SE/NW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by The State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the release site are 32.5316667° North latitude and 103.2911111° West longitude. A "Site Location Map" is provided as Figure 1 in Appendix A.

Site Name	DCP Plant to Lea Station 6-Inch #2
Site Location	Latitude 32.5316667° North, Longitude 103.291111° West
General Site Description	The site consists of seven groundwater monitoring wells located in, and adjacent to, a pipeline right-of-way surrounded by native pasture land.
Landowner	State of New Mexico

1.2 Background Information

Based on information provided by the client, on February 12, 2009, Plains discovered a crude oil release from a six-inch steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. Approximately 25 barrels (bbls) of crude oil was released from the pipeline, resulting in a surface stain measuring approximately 10 feet (ft.) in width and 12 ft. in length. Plains notified the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office of the release, and a "Release Notification and Corrective Action" (Form C-141) was submitted. The cause of the release was attributed to external corrosion of the pipeline.

On February 17, 2009, following initial response activities, excavation of hydrocarbon-impacted soil began at the site. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. Approximately 2,700 cubic yards (cy) of

soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately 66 ft. in width, approximately 80 ft. in length, and approximately 15 ft. in depth. Upon completion of the excavation activities, confirmation soil samples were collected from the excavation and stockpiles. Review of laboratory analytical results indicated soil samples collected from the excavation and stockpiles were less than NMOCD regulatory standards.

On April 15, 2009, soil boring SB-1 was advanced at the release site to evaluate the vertical extent of soil impact. During the advancement of the soil boring, groundwater was encountered at approximately 61 ft. drilling depth, or approximately 76 ft. below ground surface (bgs). A temporary casing was installed in the soil boring to allow a groundwater sample to be collected for analysis. During the collection of the groundwater sample, a measurable thickness of phase separated hydrocarbon (PSH) was observed on the groundwater. Plains immediately notified NMOCD representatives in the Hobbs District Office and the NMOCD Environmental Bureau (Santa Fe) of the impact to groundwater at the release site. On April 16, 2009, soil boring SB-1 was converted to 4-inch monitor well (MW-1).

On June 29, 2009, two additional monitoring wells (MW-2, MW-3, and MW-4) were installed to evaluate the status of the groundwater at the site. Monitor well MW-2 is located approximately 135 ft. to the northwest (up-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-3 is located approximately 80 ft. to the southwest (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-4 is located approximately 115 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 88 ft. bgs. PSH was not observed in monitor wells MW-2, MW-3, or MW-4.

On August 25, 2009, a 20-millimeter polyurethane liner was installed in the excavation. Monitor well MW-1, located within the excavation, was extended to the top of the excavation using a 4-inch diameter PVC riser. The riser was fitted with a 40-millimeter boot, which was chemically welded to the 20-millimeter liner to ensure impermeability of the liner. The liner was cushioned by a 6-inch layer of sand above and below the liner to protect the liner from damage during backfilling activities. The excavation was backfilled with the stockpiled soil and compacted in 12-inch lifts. The disturbed areas were contoured to fit the surrounding topography and seeded with a New Mexico State Land Office (NMSLO)-approved seeding mixture. Supplemental seeding occurred on October 12, 2010.

On January 24, 2011, an additional monitoring well (MW-5) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-5 is located approximately 50 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. PSH was not observed in monitor well MW-5. Laboratory analytical results of soil samples collected during the installation of monitor well MW-5 indicated benzene, toluene, ethylbenzene, total xylene (BTEX), and total petroleum hydrocarbon

concentrations were less than NMOCD regulatory standards in all submitted soil samples.

On September 10, 2013, two additional monitoring wells (MW-6 and MW-7) were installed to further monitor the down-gradient migration of the dissolved-phase plume and to delineate the horizontal extent of PSH. Monitor well MW-6 is located approximately 125 ft. to the east-southeast (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. Monitor well MW-7 is located approximately 175 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 100 ft. bgs. Laboratory analytical results from soil samples collected during the installation of monitor wells MW-6 and MW-7 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples. PSH was not observed in MW-6 or MW-7.

On October 18, 2016, Terracon assumed oversight of groundwater monitoring activities at the DCP Plant to Lea Station 6-Inch #2 release site. There are a total of seven monitor wells located at the site. Monitor wells MW-2 through MW-7 are gauged and sampled on a quarterly schedule; monitor well MW-1 is not sampled due to the presence of PSH.

1.3 Scope of Work

Terracon's scope of work includes oversight of groundwater monitoring activities and preparation of an *Annual Groundwater Monitoring Report* in accordance with the NMOCD letter, dated May 1998, requiring submittal of an *Annual Groundwater Monitoring Report* by April 1st of each year. Groundwater monitoring activities include conducting quarterly groundwater monitoring events at the site. Quarterly groundwater monitoring events include measuring the static water levels in the monitor wells, checking for the presence of PSH, and the collection of groundwater samples from each of the on-site monitor wells not exhibiting a measurable thickness of PSH. In accordance with the approved scope of work, Terracon conducted quarterly groundwater monitoring events on November 11 and December 22, 2016. Quarterly groundwater monitoring events conducted on February 10 and May 3, 2016, were conducted by an alternative environmental contractor hired by Plains.

1.4 Standard of Care

Activities conducted prior to Terracon assuming oversight of the project (beginning on October 18, 2016) were performed by previous consultants hired by Plains. As such, Terracon makes no assumptions or warranties regarding the previous consultants services being performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other

third parties supplying information used in the preparation of the report.

1.5 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this remediation activities. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use of Plains Marketing, L. P., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Plains Marketing, L.P. and Terracon. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in this report, and Terracon's Terms and Conditions. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 FIELD ACTIVITIES

2.1 Product Recovery

An estimated 1,255.5 gallons (30 bbls) of PSH was recovered from MW-1, by manual recovery, in 2016. During the last recovery event conducted during the 2016 reporting period, the PSH thickness in MW-1 measured 0.70 feet. An estimated 5,975 gallons (142 bbls) of PSH has been manually recovered from MW-1 since recovery operations began in April 2009.

On July 18, 2012, a Mobile Dual-Phase Extraction (MDPE) unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit is shared with the nearby release site known as DCP Plant to Lea Station 6-Inch Sec. 31 (NMOCD Reference #1RP-2166), and the location of the unit is alternated periodically. During the 2016 reporting period, an estimated 1,425 gallons (34 bbls) of PSH in the vapor phase and an estimated 611 gallons (14.5 bbls) of PSH in the liquid phase were

recovered by the MDPE unit, for a total of an estimated 2,036 equivalent gallons (48.5 bbls) of PSH. To date, an estimated 7,616 equivalent gallons (181 bbls) of PSH has been recovered from monitor well MW-1 by MDPE. Recovered fluids are disposed of at an NMOCD-approved disposal facility.

2.2 Groundwater Recovery

An estimated 1,453 gallons (34.6 bbls) of hydrocarbon impacted groundwater have been recovered from monitor well MW-5, by manual recovery, since recovery operations began on January 22, 2016. Recovered fluids are disposed of at an NMOCD-approved disposal facility.

2.3 Groundwater Monitoring

Quarterly groundwater monitoring events were conducted on February 10 (1Q2016), May 3 (2Q2016), November 1 (3Q2016) and December 22, 2016 (4Q2016). Quarterly groundwater monitoring events included measuring the static water level in the on-site monitor wells, checking for the presence of PSH, and the collection of groundwater samples from each of the on-site monitor wells not exhibiting a measurable thickness of PSH. Prior to sample collection, the monitor wells were purged a minimum of three (3) well volumes utilizing disposable Teflon bailers then allowed to recharge. Upon allowing the wells to recharge, groundwater samples were collected utilizing a clean, disposable Teflon bailer and placed in laboratory-supplied containers appropriate to the analyses requested and placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were delivered to Xenco Laboratories in Midland, Texas for analysis of BTEX using EPA SW-846 Method 8021B. Purged water was placed into a polystyrene above ground storage tank and disposed of at an NMOCD-approved disposal facility.

Based on sampling criteria provided by the NMOCD, groundwater samples collected from the on-site monitor wells were not subject to analysis of polynuclear aromatic hydrocarbons (PAHs).

Groundwater elevation gauging data collected during the respective quarterly sampling events were used to construct groundwater gradient maps, which are included as Figures 2a through 2d in Appendix A. Groundwater flow direction ranged from 0.002 foot per foot (ft/ft) toward the southeast to 0.0007 ft/ft toward the northwest. Groundwater elevation and PSH thickness data is summarized in Table 1 in Appendix B.

3.0 LABORATORY ANALYTICAL METHODS

The groundwater samples collected from the on-site monitor wells were analyzed for BTEX using EPA SW-846 Method 8021B. Laboratory results from the analysis of groundwater samples collected from the monitor wells are summarized in Table 2 in Appendix B and presented on Figures 3a through 3d in Appendix A. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix C.

4.0 DATA EVALUATION

4.1 Groundwater Samples

Laboratory analytical results from groundwater samples collected on February 10 (1Q2016), May 3 (2Q2016), November 1 (3Q2016) and December 22, 2016 (4Q2016) were compared to NMOCD regulatory standards based on New Mexico Water Quality Control Commission (WQCC) groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

Monitor Well MW-1

- ☞ Monitor Well MW-1 was not sampled during the 2016 reporting period due to the presence of PSH.

Monitor Well MW-2

- ☞ Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory sample detection limit during each quarter of the 2016 reporting period.

Monitor Well MW-3

- ☞ Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory sample detection limit during each quarter of the 2016 reporting period.

Monitor Well MW-4

- ☞ Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory sample detection limit during each quarter of the 2016 reporting period.

Monitor Well MW-5

- ☞ Laboratory analytical results indicated benzene concentrations exceeded the NMOCD regulatory standard during each quarter of 2016. The detected benzene concentrations ranged from 2.42 milligrams per liter (mg/L) during the 2nd Quarter of 2016 to 8.04 mg/L during the 1st Quarter of 2016.
- ☞ Laboratory analytical results indicated toluene concentrations exceeded the NMOCD regulatory standard during the 1st, 3rd and 4th Quarters of 2016. The detected toluene concentrations ranged from 0.631 mg/L during the 2nd Quarter of 2016 to 2.09 mg/L during the 3rd Quarter of 2016.

- ⌘ Laboratory analytical results indicated ethylbenzene concentrations were below the NMOCD regulatory standard during each quarter of 2016. The detected ethylbenzene concentrations ranged from 0.102 mg/L during the 2nd Quarter of 2016 to 0.393 mg/L during the 3rd Quarter of 2016.
- ⌘ Laboratory analytical results indicated total xylene concentrations exceeded the NMOCD regulatory standard during the 3rd Quarter of 2016. The detected total xylene concentrations ranged from 0.183 mg/L during the 2nd Quarter of 2016 to 0.817 mg/L during the 3rd Quarter of 2016.

Monitor Well MW-6

- ⌘ Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory sample detection limit during each quarter of the 2016 reporting period.

Monitor Well MW-7

- ⌘ Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory sample detection limit during each quarter of the 2016 reporting period.

5.0 SUMMARY

- ⌘ Currently, there are seven groundwater monitor wells (MW-1 through MW-7) located at the site.
- ⌘ Monitor well MW-1 was not sampled during the 2016 reporting period due to the presence of PSH.
- ⌘ Monitor wells MW-2 through MW-7 were sampled during each quarter of 2016.
- ⌘ Benzene, toluene, ethylbenzene and total xylene concentrations were not detected at concentrations above applicable laboratory SDLs in groundwater samples collected from each of the monitor wells with the exception of monitor well MW-5.
- ⌘ The detected benzene, toluene and/or total xylene concentrations in monitor well MW-5 exceeded the NMOCD regulatory standards during one or more quarters of the 2016 reporting period.
- ⌘ The PSH thickness in monitor well MW-1 was 0.70 ft during the last recovery event conducted in 2016.
- ⌘ An estimated 1,255 gallons (30 bbls) of PSH were recovered manually from monitor well MW-1 during the 2016 reporting period.
- ⌘ An estimated 8,721 (207 bbls) of PSH were recovered in the vapor phase and an estimated 611 gallons (14.5 bbls) of PSH in the liquid phase from monitor well MW-1 during the 2016 reporting period.
- ⌘ An estimated 1,453 gallons (34.6 bbls) of hydrocarbon impacted groundwater were recovered manually from monitor well MW-5 during the 2016 reporting period.

- ⌘ Groundwater flow direction ranged from 0.002 foot per foot (ft/ft) toward the southeast to 0.0007 ft/ft toward the northwest.

6.0 ANTICIPATED ACTIONS

- ⌘ PSH recovery by MDPE will continue on monitor well MW-1 on an alternating quarterly basis during the 2017 reporting period.
- ⌘ Weekly manual PSH recovery will continue on monitor well MW-1, when the MDPE is off-site.
- ⌘ In an effort to control the down-gradient migration of the dissolved-phase plume, weekly recovery will continue from monitor well MW-5.
- ⌘ Monitor wells MW-2 through MW-7 will be monitored and sampled quarterly for the presence of BTEX in 2017.
- ⌘ An *Annual Groundwater Monitoring Report* will be prepared detailing field activities and the results of groundwater monitoring activities conducted during the 2017 reporting period.

Plains Marketing, L.P.

DCP Plant to Lea Station 6-Inch #2 ■ Lea County, New Mexico
February 9, 2017 ■ Terracon Project Number AR167321



7.0 DISTRIBUTION

Copy 1: Dr. Tomas Oberding, Hydrologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Copy 2: Ms. Olivia Yu
New Mexico Oil Conservation Division
District 1
1625 N. French Drive
Hobbs, New Mexico 88240

Copy 3: Ms. Camille Bryant
Plains Marketing, L.P.
577 US Highway 385 North
Seminole, Texas 79360
cjbryant@paalp.com

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Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 5: Mr. Joel Lowry
Terracon Consultants
5827 50th Street, Suite 1
Lubbock, Texas 79424
joel.lowry@terracon.com

APPENDIX A

Figure 1– Site Location Map

Figure 2a – Groundwater Gradient Map (1Q2016)

Figure 2b – Groundwater Gradient Map (2Q2016)

Figure 2c – Groundwater Gradient Map (3Q2016)

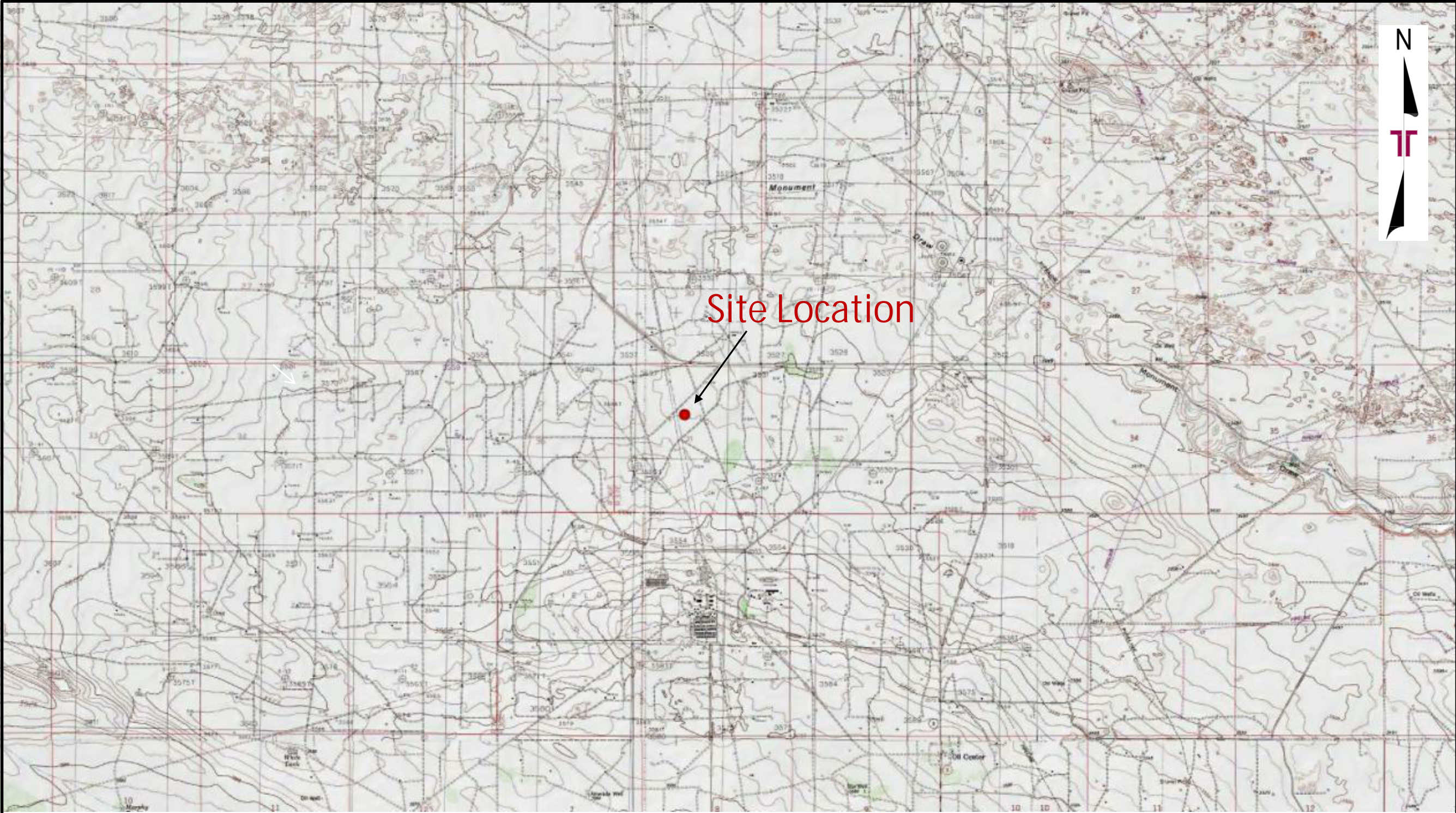
Figure 2d – Groundwater Gradient Map (4Q2016)

Figure 3a – Groundwater Concentration Map (1Q2016)

Figure 3b – Groundwater Concentration Map (2Q2016)

Figure 3c – Groundwater Concentration Map (3Q2016)

Figure 3d – Groundwater Concentration Map (4Q2016)



Project No.	AR167321
Scale:	1" = 1 Mile
Source:	Google Earth
Date:	2014

Terracon
Consulting Engineers & Scientists

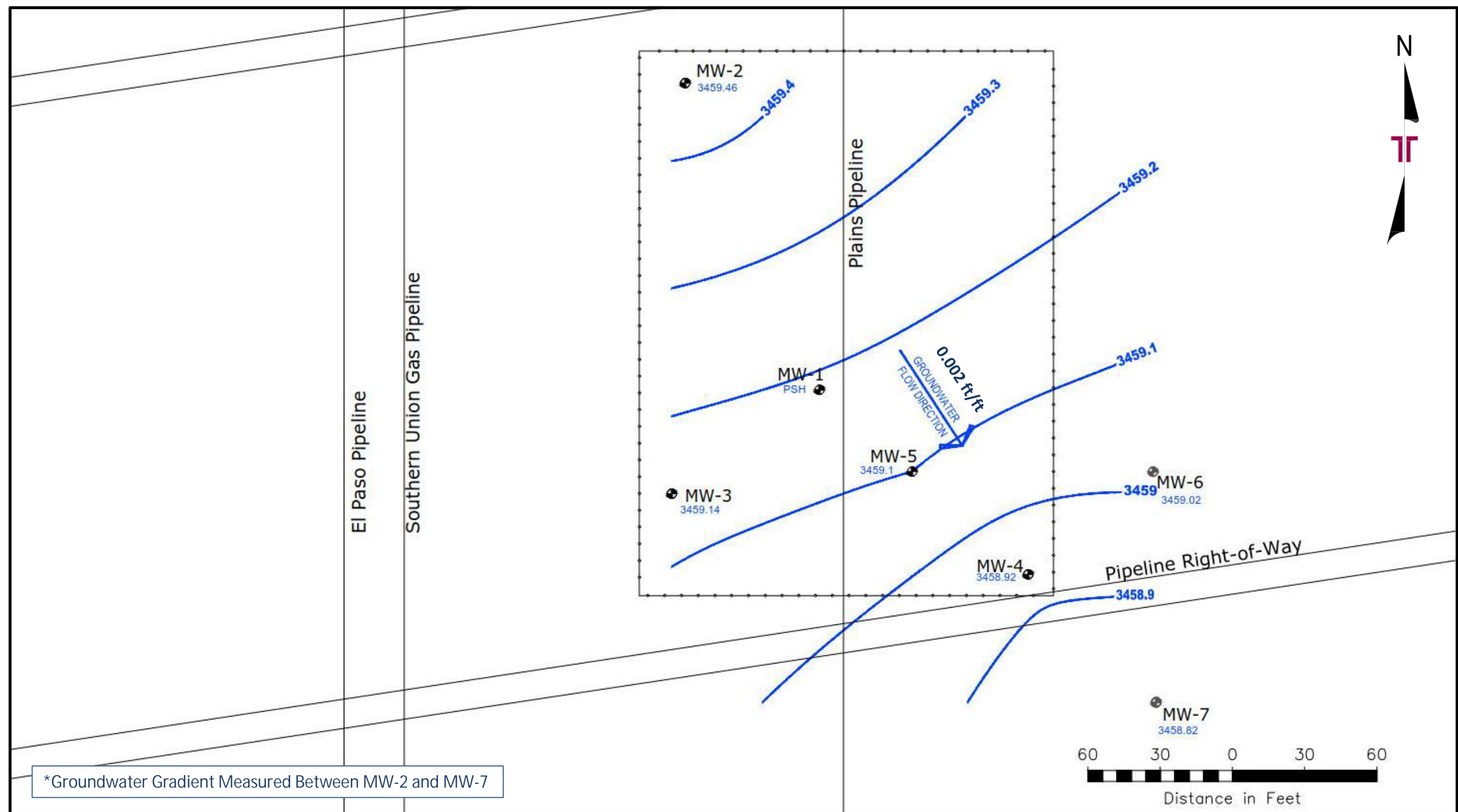
5827 50th St. Suite 1

Lubbock, Texas 79424

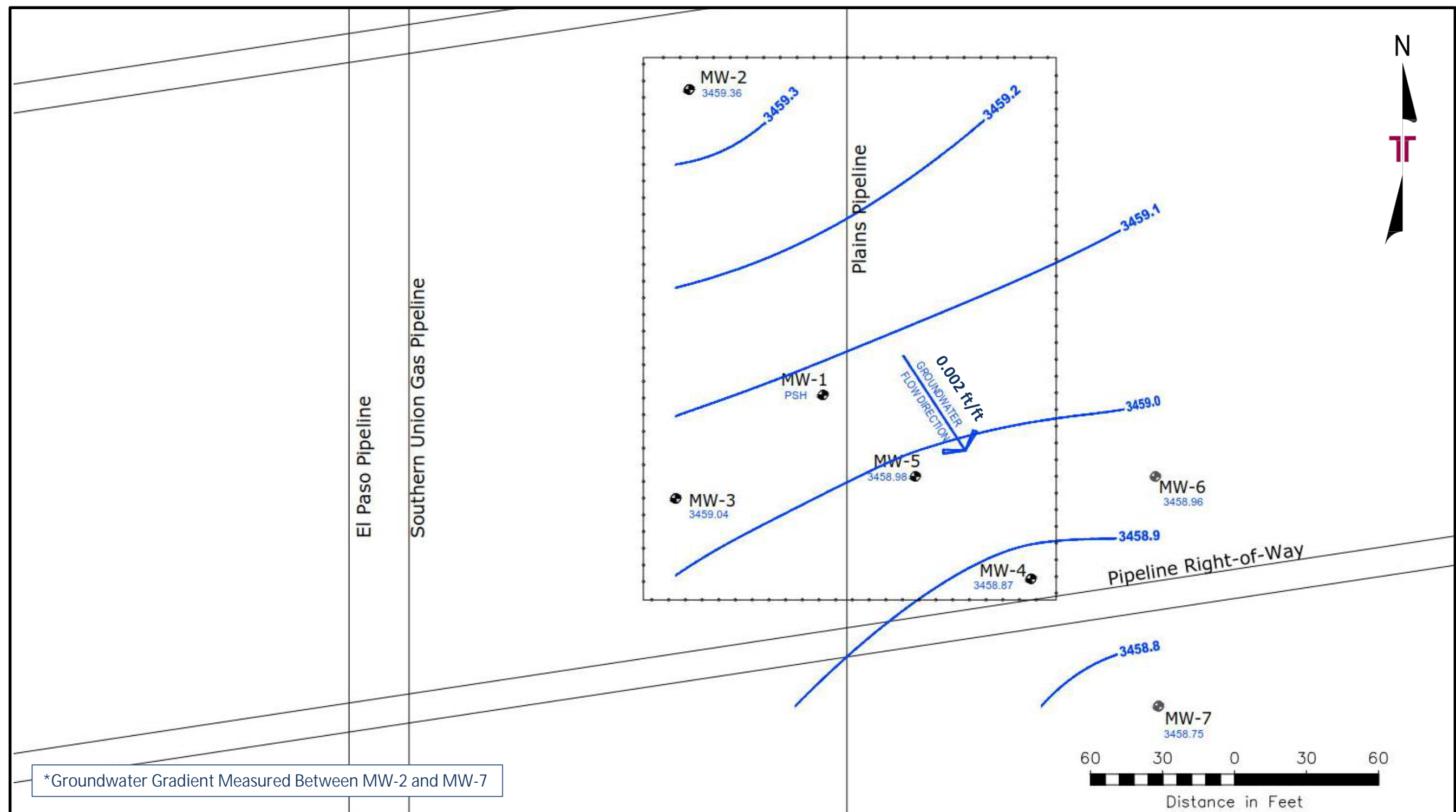
PH. (806) 300-0104


FAX. (806) 797 0947

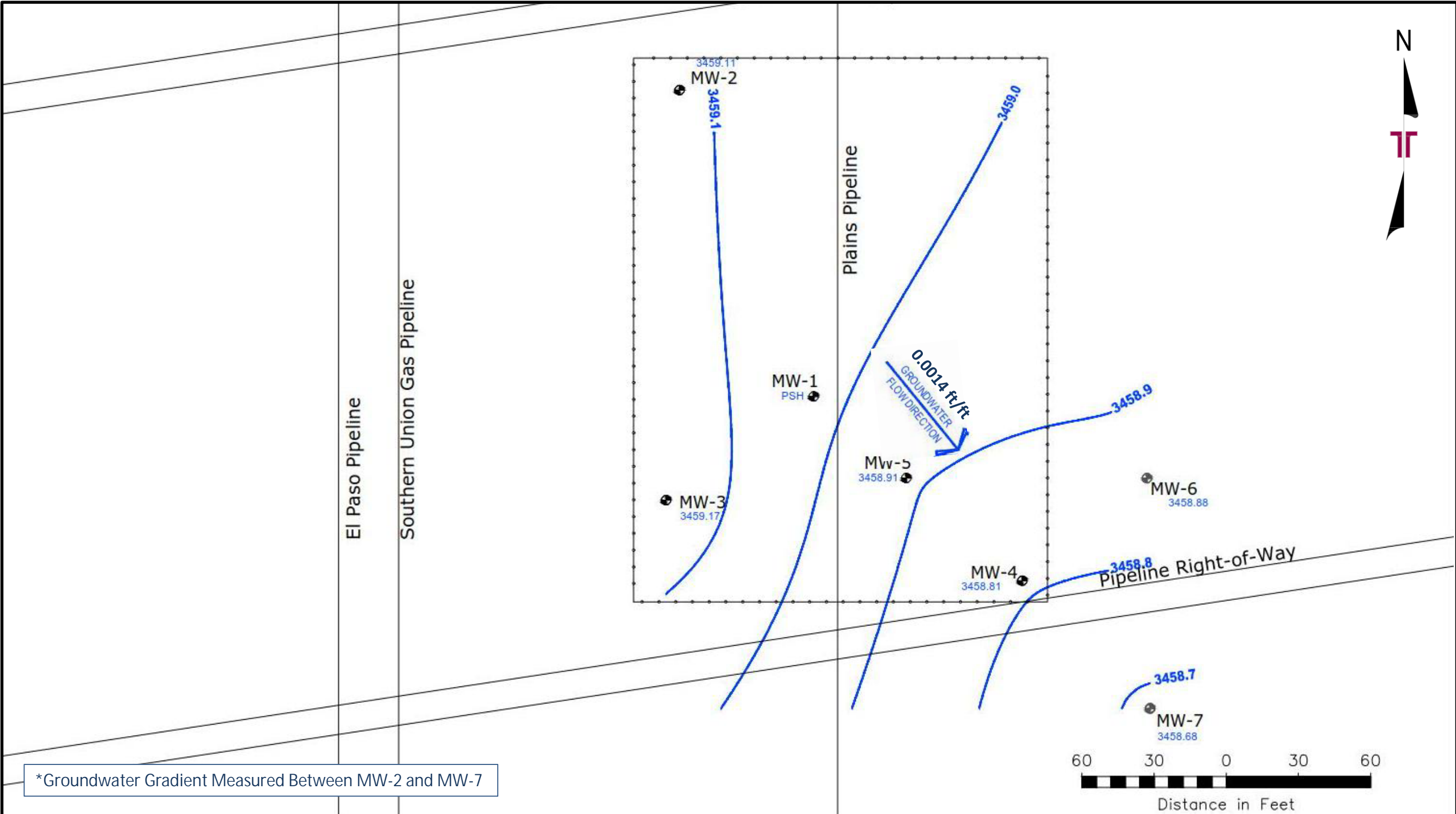
Figure 1 – Site Location Map
DCP Plant to Lea Station 6-Inch #2
NMOCD Ref. No. 1RP-2136
32.53166° , -103.29111°
Lea County, New Mexico



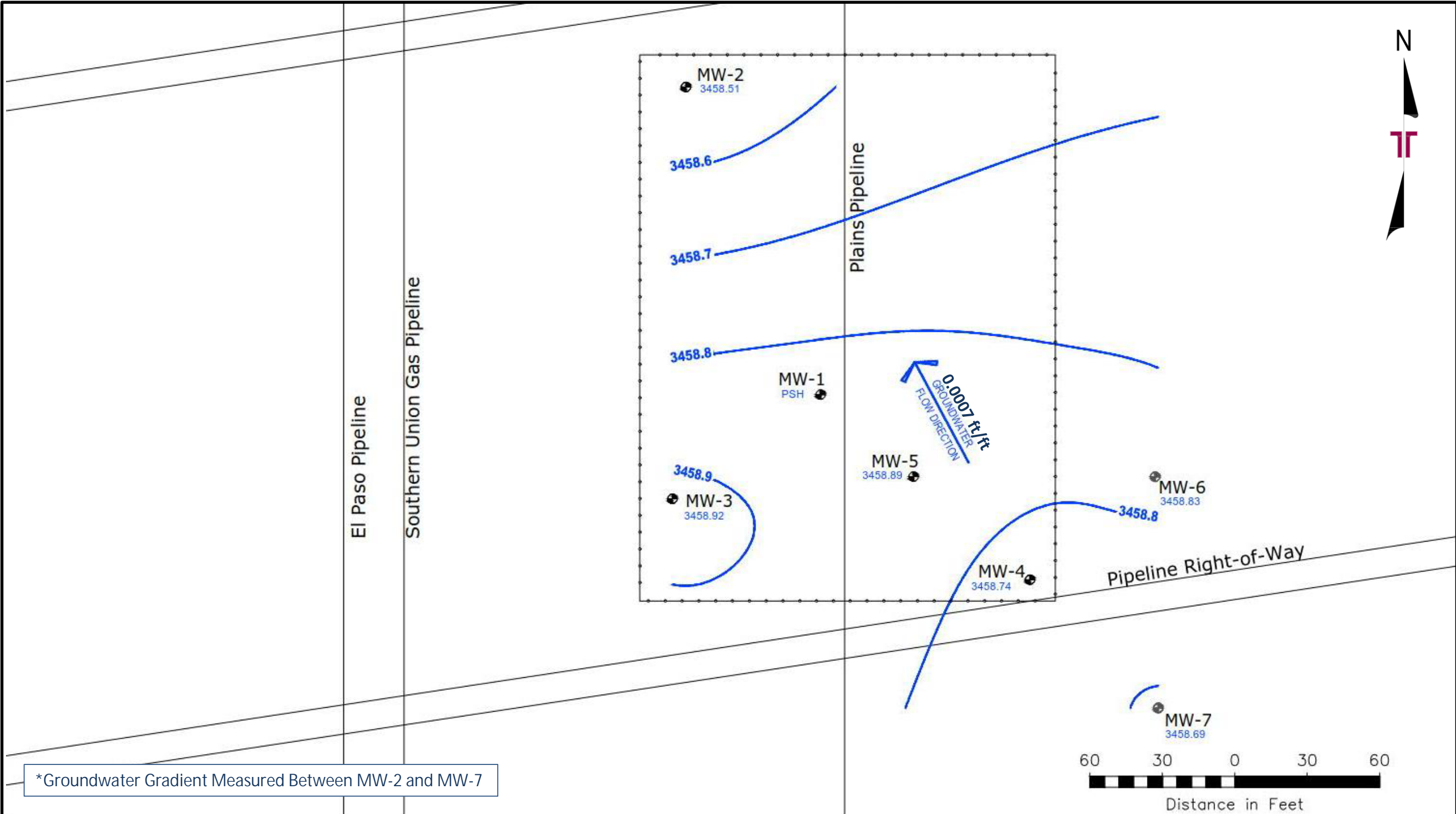
Project No.	AR167321	<div><div><div><div>Terracon</div><div>Consulting Engineers & Scientists</div><div><div>5827 50th St. Suite 1</div><div>Lubbock, Texas 79424</div><div>PH. (806) 300-0104</div><div>FAX. (806) 797 0947</div></div></div></div></div>	Figure 2a – Groundwater Gradient Map 1Q2016	
Scale:	1" = 60'		DCP Plant to Lea Station 6-Inch #2	
Source:	Google Earth		NMOCD Ref. No. 1RP-2136	
Date:	2014		32.53166° , -103.29111°	
			Lea County, New Mexico	



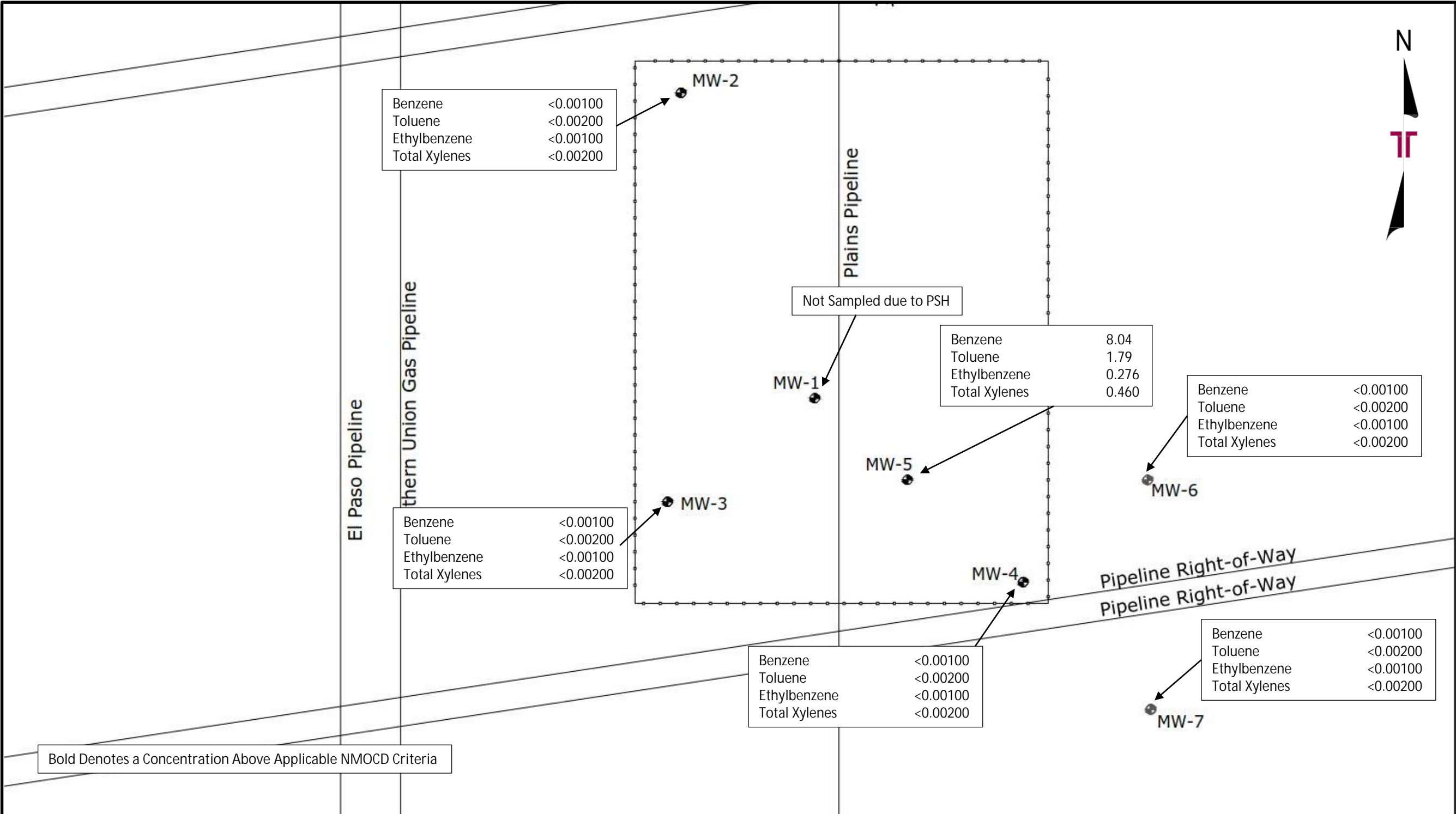
Project No. AR167321	 <p>5827 50th St. Suite 1 Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947</p>	Figure 2b – Groundwater Gradient Map 2Q2016	
Scale: 1" = 60'		DCP Plant to Lea Station 6-Inch #2 NMOCD Ref. No. 1RP-2136 32.53166° , -103.29111° Lea County, New Mexico	
Source: Google Earth			
Date: 2014			

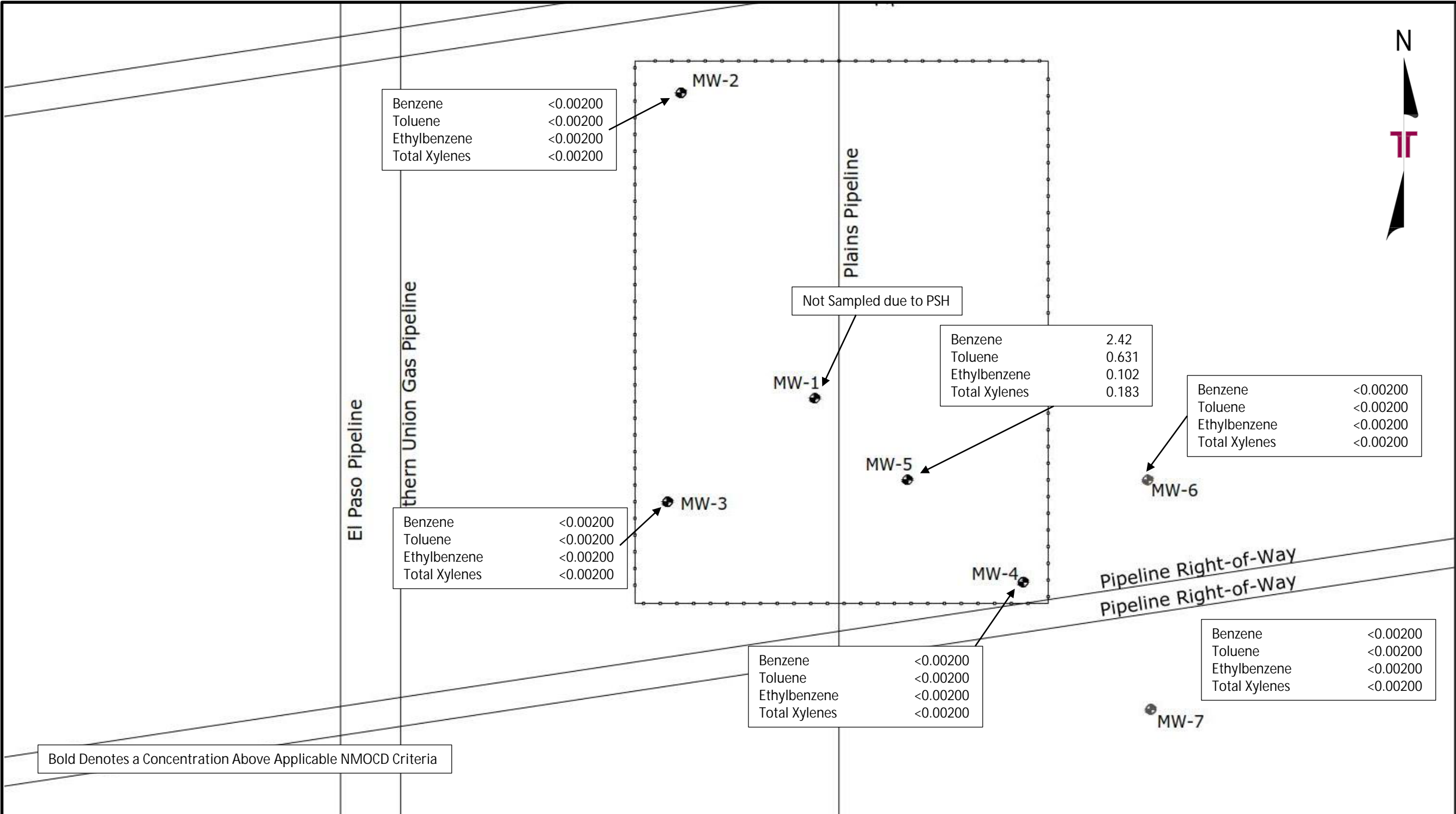


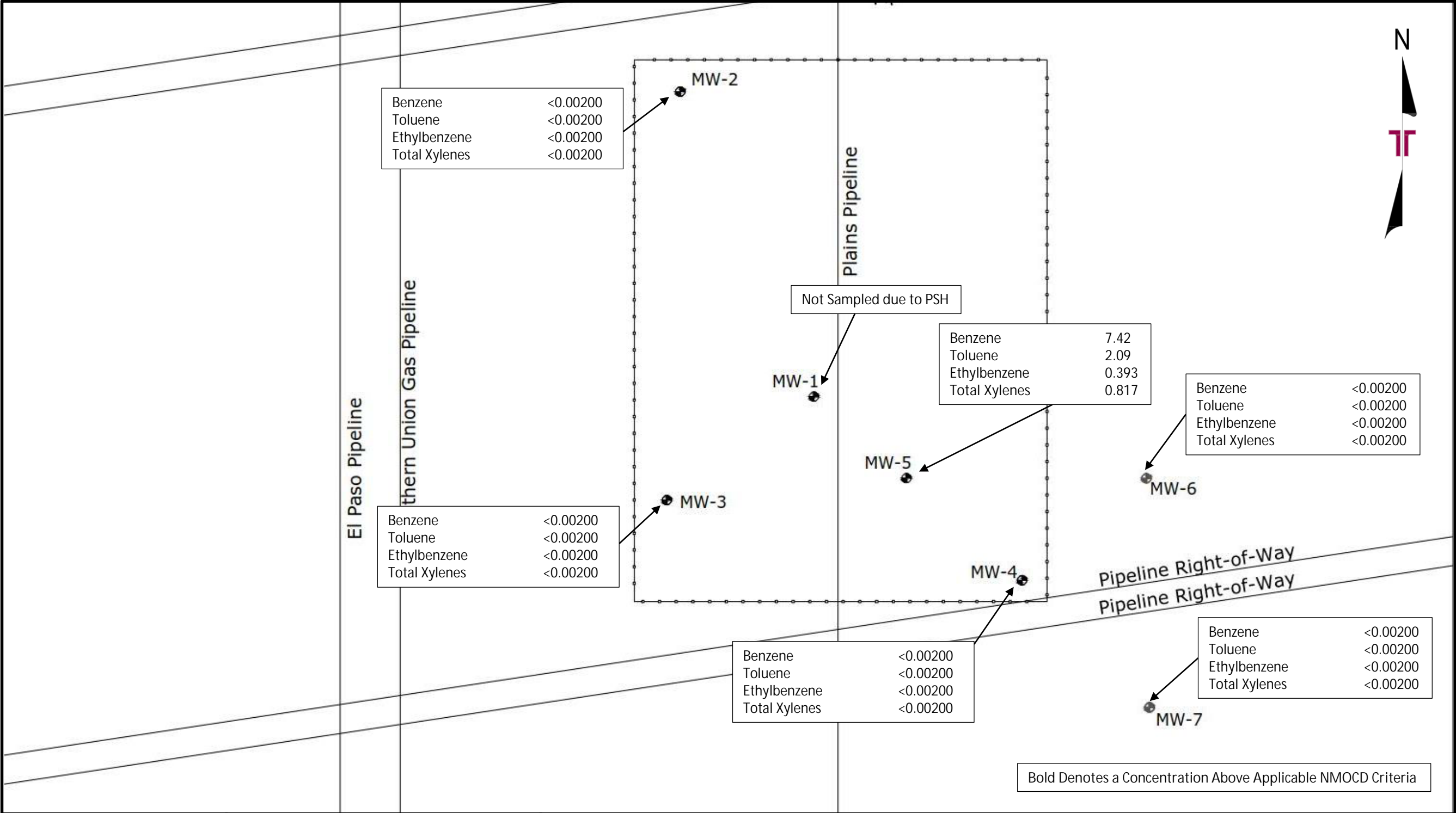
Project No.	AR167321	Figure 2c – Groundwater Gradient Map 3Q2016 DCP Plant to Lea Station 6-Inch #2 NMOCD Ref. No. 1RP-2136 32.53166° , -103.29111° Lea County, New Mexico	
Scale:	1" = 60'		
Source:	Google Earth		
Date:	2014		
Terracon Consulting Engineers & Scientists 5827 50 th St. Suite 1 PH. (806) 300-0104		Lubbock, Texas 79424 FAX. (806) 797 0947	




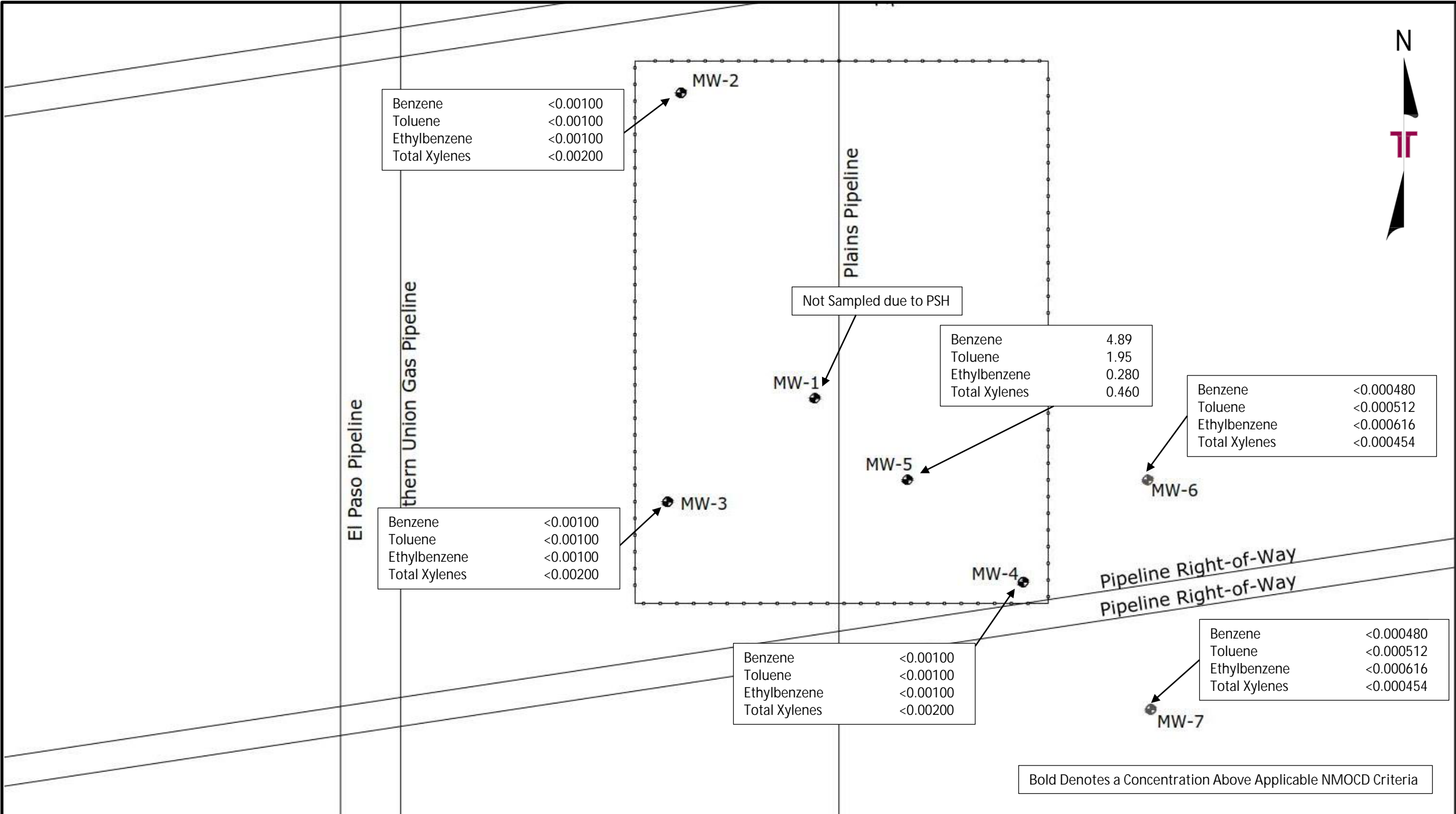
Project No. AR167321		Figure 2d – Groundwater Gradient Map 4Q2016 DCP Plant to Lea Station 6-Inch #2 NMOCD Ref. No. 1RP-2136 32.53166° , -103.29111° Lea County, New Mexico	
Scale:	1" = 60'		
Source:	Google Earth		
Date:	2014		
Terracon Consulting Engineers & Scientists 5827 50 th St. Suite 1 Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947			







Project No.	AR167321	 5827 50 th St. Suite 1 PH. (806) 300-0104 Lubbock, Texas 79424 FAX. (806) 797 0947	Figure 3c – Groundwater Concentration Map 3Q2016	
Scale:	1" = 60'		DCP Plant to Lea Station 6-Inch #2	
Source:	Google Earth		NMOCD Ref. No. 1RP-2136	
Date:	2014		32.53166° , -103.29111°	
			Lea County, New Mexico	



APPENDIX B

Table 1 – Groundwater Elevation and PSH Thickness Data

Table 2 – Groundwater Analytical Summary - BTEX

**TABLE 1
2016 ANNUAL REPORT**

**GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	02/10/2016	3,540.25	81.10	81.50	0.40	3,459.09
	05/03/2016	3,540.25	80.83	81.10	0.27	3,459.38
	11/01/2016	-	-	-	-	-
	12/22/2016	-	-	-	-	-
MW-2	02/10/2016	3,538.31	-	78.85	-	3,459.46
	05/03/2016	3,538.31	-	78.95	-	3,459.36
	11/01/2016	3,538.31	-	79.20	-	3,459.11
	12/22/2016	3,538.31	-	79.80	-	3,458.51
MW-3	02/10/2016	3,538.94	-	79.80	-	3,459.14
	05/03/2016	3,538.94	-	79.90	-	3,459.04
	11/01/2016	3,538.94	-	79.77	-	3,459.17
	12/22/2016	3,538.94	-	80.02	-	3,458.92
MW-4	02/10/2016	3,539.67	-	80.75	-	3,458.92
	05/03/2016	3,539.67	-	80.80	-	3,458.87
	11/01/2016	3,539.67	-	80.86	-	3,458.81
	12/22/2016	3,539.67	-	80.93	-	3,458.74
MW-5	02/10/2016	3,539.55	-	80.45	-	3,459.10
	05/03/2016	3,539.55	-	80.57	-	3,458.98
	11/01/2016	3,539.55	-	80.64	-	3,458.91
	12/22/2016	3,539.55	-	80.66	-	3,458.89
MW-6	02/10/2016	3,539.22	-	80.20	-	3,459.02
	05/03/2016	3,539.22	-	80.26	-	3,458.96
	11/01/2016	3,539.22	-	80.34	-	3,458.88
	12/22/2016	3,539.22	-	80.39	-	3,458.83
MW-7	02/10/2016	3,538.97	-	80.15	-	3,458.82
	05/03/2016	3,538.97	-	80.22	-	3,458.75
	11/01/2016	3,538.97	-	80.29	-	3,458.68
	12/22/2016	3,538.97	-	80.28	-	3,458.69

Elevations based on the North American Vertical Datum of 1988

- = Not applicable

* Due to the presence of a Mobile Dual Phase Extraction (MDPE) unit, monitor well MW-1 was not gauged during the 3rd and 4th quarterly sampling events.

TABLE 2
2016 ANNUAL REPORT

GROUNDWATER ANALYTICAL SUMMARY - BTEX
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021b						
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENES (mg/L)	TOTAL BTEX (mg/L)
MW-2	02/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	05/03/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/01/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
MW-3	02/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	05/03/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/01/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
MW-4	02/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	05/03/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/01/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
MW-5	02/10/2016	8.04	1.79	0.276	0.289	1.81	0.470	10.6
	05/03/2016	2.42	0.631	0.102	0.120	0.0628	0.183	3.34
	11/01/2016	7.42	2.09	0.393	0.546	0.271	0.817	10.7
	12/22/2016	4.89	1.95	0.280	0.290	0.170	0.460	7.58
MW-6	02/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	05/03/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/01/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.000480	<0.000512	<0.000616	<0.000454	<0.000270	<0.000454	<0.000512
MW-7	02/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	05/03/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/01/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.000480	<0.000512	<0.000616	<0.000454	<0.000270	<0.000454	<0.000512
NMOCD CRITERIA		0.01	0.75	0.75	TOTAL XYLENES 0.62			

APPENDIX C

Laboratory Data Sheets

Analytical Report 524835

for

Plains All American EH&S

Project Manager: Ben Arguijo

DCP Plant to Lea Station 6" #2

2009-039

17-FEB-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534-15-1)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)



17-FEB-16

Project Manager: **Ben Arguijo**
Plains All American EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No(s): **524835**
DCP Plant to Lea Station 6" #2
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 524835. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 524835 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 524835



Plains All American EH&S, Midland, TX

DCP Plant to Lea Station 6" #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	02-10-16 16:00		524835-001
MW-3	W	02-10-16 13:30		524835-002
MW-4	W	02-10-16 14:00		524835-003
MW-5	W	02-10-16 14:30		524835-004
MW-6	W	02-10-16 15:30		524835-005
MW-7	W	02-10-16 15:00		524835-006



CASE NARRATIVE



Client Name: Plains All American EH&S

Project Name: DCP Plant to Lea Station 6" #2

Project ID: 2009-039
Work Order Number(s): 524835

Report Date: 17-FEB-16
Date Received: 02/12/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 524835

Plains All American EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6" #2



Project Id: 2009-039
Contact: Ben Arguijo
Project Location:

Date Received in Lab: Fri Feb-12-16 11:41 am
Report Date: 17-FEB-16
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	524835-001	524835-002	524835-003	524835-004	524835-005	524835-006
	Field Id:	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
	Depth:						
	Matrix:	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
	Sampled:	Feb-10-16 16:00	Feb-10-16 13:30	Feb-10-16 14:00	Feb-10-16 14:30	Feb-10-16 15:30	Feb-10-16 15:00
BTEX by EPA 8021B	Extracted:	Feb-15-16 20:00	Feb-15-16 20:00	Feb-15-16 20:00	Feb-16-16 19:00	Feb-15-16 20:00	Feb-15-16 20:00
	Analyzed:	Feb-16-16 14:55	Feb-16-16 15:12	Feb-16-16 15:30	Feb-16-16 19:44	Feb-16-16 15:48	Feb-16-16 16:11
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	ND 0.00100	ND 0.00100	8.04 0.0250	ND 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	1.79 0.0500	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	0.276 0.0250	ND 0.00100	ND 0.00100
m_p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	0.289 0.0500	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	0.181 0.0250	ND 0.00100	ND 0.00100
Xylenes, Total		ND 0.00100	ND 0.00100	ND 0.00100	0.470 0.0250	ND 0.00100	ND 0.00100
Total BTEX		ND 0.00100	ND 0.00100	ND 0.00100	10.6 0.0250	ND 0.00100	ND 0.00100

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 5332 Blackberry Drive, San Antonio TX 78238
 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 524835,

Lab Batch #: 988136

Sample: 524835-001 / SMP

Project ID: 2009-039

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 14:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 988136

Sample: 524835-002 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 15:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 988136

Sample: 524835-003 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 15:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 988136

Sample: 524835-005 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 15:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 988136

Sample: 524835-006 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 16:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 524835,

Lab Batch #: 988153

Sample: 524835-004 / SMP

Project ID: 2009-039

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 19:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0351	0.0300	117	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 988136

Sample: 705005-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/16/16 00:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 988153

Sample: 705027-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/16/16 21:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 988136

Sample: 705005-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/15/16 23:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 988153

Sample: 705027-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/16/16 20:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 524835,

Project ID: 2009-039

Lab Batch #: 988136

Sample: 705005-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/15/16 23:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 988153

Sample: 705027-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/16/16 20:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 988136

Sample: 524638-016 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 02/16/16 13:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: DCP Plant to Lea Station 6" #2

Work Order #: 524835

Project ID: 2009-039

Analyst: PJB

Date Prepared: 02/15/2016

Date Analyzed: 02/15/2016

Lab Batch ID: 988136

Sample: 705005-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0874	87	0.100	0.0874	87	0	70-125	25	
Toluene	<0.00200	0.100	0.0817	82	0.100	0.0823	82	1	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0875	88	0.100	0.0883	88	1	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.177	89	0.200	0.178	89	1	70-131	25	
o-Xylene	<0.00100	0.100	0.0876	88	0.100	0.0886	89	1	71-133	25	

Analyst: PJB

Date Prepared: 02/16/2016

Date Analyzed: 02/16/2016

Lab Batch ID: 988153

Sample: 705027-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0892	89	0.100	0.0886	89	1	70-125	25	
Toluene	<0.00200	0.100	0.0839	84	0.100	0.0825	83	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0881	88	0.100	0.0880	88	0	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.178	89	0.200	0.178	89	0	70-131	25	
o-Xylene	<0.00100	0.100	0.0889	89	0.100	0.0889	89	0	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: DCP Plant to Lea Station 6" #2



Work Order #: 524835

Lab Batch #: 988136

Date Analyzed: 02/16/2016

QC- Sample ID: 524638-016 S

Reporting Units: mg/L

Date Prepared: 02/15/2016

Batch #: 1

Project ID: 2009-039

Analyst: PJB

Matrix: Ground Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Benzene	7.37	2.00	10.1	137	70-125	X
Toluene	0.0406	2.00	1.75	85	70-125	
Ethylbenzene	0.614	2.00	2.55	97	71-129	
m_p-Xylenes	0.127	4.00	3.80	92	70-131	
o-Xylene	<0.0200	2.00	1.79	90	71-133	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

CHAIN OF CUSTODY RECORD

Page 1 of 1

LAB W.O. #:

504835

Field billable Hrs.:

Company: Basin Environmental Service Technologies, LLC
Address: 3100 Plains Hwy.
City: Lovington
State: NM
Zip: 88260
Phone: (575)396-2378
Fax: (575)396-1429

PM/Attn: Ben Arguio
Email: benarguio@basinet.com
Project ID: DCP Plant to Lea Station 6' #2
SRS #2009-039
Invoice To: Camille Bryant Plains All American
Quote #:

Circle One Event: Daily Weekly Monthly
Semi-Annual N/A

Sample Name: Kyle Humphrey

Quantity: 1
Semi-Annual: 1
Annual: 1
Monthly: 1

Matrix: BTEX

Lab Only:

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

TAT Work Days = D Need results by: Time:

Sid (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

BTEX

VP

E.I.

Size(s): 202 402 802 1602 3202 1601 4001 125 ml 250 ml 500 ml 1L Other

Preservative Type Codes

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA
C. H₂SO₄ G. Na₂S₂O₃ K. ZincAcOH
D. NaOH H. NaHSO₄ L. Asoc AddKNaOH
O. Other

Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge

REMARKS

Non-Conformance found?

Received on Wet lot?

Received within holding time?

Custody seals intact?

VOCs rec'd w/o headspace?

Proper containers used?

pH verified-acceptable, exd VOCs?

Received on time to meet HTS?

C.O.C. Serial #

FTS Service Centers:

B&A Laboratories:

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009

Page 12 of 13

Final 1.000

Page 12 of 13



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Plains All American EH&S

Date/ Time Received: 02/12/2016 11:41:00 AM

Work Order #: 524835

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Carley Owens
Carley Owens

Date: 02/12/2016

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 02/15/2016

Analytical Report 529712

for Plains All American EH&S

Project Manager: Ben Arguijo

DCP Plant to Lea Station 6" #2

13-MAY-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534-15-1)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)



13-MAY-16

Project Manager: **Ben Arguijo**
Plains All American EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No(s): **529712**
DCP Plant to Lea Station 6" #2
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 529712. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 529712 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Julian Martinez

Project Manager

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Sample Cross Reference 529712



Plains All American EH&S, Midland, TX

DCP Plant to Lea Station 6" #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	05-03-16 11:40		529712-001
MW-3	W	05-03-16 11:20		529712-002
MW-4	W	05-03-16 09:30		529712-003
MW-5	W	05-03-16 10:30		529712-004
MW-6	W	05-03-16 10:50		529712-005
MW-7	W	05-03-16 10:00		529712-006



CASE NARRATIVE



Client Name: Plains All American EH&S

Project Name: DCP Plant to Lea Station 6" #2

Project ID:

Work Order Number(s): 529712

Report Date: 13-MAY-16

Date Received: 05/06/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 529712



Plains All American EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6" #2

Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri May-06-16 01:30 pm

Report Date: 13-MAY-16

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	529712-001	529712-002	529712-003	529712-004	529712-005	529712-006
	<i>Field Id:</i>	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
	<i>Depth:</i>						
	<i>Matrix:</i>	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
	<i>Sampled:</i>	May-03-16 11:40	May-03-16 11:20	May-03-16 09:30	May-03-16 10:30	May-03-16 10:50	May-03-16 10:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-09-16 19:00	May-09-16 19:00	May-09-16 19:00	May-09-16 19:00	May-09-16 19:00	May-09-16 19:00
	<i>Analyzed:</i>	May-09-16 22:15	May-09-16 22:31	May-09-16 22:48	May-10-16 11:07	May-09-16 23:04	May-09-16 23:20
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00200	ND 0.00200	ND 0.00200	2.42 0.0400	ND 0.00200	ND 0.00200
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	0.631 0.0400	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00200	ND 0.00200	ND 0.00200	0.102 0.0400	ND 0.00200	ND 0.00200
m_p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	0.120 0.0400	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00200	ND 0.00200	ND 0.00200	0.0628 0.0400	ND 0.00200	ND 0.00200
Total Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	0.183 0.0400	ND 0.00200	ND 0.00200
Total BTEX		ND 0.00200	ND 0.00200	ND 0.00200	3.34 0.0400	ND 0.00200	ND 0.00200

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Julian Martinez
Project Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 529712, 529712

Project ID:

Lab Batch #: 994094

Sample: 529712-001 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 22:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 994094

Sample: 529712-002 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 22:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 994094

Sample: 529712-003 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 22:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 994094

Sample: 529712-005 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 23:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 994094

Sample: 529712-006 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 23:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 529712, 529712

Project ID:

Lab Batch #: 994094

Sample: 529712-004 / SMP

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/10/16 11:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 994094

Sample: 708680-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/09/16 20:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 994094

Sample: 708680-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/09/16 19:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 994094

Sample: 708680-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/09/16 19:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 994094

Sample: 529711-001 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 19:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 529712, 529712

Lab Batch #: 994094

Sample: 529711-001 SD / MSD

Project ID:

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 05/09/16 20:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: DCP Plant to Lea Station 6" #2

Work Order #: 529712, 529712

Analyst: PJB

Date Prepared: 05/09/2016

Project ID:

Date Analyzed: 05/09/2016

Lab Batch ID: 994094

Sample: 708680-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.0916	92	0.100	0.0998	100	9	70-125	25	
Toluene	<0.00200	0.100	0.0923	92	0.100	0.101	101	9	70-125	25	
Ethylbenzene	<0.00200	0.100	0.0934	93	0.100	0.102	102	9	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.193	97	0.200	0.213	107	10	70-131	25	
o-Xylene	<0.00200	0.100	0.0944	94	0.100	0.104	104	10	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: DCP Plant to Lea Station 6" #2

Work Order # : 529712

Project ID:

Lab Batch ID: 994094

QC- Sample ID: 529711-001 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/09/2016

Date Prepared: 05/09/2016

Analyst: PJB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.102	102	0.100	0.0906	91	12	70-125	25	
Toluene	<0.00200	0.100	0.103	103	0.100	0.0915	92	12	70-125	25	
Ethylbenzene	<0.00200	0.100	0.104	104	0.100	0.0922	92	12	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.218	109	0.200	0.192	96	13	70-131	25	
o-Xylene	<0.00200	0.100	0.108	108	0.100	0.0939	94	14	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Houston: 4143 Greenbrier Dr. Stafford, TX 77477 (281)240-4200
Hobbs: 4008 N Grimes Hobbs, NM 88240 (575)392-7550

CHAIN OF CUSTODY RECORD

Page 1 of 1

Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

LAB W/O #:

529712

Field billable Hrs.:

Need results by: Time:

* Container Type Codes	
VA Vial Amber	ES Encore Sampler
VC Vial Clear	TS TerraCore Sampler
VP Vial Pre-preserved	AC Air Canister
GA Glass Amber	TB Teller Bag
GC Glass Clear	ZB Zip Lock Bag
PA Plastic Amber	PC Plastic Clear
Other	

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1 Gal
4oz, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO ₃	F. MeOH	J. MCAA
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc2NaOH
D. NaOH	H. NaHSO ₄	L. Aspic Acid&NaOH
O. Other		

^ Matrix Type Codes

GW Ground Water	S Soil/Sediment/Solid
WW Waste Water	W Wipe
DW Drinking Water	A Air
SW Surface Water	O Oil
OW Ocean/Sea Water	T Tissue
PL Product-Liquid	U Urine
PS Product-Solid	B Blood
SL Sludge	
Other	

REMARKS

Company:	Basin Environmental Service Technologies, LLC	Phone:	(575)396-2378	TAT Work Days = D	Need results by:	Time:
Address:	3100 Plains Hwy.	Fax:	(575)396-1429	Sid (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other		
City:	Lovington	State:	NM	Zip:	88260	
PM/Attn:	Ben Arguio	Email:	barguio@basinenv.com	Cost Type *	VC	
Project ID:	DCP Plant to Lea Station 6" #2	PO#:	PAA-C. Bryant	Pres Type**	E.I.	
Invoice To:	Camille Bryant Plains All American	Quote #:				
Sampler Name:	Abe Redecop	Circle One Event:	Daily	Weekly	Monthly	
		Quarterly	Semi-Annual	Annual	N/A	
#	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)
1	MMW-2	5/3/16	11:40	GW		3
2	MMW-3	5/3/16	11:20	GW		3
3	MMW-4	5/3/16	9:30	GW		3
4	MMW-5	5/3/16	10:30	GW		3
5	MMW-6	5/3/16	10:50	GW		3
6	MMW-7	5/3/16	10:00	GW		3
7						
8						
9						
0						
Reg. Program / Clean-up Std	STATE for Cents & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers	Temp °C
CTLs TRRP DW NPDES LPST Dych Other:	FL TX GA NC SC NU PA OK	1 2 3 4 CLP AFCEE QAPP	ADAPT SEDD ERPIMS	Match Incomplete	15.1	2 3
	LA AL NM Other:	NEIAC DOD-ELAP Other:	XLS Other:	Affiliation	Unclear	
1	Relinquished by	Affiliation	Date	Time	Received by	MS
2						
3						
4						
Lab Use Only						
Non-Conformances found?						
Samples intact upon arrival?						
Received on Vial Ice?						
Labeled with proper preservatives?						
Custody seals intact?						
VOCs rec'd w/o headspace?						
Proper containers used?						
pH verified-acceptable, excl VOCs?						
Received on time to meet HTS?						
YES NO N/A						

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. T. past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: 3.2016 ID: R8 3.2016



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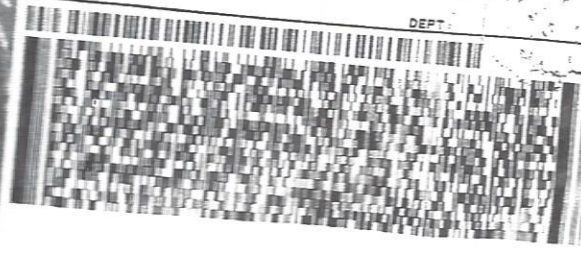
ODESSA TX 79701

(432) 563-1800

INV:
PO:

REF:

DEPT:



FedEx
Express



TRK# 6606 3911 5975
8281

FRI - 06 MAY 3:00P
STANDARD OVERNIGHT

41 MAFA

77a

TX-L





XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Plains All American EH&S

Date/ Time Received: 05/06/2016 01:30:00 PM

Work Order #: 529712

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	N/A
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Mary Alexis Negron
Mary Negron

Date: 05/06/2016

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/09/2016

Analytical Report 539616

for Plains All American EH&S

Project Manager: Joel Lowry

DCP Plant Lea Station #2

08-NOV-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Table of Contents

Cover Page	1
Cover Letter	3
Sample ID Cross Reference	4
Case Narrative	5
Hits Summary	6
Certificate of Analysis Summary	7
Explanation of Qualifiers (Flags)	8
Surrogate Recoveries	9
LCS / LCSD Recoveries	12
MS / MSD Recoveries	13
Sample Receipt Conformance Report	14
Chain of Custody	15
Sample Receipt Conformance Report	16



08-NOV-16

Project Manager: **Joel Lowry**
Plains All American EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No(s): **539616**
DCP Plant Lea Station #2
Project Address: Lea Co, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 539616. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 539616 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 539616



Plains All American EH&S, Midland, TX

DCP Plant Lea Station #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	11-01-16 11:10		539616-001
MW-3	W	11-01-01 13:15		539616-002
MW-4	W	11-01-16 13:22		539616-003
MW-5	W	11-01-16 11:43		539616-004
MW-6	W	11-01-16 11:40		539616-005
MW-7	W	11-01-16 17:07		539616-006



CASE NARRATIVE



Client Name: Plains All American EH&S

Project Name: DCP Plant Lea Station #2

Project ID:

Work Order Number(s): 539616

Report Date: 08-NOV-16

Date Received: 11/02/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Hits Summary 539616



Plains All American EH&S, Midland, TX

DCP Plant Lea Station #2

Sample Id : **MW-5**
Lab Sample Id : 539616-004

Matrix : Water
Date Collected : 11.01.16 11.43
Date Received : 11.02.16 08.49

% Moisture :

Analytical Method : BTEX by EPA 8021
Seq Number 3003227

Prep Method: SW5030B
Date Prep: 11.02.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	7.42	mg/L	11.03.16 14.48		50
Toluene	108-88-3	2.09	mg/L	11.03.16 14.48		50
Ethylbenzene	100-41-4	0.393	mg/L	11.03.16 14.48		50
m_p-Xylenes	179601-23-1	0.546	mg/L	11.03.16 14.48		50
o-Xylene	95-47-6	0.271	mg/L	11.03.16 14.48		50
Xylenes, Total	1330-20-7	0.817	mg/L	11.03.16 14.48		50
Total BTEX		10.7	mg/L	11.03.16 14.48		50



Certificate of Analysis Summary 539616

Plains All American EH&S, Midland, TX

Project Name: DCP Plant Lea Station #2



Project Id:

Contact: Joel Lowry

Project Location: Lea Co, NM

Date Received in Lab: Wed Nov-02-16 08:49 am

Report Date: 08-NOV-16

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	539616-001	539616-002	539616-003	539616-004	539616-005	539616-006
	<i>Field Id:</i>	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Nov-01-16 11:10	Nov-01-01 13:15	Nov-01-16 13:22	Nov-01-16 11:43	Nov-01-16 11:40	Nov-01-16 17:07
BTEX by EPA 8021	<i>Extracted:</i>	Nov-02-16 17:00	Nov-02-16 17:00	Nov-02-16 17:00	Nov-02-16 17:00	Nov-02-16 17:00	Nov-02-16 17:00
	<i>Analyzed:</i>	Nov-02-16 17:26	Nov-02-16 17:42	Nov-02-16 17:58	Nov-03-16 14:48	Nov-02-16 18:14	Nov-02-16 18:30
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00200	ND 0.00200	ND 0.00200	7.42 0.100	ND 0.00200	ND 0.00200
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	2.09 0.100	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00200	ND 0.00200	ND 0.00200	0.393 0.100	ND 0.00200	ND 0.00200
m_p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	0.546 0.100	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00200	ND 0.00200	ND 0.00200	0.271 0.100	ND 0.00200	ND 0.00200
Xylenes, Total		ND 0.00200	ND 0.00200	ND 0.00200	0.817 0.100	ND 0.00200	ND 0.00200
Total BTEX		ND 0.00200	ND 0.00200	ND 0.00200	10.7 0.100	ND 0.00200	ND 0.00200

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 5332 Blackberry Drive, San Antonio TX 78238
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 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: DCP Plant Lea Station #2

Work Orders : 539616,

Lab Batch #: 3003227

Sample: 539616-001 / SMP

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 17:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 3003227

Sample: 539616-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 17:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 3003227

Sample: 539616-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 17:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 3003227

Sample: 539616-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 18:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 3003227

Sample: 539616-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 18:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant Lea Station #2

Work Orders : 539616,

Lab Batch #: 3003227

Sample: 539616-004 / SMP

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/16 14:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 3003227

Sample: 715687-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 17:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 3003227

Sample: 715687-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 15:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 3003227

Sample: 715687-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 16:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 3003227

Sample: 539616-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 16:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: DCP Plant Lea Station #2

Work Orders : 539616,

Lab Batch #: 3003227

Sample: 539616-001 SD / MSD

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/16 16:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: DCP Plant Lea Station #2

Work Order #: 539616

Analyst: PJB

Date Prepared: 11/02/2016

Project ID:

Date Analyzed: 11/02/2016

Lab Batch ID: 3003227

Sample: 715687-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.0949	95	0.100	0.0941	94	1	70-125	25	
Toluene	<0.00200	0.100	0.0956	96	0.100	0.0943	94	1	70-125	25	
Ethylbenzene	<0.00200	0.100	0.0992	99	0.100	0.0969	97	2	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.204	102	0.200	0.199	100	2	70-131	25	
o-Xylene	<0.00200	0.100	0.101	101	0.100	0.0980	98	3	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: DCP Plant Lea Station #2

Work Order # : 539616

Project ID:

Lab Batch ID: 3003227

QC- Sample ID: 539616-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/02/2016

Date Prepared: 11/02/2016

Analyst: PJB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.0943	94	0.100	0.0905	91	4	70-125	25	
Toluene	<0.00200	0.100	0.0959	96	0.100	0.0906	91	6	70-125	25	
Ethylbenzene	<0.00200	0.100	0.0982	98	0.100	0.0946	95	4	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.202	101	0.200	0.195	98	4	70-131	25	
o-Xylene	<0.00200	0.100	0.100	100	0.100	0.0970	97	3	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Plains All American EH&S

Date/ Time Received: 11/02/2016 08:49:00 AM

Work Order #: 539616

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Julian Martinez

Date: 11/02/2016

Checklist reviewed by:

Kelsey Brooks

Date: 11/02/2016



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 of 1

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

WWW.XENCO.COM

Xenco Quote #

Xenco Job #

539616

Client / Reporting Information

Project Information

Company Name / Branch:
Terracon Consulting-Lubbock

Project Name/Number:
DCP Plant Lea Station #2

Company Address:
5827 50th st, Suite 1
Lubbock TX 79424

Project Location:
Lea Co, NM

Email:
joel.lowy@terracon.com

Phone No:

Invoice To:
Plains

Project Contact: Joel Lowry

PO Number: SRS 2009-039

Sampler's Name

No. Field ID / Point of Collection

Sample Depth

Date

Time

Matrix

of bottles

HCl

NaOH/Zn Acetate

HNO3

H2SO4

NaOH

NaHSO4

MEOH

NONE

BTEX 8021B

Field Comments

Matrix Codes

W = Water

S = Soil/Sed/Solid

GW = Ground Water

DW = Drinking Water

P = Product

SW = Surface water

SL = Sludge

OW = Ocean/Sea Water

WI = Wipe

O = Oil

WW = Waste Water

A = Air

Turnaround Time (Business days)

Data Deliverable Information

Notes:

☐ Same Day TAT

☐ 5 Day TAT

☐ Level II Std QC

☐ Level IV (Full Data Pkg /raw data)

☐ Next Day EMERGENCY

☐ 7 Day TAT

☐ Level III Std QC+ Forms

☐ TRRP Level IV

☐ 2 Day EMERGENCY

☒ Contract TAT

☐ Level 3 (CLP Forms)

☐ UST / RG-411

☐ 3 Day EMERGENCY

☐ TRRP Checklist

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:

Date Time:

4/2/14 8:47

Received By:

John Martinez

Relinquished By:

Date Time:

2

Received By:

Temp: 5.5R ID-R-8

Relinquished by:

Date Time:

3

Received By:

4

Custody Seal #

Preserved where applicable

On Ice

Corrected Temp: 5.6

5

Date Time:

5

Received By:

5

Relinquished By:

Date Time:

5

Received By:

5

Notice: Notice of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Plains All American EH&S

Date/ Time Received: 11/02/2016 08:49:00 AM

Work Order #: 539616

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#22 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Julian Martinez

Date: 11/02/2016

Checklist reviewed by:

Kelsey Brooks

Date: 11/02/2016

Certificate of Analysis Summary 542898

Terracon Lubbock, Lubbock, TX

Project Name: DCP Plant to Lea Station 6" #2

Project Id: AR167321

Contact: Joel Lowry

Project Location:

Date Received in Lab: Thu Dec-22-16 04:15 pm

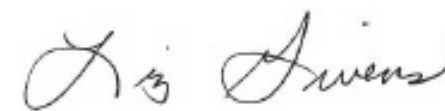
Report Date: 05-JAN-17

Project Manager: Liz Givens

<i>Analysis Requested</i>	<i>Lab Id:</i>	542898-001	542898-002	542898-003	542898-004	542898-005	542898-006
	<i>Field Id:</i>	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Dec-22-16 11:30	Dec-22-16 11:03	Dec-22-16 11:35	Dec-22-16 12:46	Dec-22-16 12:30	Dec-22-16 11:12
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-27-16 16:00	Dec-27-16 16:00	Dec-27-16 16:00	Jan-03-17 14:00	Jan-03-17 14:00	Jan-03-17 14:00
	<i>Analyzed:</i>	Dec-27-16 19:11	Dec-27-16 21:00	Dec-27-16 21:27	Jan-03-17 18:31	Jan-03-17 20:18	Jan-03-17 20:46
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	4.89 0.0500	<0.000480 0.00100	<0.000480 0.00100
Toluene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	1.95 0.0500	<0.000512 0.00100	<0.000512 0.00100
Ethylbenzene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	0.280 0.0500	<0.000616 0.00100	<0.000616 0.00100
m,p-Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	0.290 0.100	<0.000454 0.00200	<0.000454 0.00200
o-Xylene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	0.170 0.0500	<0.000270 0.00100	<0.000270 0.00100
Total Xylenes		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	0.460 0.0500	<0.000270 0.00100	<0.000270 0.00100
Total BTEX		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	7.58 0.0500	<0.000270 0.00100	<0.000270 0.00100

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Liz Givens
Project Manager

Analytical Report 542898

**for
Terracon Lubbock**

Project Manager: Joel Lowry

DCP Plant to Lea Station 6" #2

AR167321

05-JAN-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

05-JAN-17

Project Manager: **Joel Lowry**

Terracon Lubbock

5827 50th st, Suite 1

Lubbock, TX 79424

Reference: XENCO Report No(s): **542898**

DCP Plant to Lea Station 6" #2

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 542898. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 542898 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Liz Givens

Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	12-22-16 11:30		542898-001
MW-3	W	12-22-16 11:03		542898-002
MW-4	W	12-22-16 11:35		542898-003
MW-5	W	12-22-16 12:46		542898-004
MW-6	W	12-22-16 12:30		542898-005
MW-7	W	12-22-16 11:12		542898-006

Client Name: Terracon Lubbock***Project Name: DCP Plant to Lea Station 6" #2***

Project ID: AR167321

Report Date: 05-JAN-17

Work Order Number(s): 542898

Date Received: 12/22/2016

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-2**
Lab Sample Id: 542898-001

Matrix: Water
Date Collected: 12.22.16 11.30

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 12.27.16 16.00

Seq Number: 3006800

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/L	12.27.16 19.11	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
Total BTEX		<0.00100	0.00100	mg/L	12.27.16 19.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	98	%	66-120	12.27.16 19.11		
4-Bromofluorobenzene	460-00-4	113	%	67-120	12.27.16 19.11		

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-3**
Lab Sample Id: 542898-002

Matrix: Water
Date Collected: 12.22.16 11.03

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 12.27.16 16.00

Seq Number: 3006800

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/L	12.27.16 21.00	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
Total BTEX		<0.00100	0.00100	mg/L	12.27.16 21.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	97	%	66-120	12.27.16 21.00		
4-Bromofluorobenzene	460-00-4	112	%	67-120	12.27.16 21.00		

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-4**
Lab Sample Id: 542898-003

Matrix: Water
Date Collected: 12.22.16 11.35

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 12.27.16 16.00

Seq Number: 3006800

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/L	12.27.16 21.27	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
Total BTEX		<0.00100	0.00100	mg/L	12.27.16 21.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	98	%	66-120	12.27.16 21.27		
4-Bromofluorobenzene	460-00-4	114	%	67-120	12.27.16 21.27		

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-5**
Lab Sample Id: 542898-004

Matrix: Water
Date Collected: 12.22.16 12.46

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.03.17 14.00

Seq Number: 3006881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	4.89	0.0500	mg/L	01.03.17 18.31		50
Toluene	108-88-3	1.95	0.0500	mg/L	01.03.17 18.31		50
Ethylbenzene	100-41-4	0.280	0.0500	mg/L	01.03.17 18.31		50
m,p-Xylenes	179601-23-1	0.290	0.100	mg/L	01.03.17 18.31		50
o-Xylene	95-47-6	0.170	0.0500	mg/L	01.03.17 18.31		50
Total Xylenes	1330-20-7	0.460	0.0500	mg/L	01.03.17 18.31		50
Total BTEX		7.58	0.0500	mg/L	01.03.17 18.31		50
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	98	%	66-120	01.03.17 18.31		
4-Bromofluorobenzene	460-00-4	98	%	67-120	01.03.17 18.31		

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-6**
Lab Sample Id: 542898-005

Matrix: Water
Date Collected: 12.22.16 12.30

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.03.17 14.00

Seq Number: 3006881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000480	0.00100	mg/L	01.03.17 20.18	U	1
Toluene	108-88-3	<0.000512	0.00100	mg/L	01.03.17 20.18	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	mg/L	01.03.17 20.18	U	1
m,p-Xylenes	179601-23-1	<0.000454	0.00200	mg/L	01.03.17 20.18	U	1
o-Xylene	95-47-6	<0.000270	0.00100	mg/L	01.03.17 20.18	U	1
Total Xylenes	1330-20-7	<0.000270	0.00100	mg/L	01.03.17 20.18	U	1
Total BTEX		<0.000270	0.00100	mg/L	01.03.17 20.18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	98	%	66-120	01.03.17 20.18		
4-Bromofluorobenzene	460-00-4	98	%	67-120	01.03.17 20.18		

Certificate of Analytical Results 542898

Terracon Lubbock, Lubbock, TX

DCP Plant to Lea Station 6" #2

Sample Id: **MW-7**
Lab Sample Id: 542898-006

Matrix: Water
Date Collected: 12.22.16 11.12

Date Received: 12.22.16 16.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.03.17 14.00

Seq Number: 3006881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000480	0.00100	mg/L	01.03.17 20.46	U	1
Toluene	108-88-3	<0.000512	0.00100	mg/L	01.03.17 20.46	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	mg/L	01.03.17 20.46	U	1
m,p-Xylenes	179601-23-1	<0.000454	0.00200	mg/L	01.03.17 20.46	U	1
o-Xylene	95-47-6	<0.000270	0.00100	mg/L	01.03.17 20.46	U	1
Total Xylenes	1330-20-7	<0.000270	0.00100	mg/L	01.03.17 20.46	U	1
Total BTEX		<0.000270	0.00100	mg/L	01.03.17 20.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
a,a,a-Trifluorotoluene	98-08-8	99	%	66-120	01.03.17 20.46		
4-Bromofluorobenzene	460-00-4	103	%	67-120	01.03.17 20.46		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 5332 Blackberry Drive, San Antonio TX 78238
 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Terracon Lubbock
DCP Plant to Lea Station 6" #2

Analytical Method: BTEX by EPA 8021B

Seq Number: 3006800

MB Sample Id: 717866-1-BLK

Matrix: Water

LCS Sample Id: 717866-1-BKS

Prep Method: SW5030B

Date Prep: 12.27.16

LCSD Sample Id: 717866-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.101	101	0.102	102	15-147	1	20	mg/L	12.27.16 17:24	
Toluene	<0.00100	0.100	0.104	104	0.104	104	11-147	0	20	mg/L	12.27.16 17:24	
Ethylbenzene	<0.00100	0.100	0.105	105	0.103	103	10-149	2	20	mg/L	12.27.16 17:24	
m,p-Xylenes	<0.00200	0.200	0.211	106	0.207	104	62-124	2	25	mg/L	12.27.16 17:24	
o-Xylene	<0.00100	0.100	0.106	106	0.104	104	62-124	2	25	mg/L	12.27.16 17:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	98		100		97		66-120	%	12.27.16 17:24
4-Bromofluorobenzene	112		115		112		67-120	%	12.27.16 17:24

Analytical Method: BTEX by EPA 8021B

Seq Number: 3006881

MB Sample Id: 718037-1-BLK

Matrix: Water

LCS Sample Id: 718037-1-BKS

Prep Method: SW5030B

Date Prep: 01.03.17

LCSD Sample Id: 718037-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000480	0.100	0.100	100	0.0977	98	15-147	2	20	mg/L	01.03.17 16:43	
Toluene	0.000800	0.100	0.103	103	0.100	100	11-147	3	20	mg/L	01.03.17 16:43	
Ethylbenzene	<0.000616	0.100	0.103	103	0.0995	100	10-149	3	20	mg/L	01.03.17 16:43	
m,p-Xylenes	<0.000454	0.200	0.206	103	0.200	100	62-124	3	25	mg/L	01.03.17 16:43	
o-Xylene	<0.000270	0.100	0.104	104	0.101	101	62-124	3	25	mg/L	01.03.17 16:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	99		101		100		66-120	%	01.03.17 16:43
4-Bromofluorobenzene	97		103		102		67-120	%	01.03.17 16:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3006800

Parent Sample Id: 542898-001

Matrix: Water

MS Sample Id: 542898-001 S

Prep Method: SW5030B

Date Prep: 12.27.16

MSD Sample Id: 542898-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0992	99	0.0987	99	15-147	1	20	mg/L	12.27.16 19:39	
Toluene	<0.00100	0.100	0.101	101	0.101	101	11-147	0	20	mg/L	12.27.16 19:39	
Ethylbenzene	<0.00100	0.100	0.100	100	0.101	101	10-149	1	20	mg/L	12.27.16 19:39	
m,p-Xylenes	<0.00200	0.200	0.201	101	0.203	102	62-124	1	25	mg/L	12.27.16 19:39	
o-Xylene	<0.00100	0.100	0.101	101	0.102	102	62-124	1	25	mg/L	12.27.16 19:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	98		97		66-120	%	12.27.16 19:39
4-Bromofluorobenzene	113		113		67-120	%	12.27.16 19:39

Terracon Lubbock DCP Plant to Lea Station 6" #2

Analytical Method: BTEX by EPA 8021B

Seq Number: 3006881

Parent Sample Id: 542898-004

Matrix: Water

MS Sample Id: 542898-004 S

Prep Method: SW5030B

Date Prep: 01.03.17

MSD Sample Id: 542898-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	4.89	5.00	9.70	96	9.76	97	15-147	1	20	mg/L	01.03.17 18:58	
Toluene	1.95	5.00	6.87	98	6.92	99	11-147	1	20	mg/L	01.03.17 18:58	
Ethylbenzene	0.280	5.00	5.24	99	5.17	98	10-149	1	20	mg/L	01.03.17 18:58	
m,p-Xylenes	0.290	10.0	10.3	100	10.1	98	62-124	2	25	mg/L	01.03.17 18:58	
o-Xylene	0.170	5.00	5.18	100	5.09	98	62-124	2	25	mg/L	01.03.17 18:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	99		99		66-120	%	01.03.17 18:58
4-Bromofluorobenzene	100		100		67-120	%	01.03.17 18:58



Laboratory: Xenco Laboratories
Address: 1211 W. Florida Ave.
Midland, TX 79701
432-563-1800

Office Location Lubbock

Project Manager Joel Lowry

Sampler's Name Joel Lowry

Phone:

Contact: Joel Lowry

PO/SO #: SRS No. 2009-039

Sampler's Signature

ANALYSIS REQUESTED

LAB USE ONLY
DUE DATE:

TEMP OF COOLER
WHEN RECEIVED (°C)

Page 1 of 1

VOCs (EPA Method 8021B)

No. Type of Containers

40 ml VOA

End Depth

Start Depth

Identifying Marks of Sample(s)

542898-001 MW-2

002 MW-3

003 MW-4

004 MW-5

005 MW-6

006 MW-7

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Relinquished by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

24-Hour Rush

Received by (Signature)

Received by (Signature)

Received by (Signature)

Received by (Signature)

48-Hour Rush

Received by (Signature)

Received by (Signature)

Received by (Signature)

Received by (Signature)

Normal

Received by (Signature)

Received by (Signature)

Received by (Signature)

Received by (Signature)

Date: 12/22/16

Date: 4:15

Date:

Date:

Date:

Date:

Date:

Date:

Date:

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SL - Sludge

C - Charcoal tube

P/O - Plastic or other

L - Liquid

S - Soil
250 ml = Glass wide mouth

W - Water
A/G - Amber Glass 1L

WW - Wastewater
VOA - 40 ml vial

Lubbock Office ■ 5827 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

NOTES:

Please Email Results to

erin.loyd@terracon.com

joel.lowry@terracon.com

cibryant@paapl.com

C. Bryant

4.4/4.5

APPENDIX D

Table 3 – Historical Quarterly Groundwater Elevation and PSH Thickness Data

Table 4 – Historical Groundwater Analytical Summary - BTEX

Table 5 – Historical Groundwater Analytical Summary - PAHs

TABLE 3
2016 ANNUAL REPORT

HISTORIC QUARTERLY GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	7/1/2009	3,540.25	63.95	69.31	5.36	3,475.50
	12/10/2009	3,540.25	79.24	83.90	4.66	3,460.31
	3/11/2010	3,540.25	79.28	84.07	4.79	3,460.25
	5/27/2010	3,540.25	79.23	83.88	4.65	3,460.32
	8/26/2010	3,540.25	79.42	83.84	4.43	3,460.18
	10/29/2010	3,540.25	79.68	83.33	3.65	3,460.02
	3/24/2011	3,540.25	79.50	83.87	4.37	3,460.09
	5/26/2011	3,540.25	79.55	83.96	4.41	3,460.04
	8/17/2011	3,540.25	79.60	83.85	4.25	3,460.01
	11/29/2011	3,540.25	79.70	83.65	3.95	3,459.96
	2/3/2012	3,540.25	79.80	83.80	4.00	3,459.85
	5/1/2012	3,540.25	79.72	84.00	4.28	3,459.89
	9/6/2012	3,540.25	79.75	83.90	4.15	3,459.88
	11/9/2012	3,540.25	79.97	83.36	3.39	3,459.77
	2/13/2013	3,540.25	*	*	*	*
	5/8/2013	3,540.25	79.92	83.46	3.54	3,459.80
	8/5/2013	3,540.25	80.01	83.63	3.62	3,459.70
	9/25/2013	3,540.25	80.02	83.62	3.60	3,459.69
	11/13/2013	3,540.25	80.02	83.62	3.60	3,459.69
	2/14/2014	3,540.25	*	*	*	*
	5/8/2014	3,540.25	80.06	83.73	3.67	3,459.64
	8/5/2014	3,540.25	*	*	*	*
	11/7/2014	3,540.25	80.75	81.72	0.97	3,459.35
	2/19/2015	3,540.25	*	*	*	*
	5/7/2015	3,540.25	*	*	*	*
	8/5/2015	3,540.25	*	*	*	*
	12/9/2015	3,540.25	*	*	*	*
	2/8/2016	3,540.25	81.10	81.50	0.40	3,459.09
	5/3/2016	3,540.25	80.83	81.10	0.27	3,459.38
	11/1/2016	3,540.25	*	*	*	*
	12/22/2016	3,540.25	*	*	*	*
MW-2	7/1/2009	3,538.31	-	78.28	-	3,460.03
	12/10/2009	3,538.31	-	78.37	-	3,459.94
	3/11/2010	3,538.31	-	78.36	-	3,459.95
	5/27/2010	3,538.31	-	78.36	-	3,459.95
	8/26/2010	3,538.31	-	78.40	-	3,459.91
	10/29/2010	3,538.31	-	78.45	-	3,459.86
	3/24/2011	3,538.31	-	78.53	-	3,459.78
	5/26/2011	3,538.31	-	78.47	-	3,459.84
	8/17/2011	3,538.31	-	78.70	-	3,459.61

TABLE 3
2016 ANNUAL REPORT

HISTORIC QUARTERLY GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-2	11/29/2011	3,538.31	-	78.70	-	3,459.61
	2/3/2012	3,538.31	-	78.70	-	3,459.61
	5/1/2012	3,538.31	-	78.60	-	3,459.71
	8/29/2012	3,538.31	-	78.68	-	3,459.63
	11/9/2012	3,538.31	-	78.68	-	3,459.63
	2/13/2013	3,538.31	-	78.69	-	3,459.62
	5/8/2013	3,538.31	-	78.71	-	3,459.60
	8/5/2013	3,538.31	-	78.65	-	3,459.66
	9/25/2013	3,538.31	-	78.68	-	3,459.63
	11/13/2013	3,538.31	-	78.68	-	3,459.63
	2/14/2014	3,538.31	-	78.77	-	3,459.54
	5/8/2014	3,538.31	-	78.76	-	3,459.55
	8/5/2014	3,538.31	-	78.95	-	3,459.36
	11/7/2014	3,538.31	-	78.87	-	3,459.44
	2/19/2015	3,538.31	-	78.84	-	3,459.47
	5/7/2015	3,538.31	-	78.90	-	3,459.41
	8/5/2015	3,538.31	-	79.00	-	3,459.31
	12/9/2015	3,538.31	-	78.90	-	3,459.41
	2/10/2016	3,538.31	-	78.85	-	3,459.46
	5/3/2016	3,538.31	-	78.95	-	3,459.36
	11/1/2016	3,538.31	-	79.20	-	3,459.11
	12/22/2016	3,538.31	-	79.80	-	3,458.51
MW-3	7/1/2009	3,539.03	-	79.17	-	3,459.86
	12/10/2009	3,539.03	-	79.24	-	3,459.79
	3/11/2010	3,539.03	-	79.24	-	3,459.79
	5/27/2010	3,539.03	-	79.26	-	3,459.77
	8/26/2010	3,539.03	-	79.35	-	3,459.68
	10/29/2010	3,539.03	-	79.38	-	3,459.65
	3/24/2011	3,539.03	-	79.43	-	3,459.60
	5/26/2011	3,539.03	-	79.41	-	3,459.62
	8/17/2011	3,539.03	-	79.60	-	3,459.43
	11/29/2011	3,539.03	-	79.70	-	3,459.33
	2/3/2012	3,539.03	-	79.58	-	3,459.45
	5/1/2012	3,539.03	-	79.48	-	3,459.55
	8/29/2012	3,539.03	-	79.60	-	3,459.43
	11/9/2012	3,539.03	-	79.69	-	3,459.34
	2/13/2013	3,538.94	-	79.67	-	3,459.27
	5/8/2013	3,538.94	-	79.68	-	3,459.26
	8/5/2013	3,538.94	-	79.56	-	3,459.38
	9/25/2013	3,538.94	-	79.64	-	3,459.30

**TABLE 3
2016 ANNUAL REPORT**

**HISTORIC QUARTERLY GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-3	11/13/2013	3,538.94	-	79.58	-	3,459.36
	2/14/2014	3,538.94	-	79.76	-	3,459.18
	5/8/2014	3,538.94	-	79.74	-	3,459.20
	8/5/2014	3,538.94	-	79.92	-	3,459.02
	11/7/2014	3,538.94	-	79.84	-	3,459.10
	2/19/2015	3,538.94	-	79.80	-	3,459.14
	5/7/2015	3,538.94	-	79.50	-	3,459.44
	8/5/2015	3,538.94	-	79.83	-	3,459.11
	12/9/2015	3,538.94	-	79.83	-	3,459.11
	2/10/2016	3,538.94	-	79.80	-	3,459.14
	5/3/2016	3,538.94	-	79.90	-	3,459.04
	11/1/2016	3,538.94	-	79.77	-	3,459.17
	12/22/2016	3,538.94	-	80.02	-	3,458.92
MW-4	7/1/2009	3,539.66	-	80.07	-	3,459.59
	12/10/2009	3,539.66	-	80.14	-	3,459.52
	3/11/2010	3,539.66	-	80.15	-	3,459.51
	5/27/2010	3,539.66	-	80.17	-	3,459.49
	8/26/2010	3,539.66	-	80.30	-	3,459.36
	10/29/2010	3,539.66	-	80.26	-	3,459.40
	3/24/2011	3,539.66	-	80.36	-	3,459.30
	5/26/2011	3,539.66	-	80.31	-	3,459.35
	8/17/2011	3,539.66	-	80.55	-	3,459.11
	11/29/2011	3,539.66	-	80.55	-	3,459.11
	2/3/2012	3,539.66	-	80.55	-	3,459.11
	5/1/2012	3,539.66	-	80.40	-	3,459.26
	8/29/2012	3,539.66	-	80.55	-	3,459.11
	11/9/2012	3,539.66	-	80.51	-	3,459.15
	2/13/2013	3,539.67	-	80.51	-	3,459.16
	5/8/2013	3,539.67	-	80.51	-	3,459.16
	8/5/2013	3,539.67	-	80.49	-	3,459.18
	9/25/2013	3,539.67	-	80.50	-	3,459.17
	11/13/2013	3,539.67	-	80.50	-	3,459.17
	2/14/2014	3,539.67	-	80.61	-	3,459.06
	5/8/2014	3,539.67	-	80.64	-	3,459.03
	8/5/2014	3,539.67	-	80.81	-	3,458.86
	11/7/2014	3,539.67	-	80.78	-	3,458.89
	2/19/2015	3,539.67	-	80.71	-	3,458.96
	5/7/2015	3,539.67	-	82.70	-	3,456.97
	8/5/2015	3,539.67	-	80.86	-	3,458.81
	12/9/2015	3,539.67	-	80.77	-	3,458.90

TABLE 3
2016 ANNUAL REPORT

HISTORIC QUARTERLY GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-4	2/10/2016	3,539.67	-	80.75	-	3,458.92
	5/3/2016	3,539.67	-	80.80	-	3,458.87
	11/1/2016	3,539.67	-	80.86	-	3,458.81
	12/22/2016	3,539.67	-	80.93	-	3,458.74
MW-5	2/3/2012	3,539.55	-	80.30	-	3,459.25
	5/1/2012	3,539.55	-	80.15	-	3,459.40
	8/29/2012	3,539.55	-	80.79	-	3,458.76
	11/9/2012	3,539.55	-	80.27	-	3,459.28
	2/13/2013	3,539.55	-	80.28	-	3,459.27
	5/8/2013	3,539.55	-	80.28	-	3,459.27
	8/5/2013	3,539.55	-	80.26	-	3,459.29
	9/25/2013	3,539.55	-	80.27	-	3,459.28
	11/13/2013	3,539.55	-	80.29	-	3,459.26
	2/14/2014	3,539.55	-	80.41	-	3,459.14
	5/8/2014	3,539.55	-	80.38	-	3,459.17
	8/5/2014	3,539.55	-	80.60	-	3,458.95
	11/7/2014	3,539.55	-	80.51	-	3,459.04
	2/19/2015	3,539.55	-	80.44	-	3,459.11
	5/7/2015	3,539.55	-	85.00	-	3,454.55
	8/5/2015	3,539.55	-	80.69	-	3,458.86
	12/9/2015	3,539.55	-	80.44	-	3,459.11
	2/10/2016	3,539.55	-	80.45	-	3,459.10
	5/3/2016	3,539.55	-	80.57	-	3,458.98
	11/1/2016	3,539.55	-	80.64	-	3,458.91
	12/22/2016	3,539.55	-	80.66	-	3,458.89
MW-6	9/25/2013	3,539.22	-	80.10	-	3,459.12
	11/13/2013	3,539.22	-	80.10	-	3,459.12
	2/14/2014	3,539.22	-	80.08	-	3,459.14
	5/8/2014	3,539.22	-	80.07	-	3,459.15
	8/5/2014	3,539.22	-	80.26	-	3,458.96
	11/7/2014	3,539.22	-	80.16	-	3,459.06
	2/19/2015	3,539.22	-	80.18	-	3,459.04
	5/7/2015	3,539.22	-	80.40	-	3,458.82
	8/5/2015	3,539.22	-	80.31	-	3,458.91
	12/9/2015	3,539.22	-	80.20	-	3,459.02
	2/10/2016	3,539.22	-	80.20	-	3,459.02
	5/3/2016	3,539.22	-	80.26	-	3,458.96
	11/1/2016	3,539.22	-	80.34	-	3,458.88
	12/22/2016	3,539.22	-	80.39	-	3,458.83

**TABLE 3
2016 ANNUAL REPORT**

**HISTORIC QUARTERLY GROUNDWATER ELEVATION AND PSH THICKNESS DATA
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-7	9/25/2013	3,538.97	-	79.98	-	3,458.99
	11/13/2013	3,538.97	-	79.98	-	3,458.99
	2/14/2014	3,538.97	-	80.03	-	3,458.94
	5/8/2014	3,538.97	-	80.04	-	3,458.93
	8/5/2014	3,538.97	-	80.21	-	3,458.76
	11/7/2014	3,538.97	-	80.13	-	3,458.84
	2/19/2015	3,538.97	-	80.10	-	3,458.87
	5/7/2015	3,538.97	-	80.10	-	3,458.87
	8/5/2015	3,538.97	-	80.26	-	3,458.71
	12/9/2015	3,538.97	-	80.15	-	3,458.82
	2/10/2016	3,538.97	-	80.15	-	3,458.82
	5/3/2016	3,538.97	-	80.22	-	3,458.75
	11/1/2016	3,538.97	-	80.29	-	3,458.68
	12/22/2016	3,538.97	-	80.28	-	3,458.69

Elevations based on the North American Vertical Datum of 1988

- = Not applicable

* Indicates Monitor Well was not gauged due to the presence of a Mobile Dual Phase Extraction (MDPE) unit.

TABLE 4
2016 ANNUAL REPORT

HISTORICAL GROUNDWATER ANALYTICAL SUMMARY - BTEX
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021b						
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENES (mg/L)	TOTAL BTEX (mg/L)
MW-1	12/10/2009	15.08	12.29	0.79	1.776	0.569	2.345	30.51
MW-2	7/1/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.01
	12/10/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	3/11/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/27/2010	0.0014	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0014
	8/26/2010	0.0022	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0022
	10/29/2010	0.0012	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0012
	3/25/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/26/2011	0.0012	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0012
	8/17/2011	0.0026	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0026
	11/29/2011	0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0020
	2/3/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/1/2012	0.0036	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0036
	8/29/2012	0.0024	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0024
	11/9/2012	0.0050	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0050
	2/5/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2013	0.0079	0.0027	0.0026	0.0102	0.0065	0.0167	0.0298
	8/5/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/14/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/7/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/19/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/7/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	12/9/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	5/3/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/1/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
MW-3	7/1/2009	<0.005	<0.005	<0.005	<0.01	<0.005		<0.01
	12/10/2009	0.0069	0.0027	<0.0010	<0.0020	<0.0010		0.0096
	3/11/2010	0.0028	<0.0020	<0.0010	<0.0020	<0.0010		0.0028
	5/27/2010	0.0152	0.0048	<0.0010	<0.0020	<0.0010		0.0200
	8/26/2010	0.0026	0.0021	0.0012	0.0023	0.0010	0.0033	0.0092
	10/29/2010	0.0263	0.0107	<0.0010	<0.0020	<0.0010		0.0370
	3/25/2011	0.00792	0.00358	<0.0010	<0.0020	<0.0010		0.0115
	5/26/2011	0.00306	<0.0020	<0.0010	<0.0020	<0.0010		0.0031
	8/17/2011	0.00991	0.00253	<0.0010	<0.0020	<0.0010		0.0124
	11/29/2011	0.00296	<0.0020	<0.0010	<0.0020	<0.0010		0.0030
	2/3/2012	0.0099	0.0029	<0.0010	<0.0020	<0.0010		0.0127
	5/1/2012	0.0486	0.0213	0.0011	0.0028	0.0011	0.0038	0.0748
	8/29/2012	0.0164	0.0043	<0.0010	<0.0020	<0.0010		0.0207
	11/9/2012	0.0192	0.0029	<0.0010	<0.0020	<0.0010		0.0221
	2/5/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/14/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/7/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/23/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/7/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	12/9/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	5/3/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/1/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200

TABLE 4
2016 ANNUAL REPORT

HISTORICAL GROUNDWATER ANALYTICAL SUMMARY - BTEX
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

MW-4	7/1/2009	<0.005	<0.005	<0.005	<0.01	<0.005		<0.01
	12/10/2009	0.0015	<0.0020	<0.0010	<0.0020	<0.0010		0.0015
	3/11/2010	0.0047	0.0023	<0.0010	<0.0020	<0.0010		0.0070
	5/27/2010	0.0073	0.0031	<0.0010	<0.0020	<0.0010		0.0104
	8/26/2010	0.0017	<0.0020	<0.0010	<0.0020	<0.0010		0.0017
	10/29/2010	0.0525	0.0189	<0.0010	<0.0020	<0.0010		0.0714
	3/25/2011	0.0186	0.00802	<0.0010	<0.0020	<0.0010		0.0266
	5/26/2011	0.00885	0.00398	<0.0010	<0.0020	<0.0010		0.0128
	8/17/2011	0.0281	0.0121	<0.0010	<0.0020	<0.0010		0.0402
	11/29/2011	0.0112	0.00589	<0.0010	<0.0020	<0.0010		0.0171
	2/5/2013	0.0181	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0181
	5/8/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2013	0.0033	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0331
	11/13/2013	0.0014	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0014
	2/14/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2014	0.0036	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0036
	8/5/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/7/2014	0.0011	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0011
	2/23/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/7/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	12/9/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	5/3/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/1/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
MW-5	3/25/2011	0.122	0.0676	<0.0050	<0.0020	<0.0050	<0.0020	0.1896
	5/26/2011	0.216	0.0933	0.0012	0.0957	0.0065	0.1022	0.327
	8/17/2011	0.276	0.0697	0.0052	0.0105	0.0045	0.0150	0.366
	11/29/2011	0.245	0.0742	0.0101	0.0132	0.0043	0.0175	0.347
	2/3/2012	0.513	0.0978	<0.0010	<0.0020	<0.0010	<0.0020	0.611
	5/1/2012	2.38	<0.250	<0.500	<0.250	<0.250	<0.250	2.38
	8/29/2012	3.39	0.0932	0.0386	0.0278	0.0165	0.0443	3.57
	11/9/2012	3.58	0.209	<0.0250	<0.0500	<0.0250	0.0000	3.79
	2/5/2013	2.35	<0.0400	0.0302	<0.0400	<0.0200	<0.0400	2.38
	5/8/2013	6.50	0.242	0.132	0.138	<0.0500	0.1380	7.01
	8/5/2013	0.011	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.011
	11/13/2013	1.38	<0.0020	0.0242	<0.0020	<0.0010	<0.0020	1.40
	2/14/2014	2.64	<0.0200	0.0337	<0.0200	<0.0100	<0.0200	<0.0200
	5/8/2014	0.8950	0.0262	0.0090	0.0172	0.0063	0.0235	0.9540
	8/5/2014	3.41	0.0902	0.0708	0.0508	<0.0020	0.0508	3.62
	11/19/2014	5.11	0.3910	0.2390	0.1190	0.0678	0.1870	5.93
	2/23/2015	3.64	0.4580	0.1350	0.0662	0.0376	0.1040	4.34
	5/7/2015	7.54	1.44	0.2470	0.3100	0.1700	0.4800	9.71
	8/5/2015	0.253	0.0679	0.0098	0.0085	0.0053	0.0138	0.344
	12/9/2015	19.6	9.33	1.01	1.17	0.6030	1.77	31.7
	2/10/2016	8.04	1.79	0.276	0.289	1.81	0.470	10.6
	5/3/2016	2.42	0.631	0.102	0.120	0.0628	0.183	3.34
	11/1/2016	7.42	2.09	0.393	0.546	0.271	0.817	10.7
	12/22/2016	4.89	1.95	0.280	0.290	0.170	0.460	7.58

TABLE 4
2016 ANNUAL REPORT

HISTORICAL GROUNDWATER ANALYTICAL SUMMARY - BTEX
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2009-039
NMOCD REFERENCE #: 1RP-2136
TERRACON PROJECT #: AR167321

MW-6	9/25/2013	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050	<0.0100	<0.0100
	11/13/2013	0.0047	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0047
	2/14/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2014	0.0013	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0013
	8/5/2014	0.0019	0.0064	<0.0010	<0.0020	<0.0010	<0.0020	0.0083
	11/7/2014	0.0042	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0042
	2/19/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/7/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	12/9/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	5/3/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/1/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.000480	<0.000512	<0.000616	<0.000454	<0.000270	<0.000454	<0.000512
MW-7	9/25/2013	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050	<0.0100	<0.0100
	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/14/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/8/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/7/2014	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/23/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	5/7/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	8/5/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	12/9/2015	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	2/10/2016	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	5/3/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	11/1/2016	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
	12/22/2016	<0.000480	<0.000512	<0.000616	<0.000454	<0.000270	<0.000454	<0.000512
NMOCD CRITERIA								
		0.01	0.75	0.75	TOTAL XYLENES 0.62			

TABLE 5
2016 ANNUAL REPORT

HISTORICAL GROUNDWATER ANALYTICAL SUMMARY - POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹
DCP PLANT TO LEA STATION 6-INCH #2
PLAINS SRS #: 2009-039
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1RP-2136
TERRACON PROJECT #: AR167321

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	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	12/10/2009	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100			<0.100	<0.100	
MW-2	7/1/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-3	7/1/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-3	12/16/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-3	11/9/2012	<0.00035	<0.00033	<0.00016	<0.00024	<0.00019	<0.00036	<0.00028	<0.00049	<0.00022	<0.00019	<0.00024	<0.00030	<0.00032	<0.00031	<0.00048	<0.00031	<0.00027	<0.00027
MW-4	7/1/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-4	12/16/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-4	11/9/2012	<0.00037	<0.00034	<0.00016	<0.00025	<0.00020	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	<0.00025	<0.00031	<0.00034	<0.00032	<0.00049	<0.00032	<0.00028	<0.00028
MW-5	3/25/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
MW-5	11/9/2012	<0.00037	<0.00034	<0.00016	<0.00025	<0.00020	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	<0.00025	<0.00031	<0.00034	<0.00032	<0.00049	<0.00032	<0.00028	<0.00028
MW-5	12/23/2013	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	0.00054	<0.000049	<0.000049
MW-5	5/8/2014	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			<0.000050	<0.000050
MW-6	5/8/2014	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			<0.000050	<0.000050
MW-7	5/8/2014	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			<0.000050	<0.000050
Maximum Contaminant Levels for NM WQCC Drinking Water Standards Sections 1-101.UU and 3-103A.		NA	NA	0.001	0.0001	0.0007	0.001	NA	0.001	0.0002	0.0003	0.001	0.001	0.0004	0.03		0.001	0.001	

PAH¹=Polynuclear aromatic hydrocarbon concentrations analyzed in accordance with EPA SW846-8270C and 3510

APPENDIX E

Release Notification and Corrective Action (Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact	Jason Henry
Address	2530 Hwy 214 - Denver City, Tx 79323	Telephone No.	(575) 441-1099
Facility Name	DCP Plant to Lea Station 6-inch #2	Facility Type	Pipeline

Surface Owner	NM SLO	Mineral Owner		Lease No.	30-025-06283
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LOCATION OF RELEASE

Closest Facility

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	30	20S	37E					Lea

Latitude N 32.5316667° Longitude W 103.2911111°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	25 bbls	Volume Recovered	0 bbls
Source of Release	6" Steel Pipeline	Date and Hour of Occurrence	02/12/2009	Date and Hour of Discovery	02/12/2009 12:30
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Larry Johnson (revised release volume on 02/25/2009)		
By Whom?	Jason Henry	Date and Hour	02/25/2009 @ 14:00		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

MAR 23 2009

HOBBSOCD

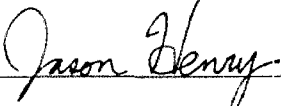
Describe Cause of Problem and Remedial Action Taken.*

External corrosion of 6" inch pipeline caused a release of crude oil. A clamp was installed on the pipeline to mitigate the release. Throughput for the subject line is 660 bbls/day and the operating pressure of the pipeline is 45 psi. The depth of the pipeline at the release point is approximately 2' bgs. The H2S concentration in the crude is less than 10 ppm and the gravity of the crude is 65.

Describe Area Affected and Cleanup Action Taken.*

The released crude resulted in a surface stain that measured approximately 10' x 12'. The impacted area will be remediated per applicable guidelines.

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

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Jason Henry	Approved by District Supervisor:		
Title: Remediation Coordinator	Approval Date:	Expiration Date:	
E-mail Address: jhenry@paalp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 03/23/2009 Phone: (575) 441-1099	LRP-2136		

Attach Additional Sheets If Necessary

APPENDIX F

CD of the 2016 Annual Groundwater Monitoring Report