AP - 96

ANNUAL MONITORING REPORT

YEAR(S): 2010

PLAINS
ALL AMERICAN

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2011 APR -1 A 12:52

March 30, 2011

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

Re: Plains All American – 2010 Annual Monitoring Reports
4 Sites in Lea County, New Mexico
1 Site in Eddy County, New Mexico

Dear Mr. Hansen:

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

Lovington Gathering WTI	1RP-838	Section 06, T17S, R37E, Lea County
Red Byrd #1	1R-0085	Section 01, T20S, R36E, Lea County
DCP Plant to Lea Sta. 6" #2	1R-2136	Section 31, T20S, R37E, Lea County
DCP Plant to Lea Sta. 6" Sec 31	1R-2166	Section 31, T20S, R37E, Lea County
Ballard Grayburg 5-Inch	2R-0053	Section 10, T18S, R29E, Eddy County

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

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

Sincerely,

Jason Henry

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM
Enclosures

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

2010
ANNUAL MONITORING REPORT

LOVINGTON GATHERING WTI
Unit Letter "H" (SENE), Section 6, Township 17 South, Range 37 East
Latitude 32° 51' 56.0" North, Longitude 103° 17' 07.2" West
Lea County, New Mexico
Plains SRS Number: 2006-0142
NMOCD Reference Number: 1RP-838

Prepared for:

PLAINS

Plains Marketing, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

March 2011

Ben J. Arguijo
Project Manager

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Pipeline, LP (Plains), is pleased to submit this *Annual Monitoring Report* in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2010 only. For reference, a "Site Location Map" is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2010 to assess the levels and extent of dissolved-phase constituents and Phase-Separated Hydrocarbon (PSH). The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is Unit Letter "H" (SENE), Section 6, Township 17 South, Range 37 East. The geographic coordinates of the release site are 32° 51' 56.0" North latitude and 103° 17' 07.2" West longitude.

On April 21, 2006, Basin responded to a pipeline release on behalf of Plains to repair the pipeline and excavate the impacted soil. The Lovington Gathering WTI Pipeline was repaired utilizing a pipeline clamp, and the visually stained soil was excavated and placed on plastic sheeting to mitigate any further hydrocarbon impact to the underlying soil. Approximately twelve (12) barrels of crude oil was released from the pipeline, and eight (8) barrels were recovered, resulting in a net loss of four (4) barrels of crude oil. The excavated area was fenced in and is characterized by a Plains pipeline right-of-way adjacent to an idled Plains pump station. The release occurred in a pasture containing various oil and gas production facilities. The release resulted in a visibly stained surface area covering approximately thirty (30) feet in length by twenty (27) feet in width. Excavation activities conducted during the initial response and subsequent remediation of the site covered an area approximately thirty (30) feet in length by twenty-seven (27) feet in width, and ranged from approximately five (5) to six (6) feet in depth. Excavated soil was placed on a six (6)-mil ploy-liner for future remedial action. Utilizing olfactory, visual, and photo-ionization detector (PID) technology, it was determined that Volatile Organic Compounds (VOC's) remained in the sidewalls and floor of the excavation.

In July 2006, a soil investigation was conducted to further delineate the horizontal and vertical extent of the on-site hydrocarbon impact. Eleven (11) soil borings were advanced to a depth of thirty (30) to seventy-five (75) feet below ground surface (bgs). Based on the laboratory results of the soil samples collected during advancement of the soil borings, three (3) groundwater monitor wells (MW-1, MW-2, and MW-3) were installed to evaluate the status of the groundwater.

Based on the laboratory results from the initial groundwater sampling event (October 5, 2006), four (4) additional monitor wells were installed in November 2006. During the installation of the groundwater monitor wells (MW-1 through MW-7), there was no visual evidence of PSH in any of the collected soil samples. Laboratory analytical results of the selected soil samples did not indicate benzene, toluene, ethylbenzene, and total xylenes (BTEX) or total petroleum hydrocarbon (TPH) concentrations above the appropriate laboratory method detection limit (MDL), with the exception of soil samples collected from monitor well MW-3, which exhibited a TPH concentration of 2,080 mg/Kg and 121 mg/Kg, at fifty-five (55) and seventy-five (75) feet bgs, respectively.

Laboratory analytical results of groundwater sampling at monitor well MW-7 indicated additional monitor wells were required to fully delineate the down-gradient boundary of the dissolved-phase plume. On February 7, 2007, monitor well MW-8 was installed down-gradient of monitor well MW-7. Laboratory analytical results of soil samples collected during the installation of monitor well MW-8 indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL and the NMOCD regulatory standard of 10 mg/Kg and 50 mg/Kg for benzene and BTEX, respectively. Laboratory analytical results indicate TPH concentrations were less than the laboratory MDL and NMOCD regulatory standard of 100 mg/Kg for soil samples collected at ten (10) and twenty-five (25) feet bgs. Soil samples collected at fifty (50) and seventy-five (75) feet bgs exhibited a TPH concentration of 14 mg/Kg (below NMOCD standards) and 101 mg/Kg, respectively.

On August 13, 2007, monitor well MW-9 was installed to further delineate the down-gradient boundary of the dissolved-phase plume. Laboratory analytical results of the soil samples collected during the installation of monitor well MW-9 indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL and NMOCD regulatory standard in the five (5) laboratory submitted soil samples.

On October 28, 2009, monitor well MW-10 was installed to further delineate the down-gradient boundary of the dissolved-phase plume. Laboratory analytical results of soil samples collected during the installation of monitor well MW-10 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in the seven (7) laboratory submitted soil samples.

Currently, there are ten (10) groundwater monitoring wells on-site: MW-1 which is up-gradient of the release site; MW-4 and MW-5, which are cross-gradient; and MW-2, MW-3, and MW-6 through MW-9, which are down-gradient of the release point.

FIELD ACTIVITIES

Groundwater Recovery Efforts

Basin began manual, bi-weekly recovery of hydrocarbon-impacted groundwater from MW-9 in November 2009 to control the down-gradient migration of the dissolved-phase plume. All recovered fluids are disposed of at an NMOCD- approved disposal facility near Monument, New Mexico.

Groundwater Monitoring

The on-site monitor wells were gauged and sampled on March 4 (1Q2010), May 25 (2Q2010), August 30 (3Q2010), and November 11, 2010 (4Q2010). During these quarterly sampling events, the monitoring wells were purged of a minimum of three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge, and samples were obtained using disposable Teflon bailers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer-mounted polystyrene tank and disposed of at an NMOCD-approved disposal facility near Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the 2010 quarterly sampling events, are depicted in Figures 2A through 2D. The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, November 11, 2010) indicates a general gradient of approximately 0.0052 feet/foot to the southeast as measured between groundwater monitor wells MW-1 and MW-9.

On November 11, 2010, the corrected groundwater elevation ranged between 3,721.43 and 3,723.60 feet above mean sea level in monitor wells MW-9 and MW-5, respectively. The "2010 Groundwater Elevation Data" is provided as Table 1.

No PSH was detected in any of the on-site monitor wells during the 2010 reporting period.

LABORATORY RESULTS

Groundwater samples collected from the monitor wells during the quarterly sampling events (1Q2010, 2Q2010, 3Q2010, and 4Q2010) were delivered to Xenco Laboratories in Odessa, Texas, for determination of BTEX constituent concentrations by EPA Method SW846-8021b. A summary of benzene and BTEX constituent concentrations is presented in Table 2, "2010 Concentrations of Benzene & BTEX in Groundwater". Laboratory analytical reports are provided as Appendix A. "Groundwater Concentration" maps are provided as Figures 3A through 3D.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

Monitor well MW-1

Laboratory analytical results indicate benzene and BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-2

Laboratory analytical results indicated benzene concentrations ranged from 0.0023 mg/L in 2Q2010 to 0.0406 mg/L in 3Q2010. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2010 and 2Q2010 to 0.091 mg/L in 4Q2010. Benzene concentrations exceeded NMOCD regulatory standards in 3Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-3

Laboratory analytical results indicated benzene concentrations ranged from 0.0011 mg/L in 1Q2010 to 0.0109 mg/L in 2Q2010. Toluene concentrations ranged from less than the laboratory MDL in 1Q2010 and 4Q2010 to 0.0036 mg/L in 3Q2010. Ethylbenzene concentrations were less than the laboratory MDL during all four quarters of the reporting period. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2010 to 0.093 mg/L in 3Q2010. Benzene concentrations exceeded NMOCD regulatory standards in 2Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-4

Laboratory analytical results indicate benzene and BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-5

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2010, 3Q2010, and 4Q2010 to 0.0014 mg/L in 2Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Benzene and BTEX constituent concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-6

Laboratory analytical results indicated benzene concentrations ranged from 0.0053 mg/L in 3Q2010 to 0.0082 mg/L in 4Q2010. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2010, 2Q2010, and 3Q2010 to 0.0035 mg/L in 4Q2010. Benzene and BTEX constituent concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-7

Laboratory analytical results indicate benzene and BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-8

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2010, 3Q2010, and 4Q2010 to 0.0012 mg/L in 4Q2010. Toluene and total xylene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Ethylbenzene concentrations ranged from less than the laboratory MDL in 4Q2010 to 0.0344 mg/L in 3Q2010. Benzene and BTEX constituent concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-9

Laboratory analytical results indicated benzene concentrations ranged from 0.01921 mg/L in 1Q2010 to 0.01259 mg/L in 3Q2010. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Total xylene concentrations ranged from 0.0027 mg/L in 1Q2010 to 0.0344 mg/L in 3Q2010. Benzene concentrations exceeded NMOCD regulatory standards in all four quarters of the reporting period. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor Well MW-10

Laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL in 1Q2010, 2Q2010, and 3Q2010 to 0.035 mg/L in 4Q2010. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2010, 2Q2010, and 3Q2010 to 0.035 mg/L in 4Q2010. Benzene concentrations exceeded NMOCD regulatory standards in 4Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

SUMMARY

Currently, there are ten groundwater monitoring wells (MW-1 through MW-10) on-site. Based on the depth of hydrocarbon impact at this site, the NMOCD requested quarterly groundwater sampling events be conducted at all monitoring wells. No PSH was detected in any of the site monitor wells during the 2010 reporting period.

The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, November 11, 2010) indicates a general gradient of approximately 0.0052 feet/foot to the southeast as measured between groundwater monitor wells MW-1 and MW-9. However, the natural gradient

of the site appears to have been substantially affected by the use of a large-capacity irrigation well approximately one hundred and forty (140) feet down-gradient of MW-10 on property adjacent to the release site.

Laboratory analytical results obtained during the 4Q2010 groundwater sampling event on November 11, 2010, indicate benzene and BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards for monitor wells MW-1, MW-4, MW-5, MW-7, and MW- 8. Laboratory analytical results indicate benzene concentrations were above the NMOCD regulatory standard for groundwater monitor wells MW-9 and MW-10, at 0.0265 mg/L and 0.035 mg/L, respectively. However, toluene, ethylbenzene, and total xylene concentrations were less than the NMOCD regulatory standard during all four quarters of the reporting period.

ANTICIPATED ACTIONS

Quarterly monitoring and groundwater sampling of monitor wells MW-1 through MW-10 will continue in the reporting year 2011.

Pursuant to the *Amendment to Stage 2 Abatement Plan*, dated August 2010, bi-weekly recovery of hydrocarbon-impacted groundwater from MW-9 to control the down-gradient migration of the dissolved-phase plume will continue throughout the 2011 monitoring period. Recovery efforts may be shifted to focus on MW-10, which is down-gradient from MW-9, should laboratory analytical results indicate continued down-gradient migration of the plume. Evidence suggests that this migration may be attributable to the use of a large-capacity irrigation well located down-gradient from MW-10 on property adjacent to the release site.

A 2011 *Annual Monitoring Report* will be submitted to the NMOCD by April 1, 2012.

LIMITATIONS

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

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

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

DISTRIBUTION

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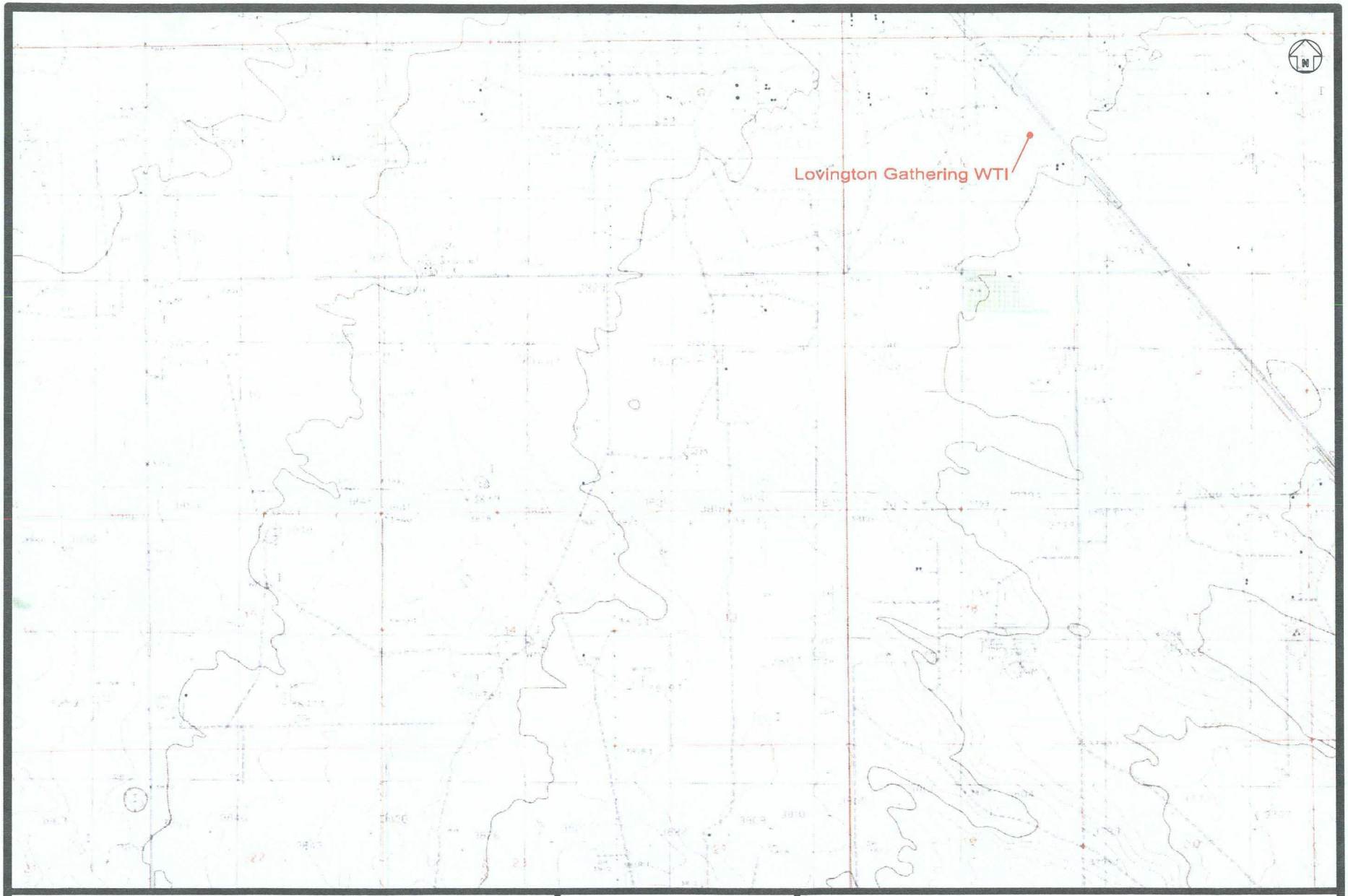
bjarguijo@basinenv.com

Copy Number:_____

Figures



3000 1500 0 1500 3000

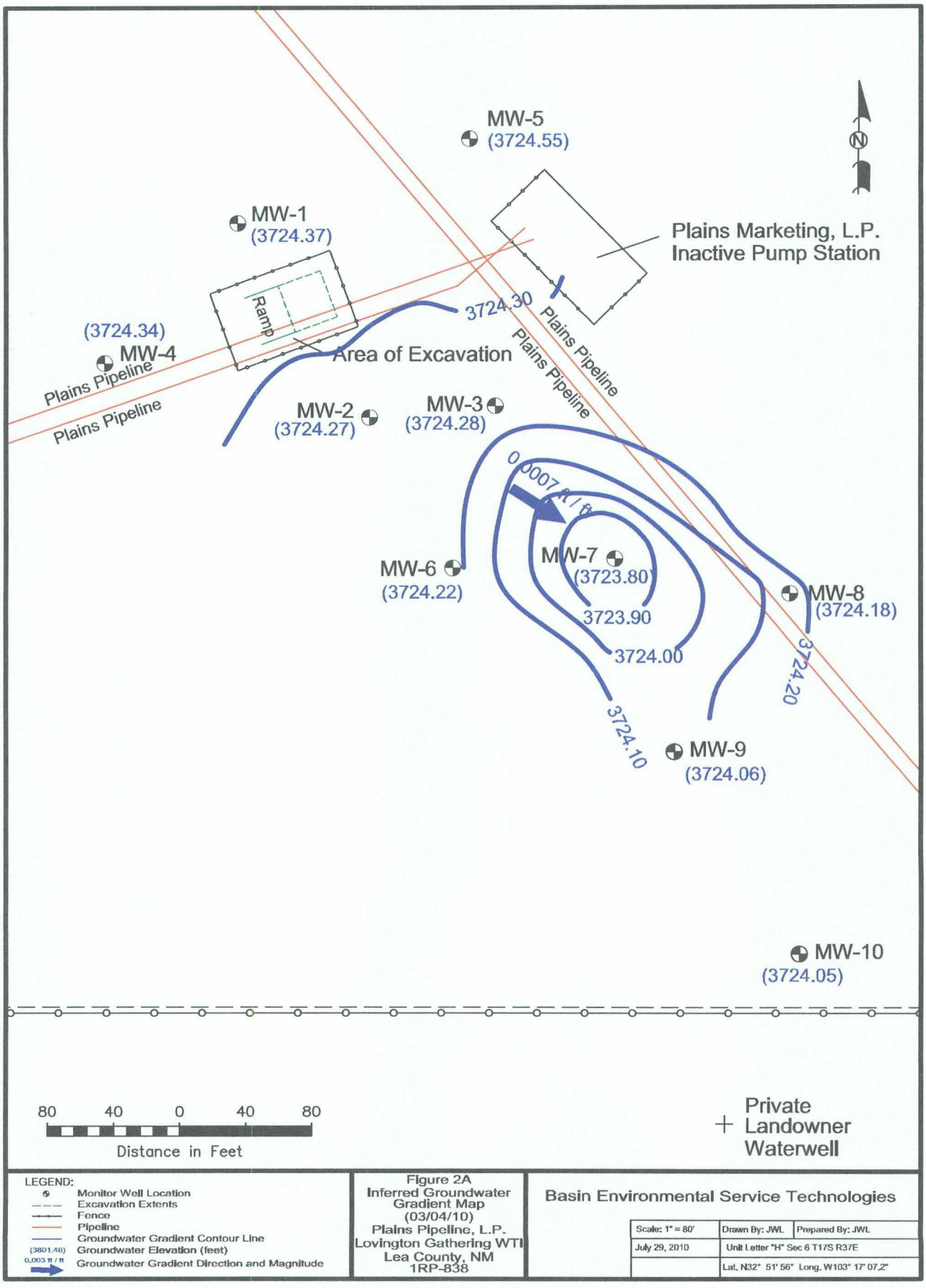
Distance in Feet

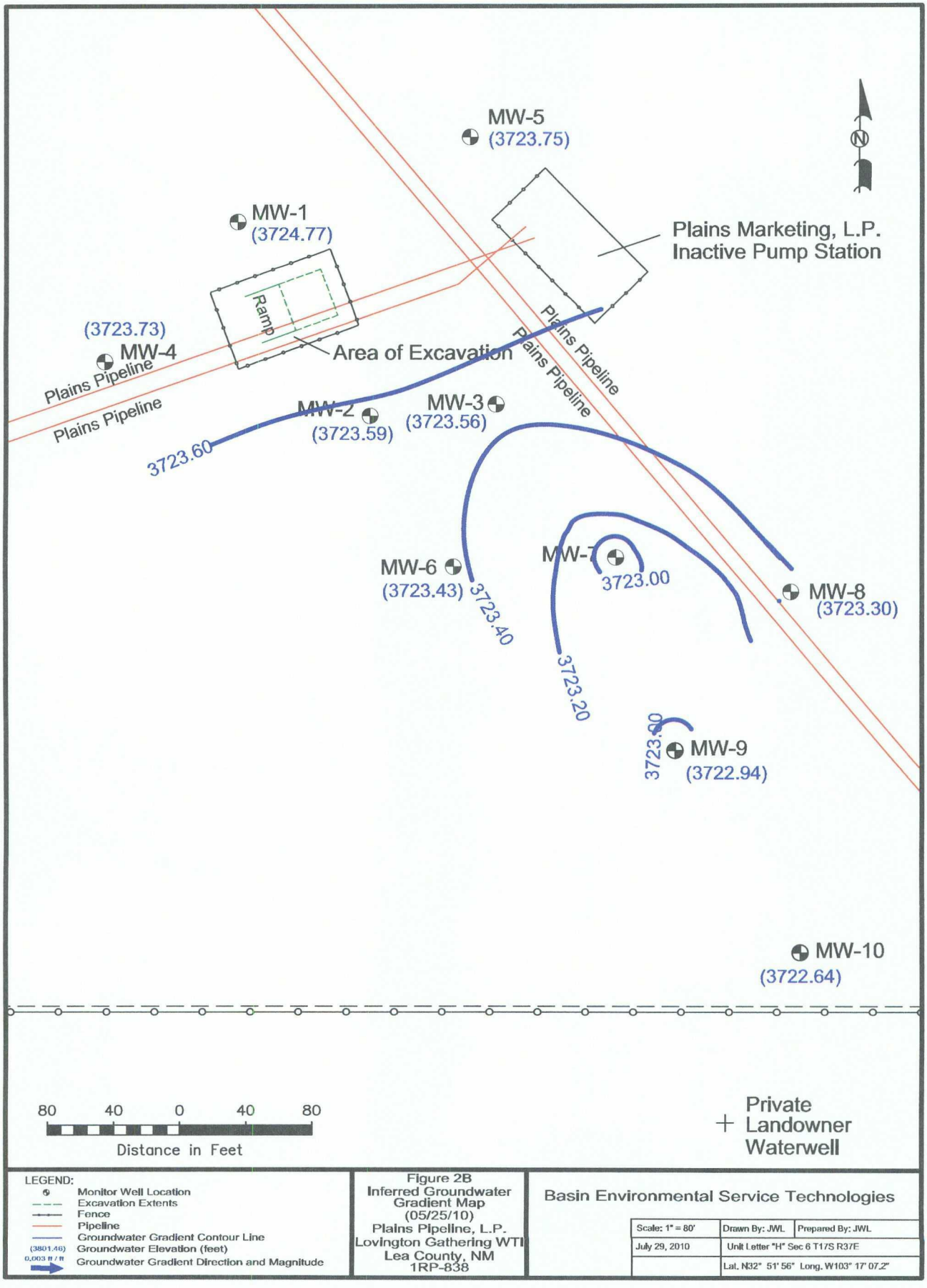
Unit Letter "H", Section 6, Township 17 South, Range 37 East

Figure 1
Site Location Map
Lovington Gathering WTI
Plains Marketing, L.P.
Lea County, New Mexico
1RP-838

Basin Environmental Services

Prep By: CDS	Checked By: CDS
December 22, 2009	Scale 1"=3000'


MW-5
(3724.55)
MW-1
(3724.37)
Plains Marketing, L.P.
Inactive Pump Station
Ramp
3724.30
Plains Pipeline
Plains Pipeline
(3724.34)
MW-4
Plains Pipeline
Plains Pipeline
Area of Excavation
MW-2
(3724.27)
MW-3
(3724.28)
0.0007 ft / ft
MW-6
(3724.22)
MW-7
(3723.80)
3723.90
3724.00
MW-8
(3724.18)
3724.20
3724.10
MW-9
(3724.06)
MW-10
(3724.05)
80 40 0 40 80
Distance in Feet
Private
Landowner
Waterwell
LEGEND:
Monitor Well Location
Excavation Extents
Fence
Pipeline
Groundwater Gradient Contour Line
(3801.46) Groundwater Elevation (feet)
0.003 ft / ft Groundwater Gradient Direction and Magnitude
Figure 2A
Inferred Groundwater Gradient Map
(03/04/10)
Plains Pipeline, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838
Basin Environmental Service Technologies
Scale: 1" = 80'
Drawn By: JWL
Prepared By: JWL
July 29, 2010
Unit Letter "H" Sec 6 T17S R37E
Lat. N32° 51' 56" Long. W103° 17' 07.2"


MW-5
(3723.75)
MW-1
(3724.77)
Plains Marketing, L.P.
Inactive Pump Station
Ramp
Area of Excavation
(3723.73)
MW-4
Plains Pipeline
Plains Pipeline
Plains Pipeline
Plains Pipeline
MW-2
(3723.59)
MW-3
(3723.56)
3723.60
MW-6
(3723.43)
3723.40
MW-7
3723.00
MW-8
(3723.30)
3723.20
3723.00
MW-9
(3722.94)
MW-10
(3722.64)
80 40 0 40 80
Distance in Feet
Private
Landowner
Waterwell
LEGEND:
Monitor Well Location
Excavation Extents
Fence
Pipeline
Groundwater Gradient Contour Line
(3801.46) Groundwater Elevation (feet)
0.003 ft / ft Groundwater Gradient Direction and Magnitude
Figure 2B
Inferred Groundwater Gradient Map
(05/25/10)
Plains Pipeline, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838
Basin Environmental Service Technologies
Scale: 1" = 80'
Drawn By: JWL
Prepared By: JWL
July 29, 2010
Unit Letter "H" Sec 6 T17S R37E
Lat. N32° 51' 56" Long. W103° 17' 07.2"

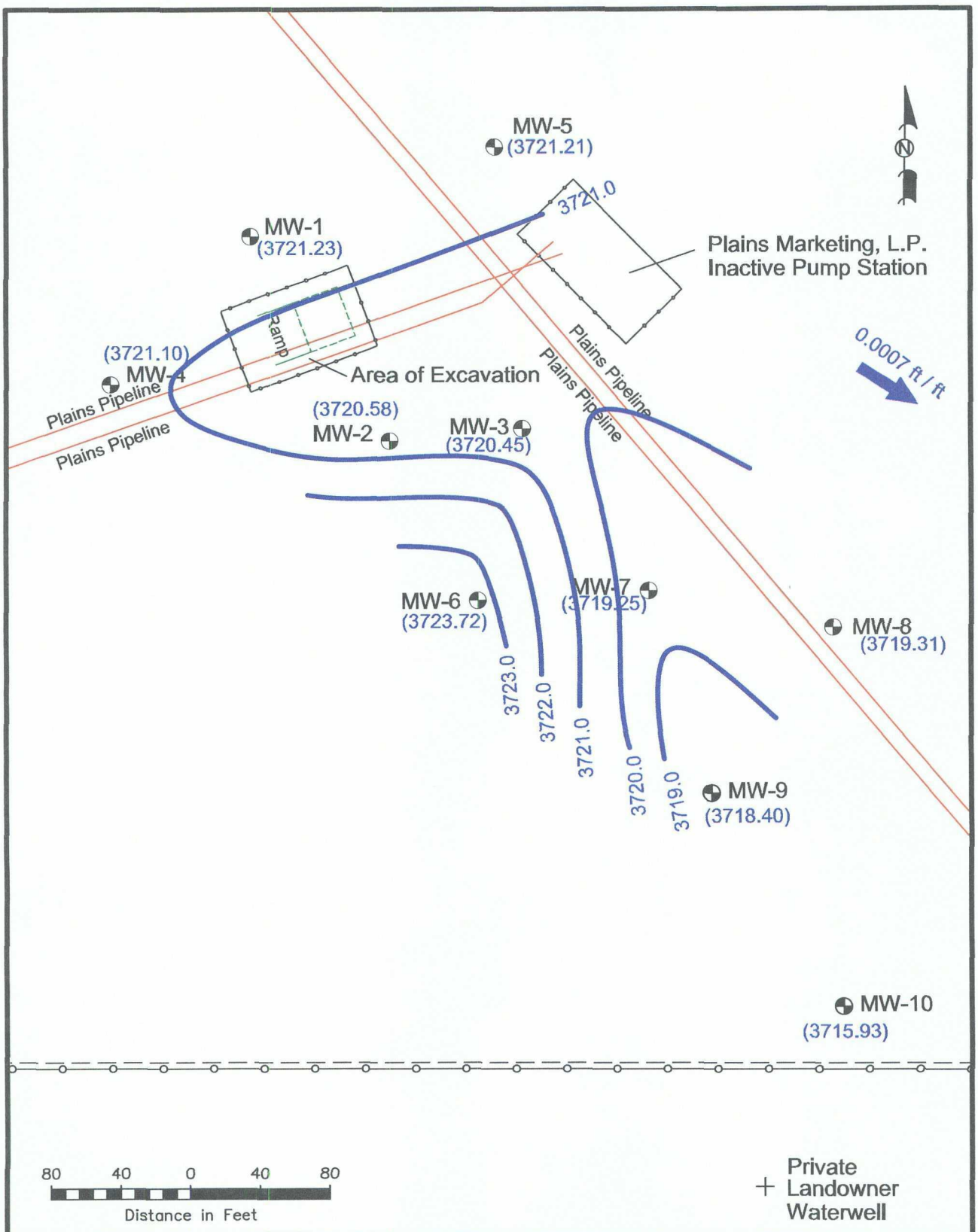


Figure 2C
Inferred Groundwater Gradient Map
(08/30/10)
Plains Pipeline, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Service Technologies

Scale: 1" = 80'	Drawn By: JWL	Prepared By: JWL
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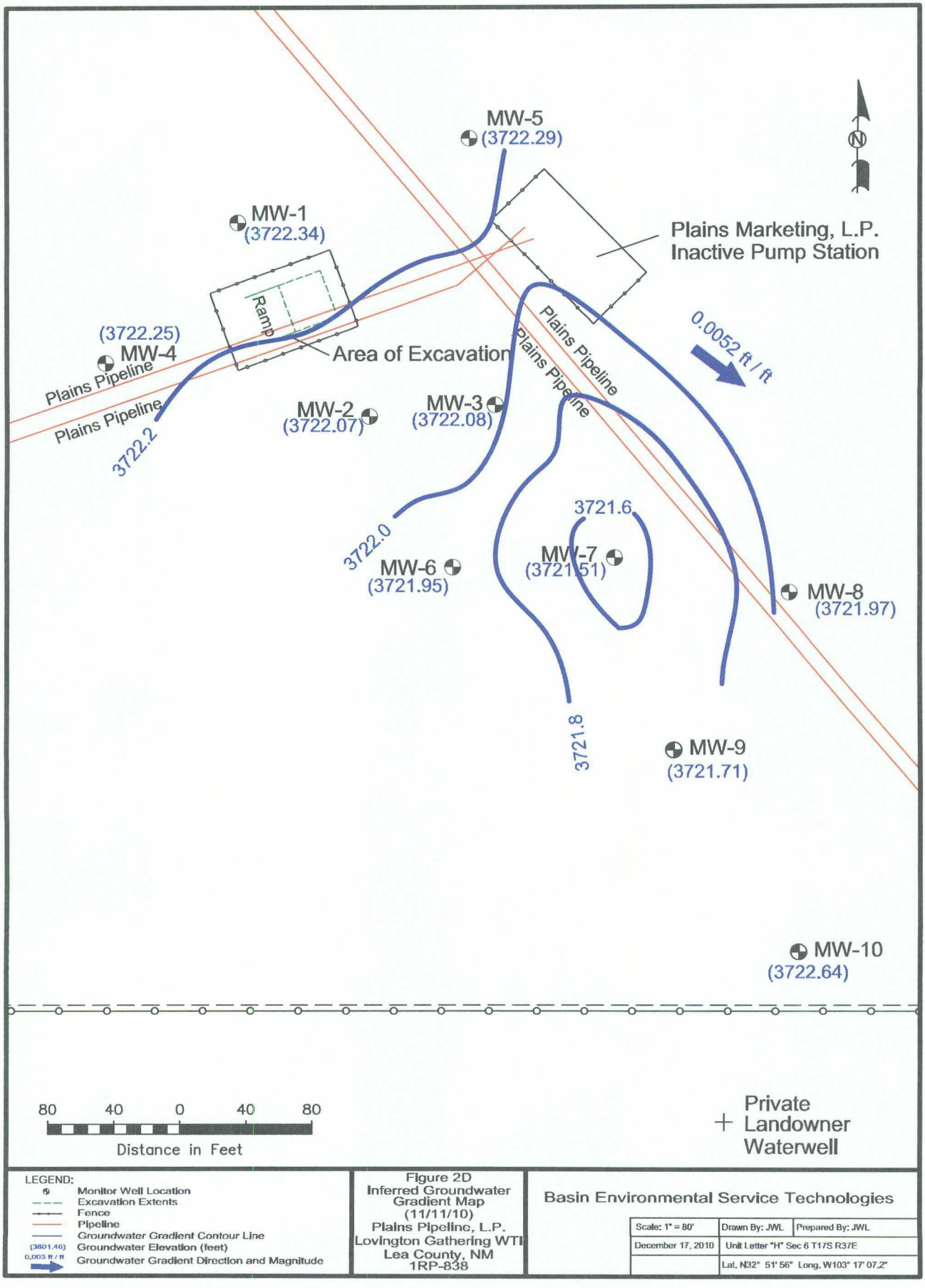

Figure 2D
Inferred Groundwater Gradient Map
(11/11/10)
Plains Pipeline, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Service Technologies

Scale: 1" = 80'	Drawn By: JWL	Prepared By: JWL
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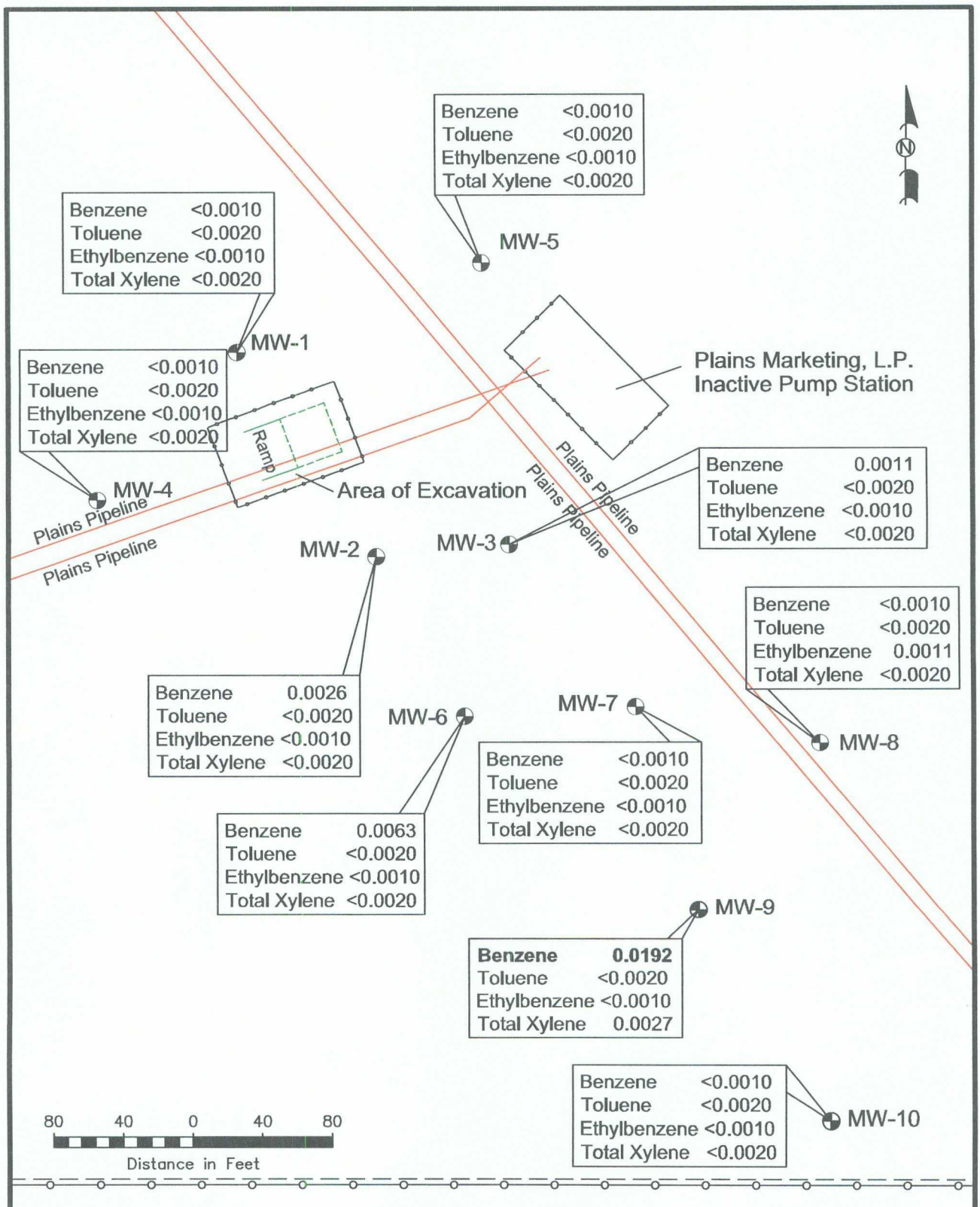

LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3A
Groundwater Concentration
03/04/10
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838

Basin Environmental Service Technologies

Scale: 1" = 80'	Drawn By: JWL	Prepared By: JWL
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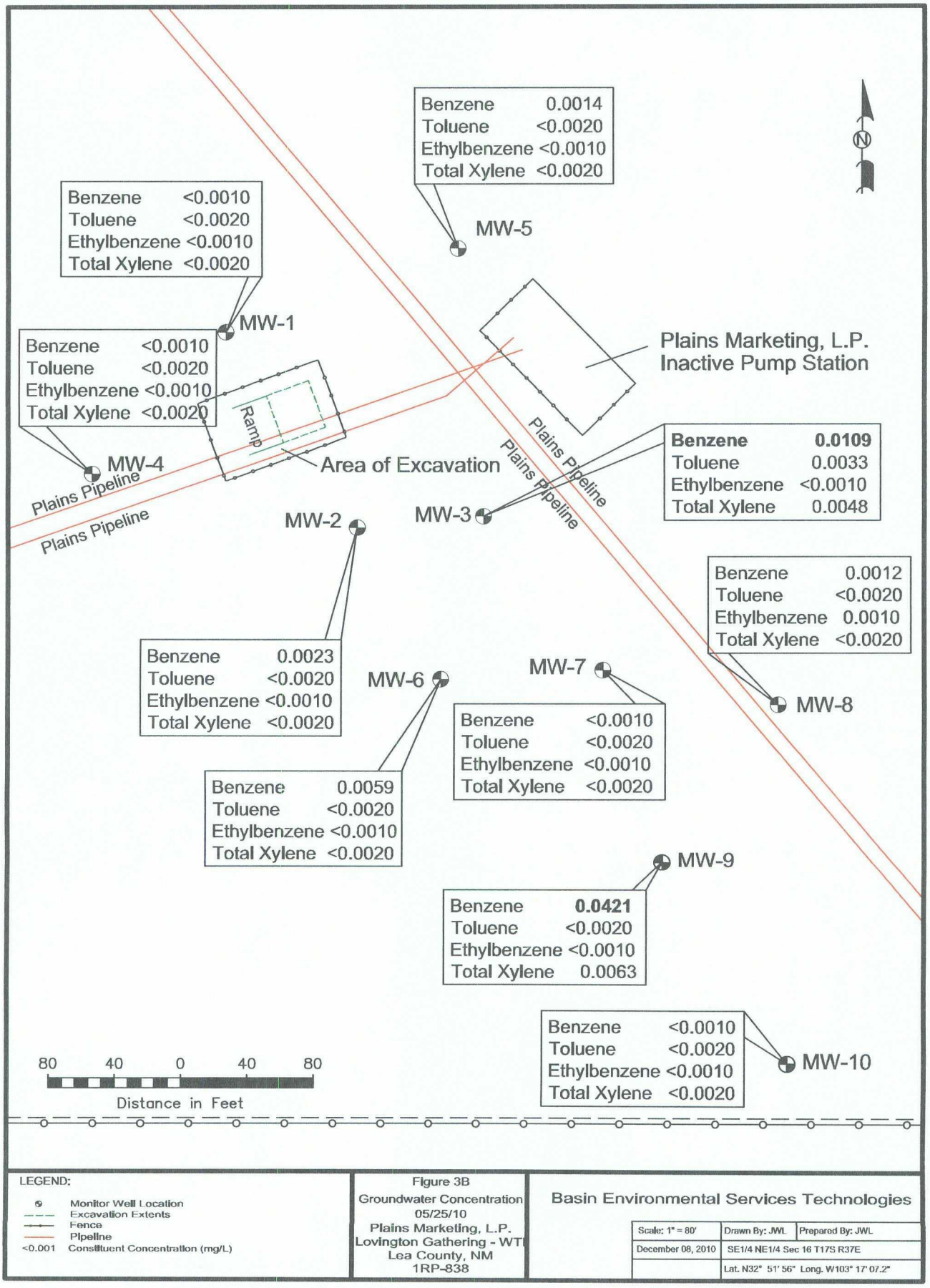
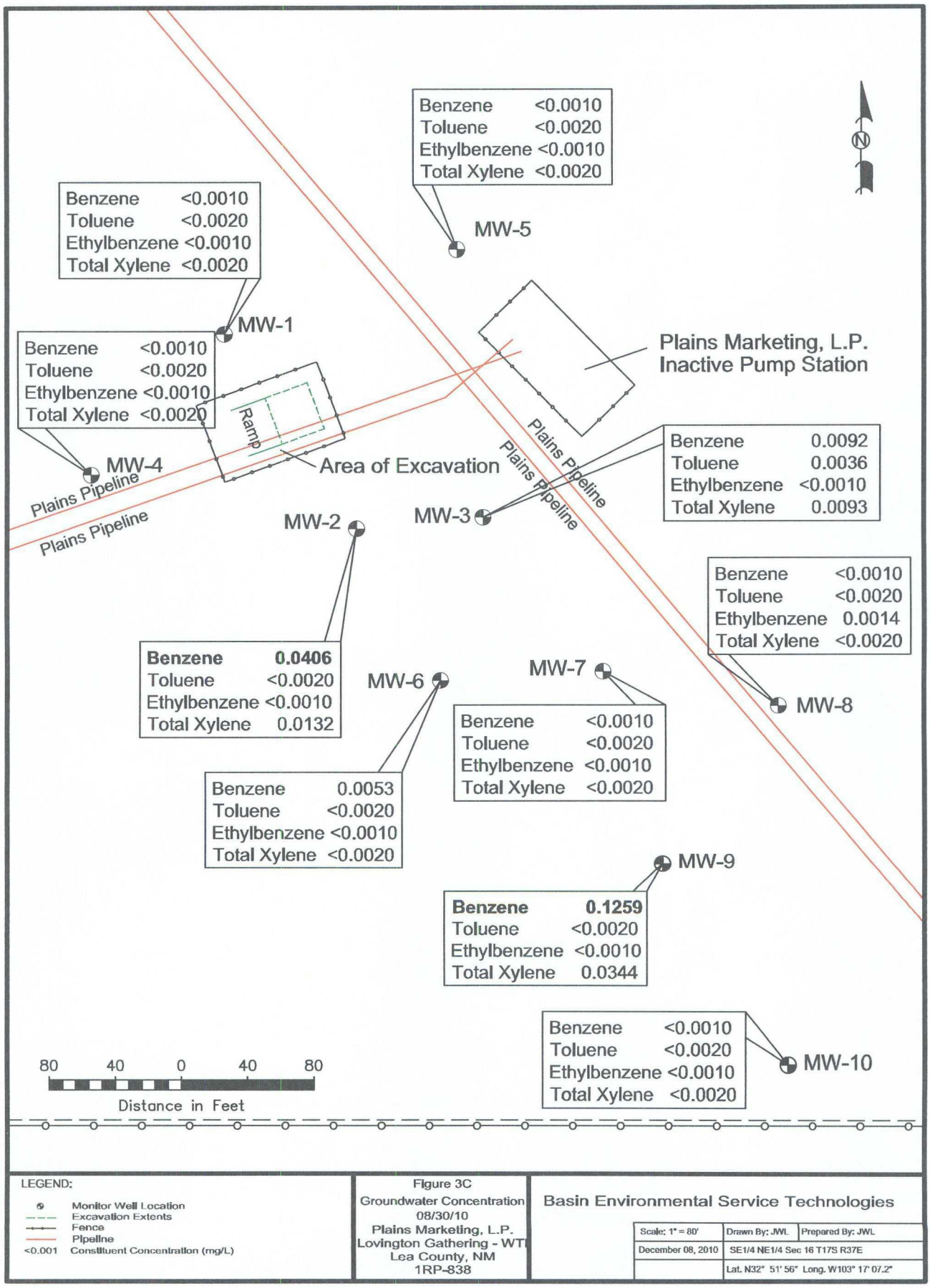
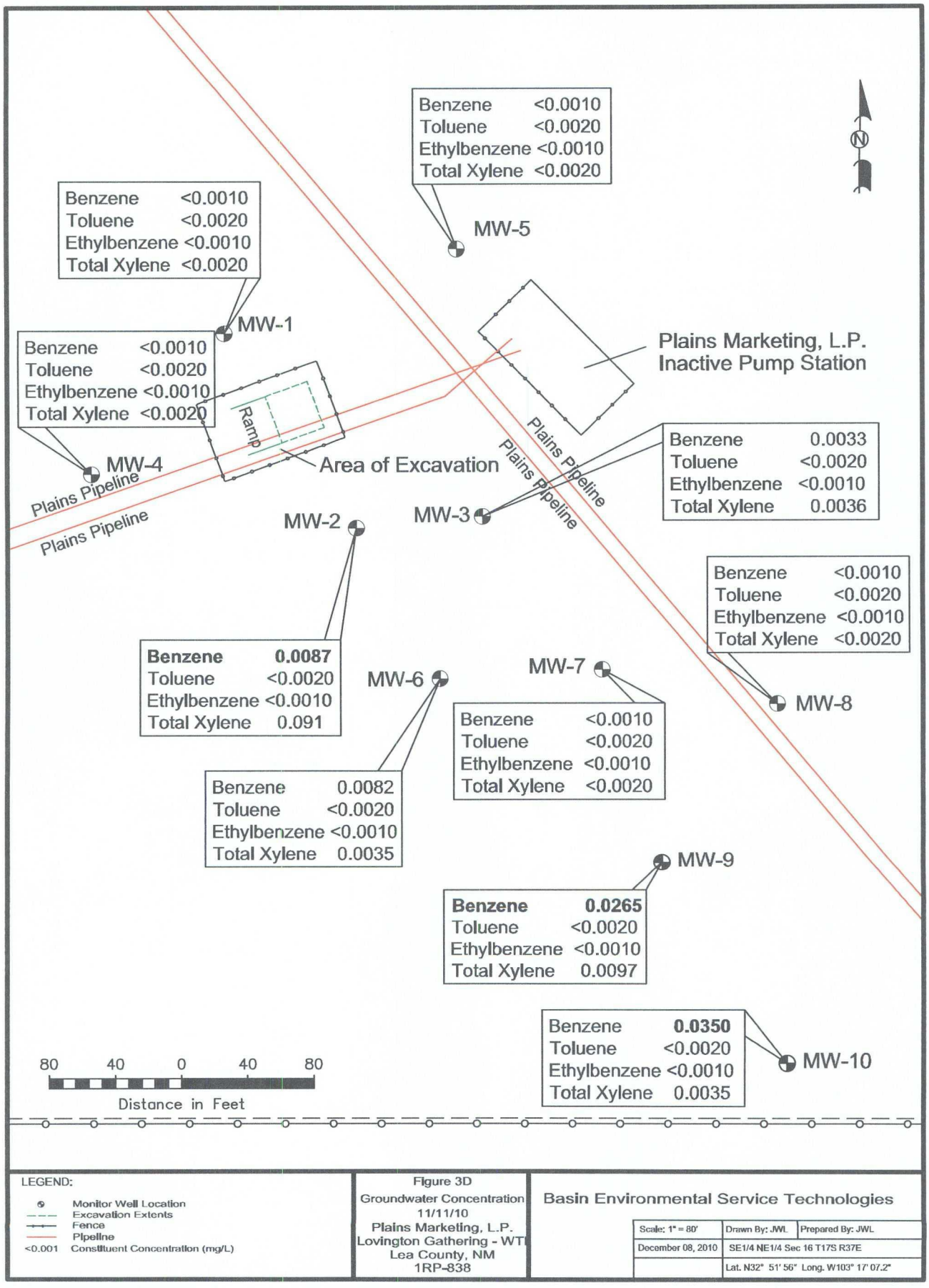

Benzene 0.0014
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-5
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-1
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-4
Plains Marketing, L.P.
Inactive Pump Station
Ramp
Area of Excavation
Plains Pipeline
Plains Pipeline
Plains Pipeline
Plains Pipeline
Benzene 0.0109
Toluene 0.0033
Ethylbenzene <0.0010
Total Xylene 0.0048
MW-3
MW-2
Benzene 0.0012
Toluene <0.0020
Ethylbenzene 0.0010
Total Xylene <0.0020
MW-8
Benzene 0.0023
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-6
MW-7
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
Benzene 0.0059
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-9
Benzene 0.0421
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene 0.0063
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-10
80 40 0 40 80
Distance in Feet
LEGEND:
Monitor Well Location
Excavation Extents
Fence
Pipeline
<0.001 Constituent Concentration (mg/L)
Figure 3B
Groundwater Concentration
05/25/10
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838
Basin Environmental Services Technologies
Scale: 1" = 80'
Drawn By: JWL
Prepared By: JWL
December 08, 2010
SE1/4 NE1/4 Sec 16 T17S R37E
Lat. N32° 51' 56" Long. W103° 17' 07.2"


Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-5
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-1
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-4
Ramp
Area of Excavation
Plains Marketing, L.P.
Inactive Pump Station
Plains Pipeline
Plains Pipeline
Plains Pipeline
Plains Pipeline
Benzene 0.0092
Toluene 0.0036
Ethylbenzene <0.0010
Total Xylene 0.0093
MW-3
MW-2
Benzene <0.0010
Toluene <0.0020
Ethylbenzene 0.0014
Total Xylene <0.0020
MW-8
Benzene 0.0406
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene 0.0132
MW-6
MW-7
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
Benzene 0.0053
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-9
Benzene 0.1259
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene 0.0344
Benzene <0.0010
Toluene <0.0020
Ethylbenzene <0.0010
Total Xylene <0.0020
MW-10
80 40 0 40 80
Distance in Feet
N
LEGEND:
Monitor Well Location
Excavation Extents
Fence
Pipeline
<0.001 Constituent Concentration (mg/L)
Figure 3C
Groundwater Concentration
08/30/10
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838
Basin Environmental Service Technologies
Scale: 1" = 80'
Drawn By: JWL
Prepared By: JWL
December 08, 2010
SE1/4 NE1/4 Sec 16 T17S R37E
Lat. N32° 51' 56" Long. W103° 17' 07.2"



LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3D
Groundwater Concentration
11/11/10
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838

Basin Environmental Service Technologies

Scale: 1" = 80'	Drawn By: JWL	Prepared By: JWL
December 08, 2010	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

Tables

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	03/04/10	3,806.60	-	82.23	0.00	3,724.37
	05/25/10	3,806.60	-	82.83	0.00	3,723.77
	08/30/10	3,806.60	-	85.37	0.00	3,721.23
	11/11/10	3,806.60	-	83.00	0.00	3,723.60
MW-2	03/04/10	3,806.31	-	82.04	0.00	3,724.27
	05/25/10	3,806.31	-	82.72	0.00	3,723.59
	08/30/10	3,806.31	-	85.73	0.00	3,720.58
	11/11/10	3,806.31	-	82.90	0.00	3,723.41
MW-3	03/04/10	3,806.19	-	81.91	0.00	3,724.28
	05/25/10	3,806.19	-	82.63	0.00	3,723.56
	08/30/10	3,806.19	-	85.74	0.00	3,720.45
	11/11/10	3,806.19	-	82.76	0.00	3,723.43
MW-4	03/04/10	3,806.67	-	82.33	0.00	3,724.34
	05/25/10	3,806.67	-	82.94	0.00	3,723.73
	08/30/10	3,806.67	-	85.57	0.00	3,721.10
	11/11/10	3,806.67	-	83.14	0.00	3,723.53
MW-5	03/04/10	3,806.30	-	81.95	0.00	3,724.35
	05/25/10	3,806.30	-	82.55	0.00	3,723.75
	08/30/10	3,806.30	-	85.09	0.00	3,721.21
	11/11/10	3,806.30	-	82.70	0.00	3,723.60
MW-6	03/04/10	3,806.08	-	81.86	0.00	3,724.22
	05/25/10	3,806.08	-	82.65	0.00	3,723.43
	08/30/10	3,806.08	-	92.36	0.00	3,713.72
	11/11/10	3,806.08	-	82.75	0.00	3,723.33
MW-7	03/04/10	3,806.05	-	82.25	0.00	3,723.80
	05/25/10	3,806.05	-	83.10	0.00	3,722.95
	08/30/10	3,806.05	-	86.80	0.00	3,719.25
	11/11/10	3,806.05	-	83.16	0.00	3,722.89

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-8	03/04/10	3,805.89	-	81.71	0.00	3,724.18
	05/25/10	3,805.89	-	82.59	0.00	3,723.30
	08/30/10	3,805.89	-	86.58	0.00	3,719.31
	11/11/10	3,805.89	-	82.59	0.00	3,723.30
MW-9	03/04/10	3,806.02	-	81.96	0.00	3,724.06
	05/25/10	3,806.02	-	83.08	0.00	3,722.94
	08/30/10	3,806.02	-	87.62	0.00	3,718.40
	11/11/10	3,806.02	-	84.59	0.00	3,721.43
MW-10	03/04/10	3,806.08	-	82.03	0.00	3,724.05
	05/25/10	3,806.08	-	83.44	0.00	3,722.64
	08/30/10	3,806.08	-	90.15	0.00	3,715.93
	11/11/10	3,806.08	-	83.44	0.00	3,722.64

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF. # 1RP-838

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 BTEX (mg/L)
MW-1	03/04/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/25/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	08/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	11/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
MW-2	03/04/10	0.0026	<0.0020	<0.0010	<0.0020	<0.0010	0.0026
	05/25/10	0.0023	<0.0020	<0.0010	<0.0020	<0.0010	0.0023
	08/30/10	**0.0406**	<0.0020	<0.0010	0.0132	<0.0010	0.0538
	11/11/10	0.0087	<0.0020	<0.0010	0.091	<0.0010	0.0997
MW-3	03/04/10	0.0011	<0.0020	<0.0010	<0.0020	<0.0010	0.0011
	05/25/10	**0.0109**	0.0033	<0.0010	0.0048	0.0027	0.0217
	08/30/10	0.0092	0.0036	<0.0010	0.006	0.0033	0.0221
	11/11/10	0.0033	<0.0020	<0.0010	0.0023	0.0013	0.0069
MW-4	03/04/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/25/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	08/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	11/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
MW-5	03/04/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/25/10	0.0014	<0.0020	<0.0010	<0.0020	<0.0010	0.0014
	08/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	11/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
MW-6	03/04/10	0.0063	<0.0020	<0.0010	<0.0020	<0.0010	0.0063
	05/25/10	0.0059	<0.0020	<0.0010	<0.0020	<0.0010	0.0059
	08/30/10	0.0053	<0.0020	<0.0010	<0.0020	<0.0010	0.0053
	11/11/10	0.0082	<0.0020	<0.0010	0.0035	<0.0010	0.0117
MW-7	03/04/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/25/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	08/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	11/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
MW-8	03/04/10	<0.0010	<0.0020	0.0011	<0.0020	<0.0010	0.0011
	05/25/10	0.0012	<0.0020	0.001	<0.0020	<0.0010	0.0022
	08/30/10	<0.0010	<0.0020	0.0014	<0.0020	<0.0010	0.0014
	11/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF. # 1RP-838

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 BTEX (mg/L)
MW-9	03/04/10	**0.0192**	<0.0020	<0.0010	0.0027	<0.0010	0.0219
	05/25/10	**0.0421**	<0.0020	<0.0010	0.0063	<0.0010	0.0484
	08/30/10	**0.1259**	<0.0020	<0.0010	0.0344	<0.0010	0.1603
	11/11/10	**0.0265**	<0.0020	<0.0010	0.0097	<0.0010	0.0362
MW-10	03/04/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/25/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	08/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	11/11/10	**0.035**	<0.0020	<0.0010	0.0035	<0.0010	0.0385
NMOCD CRITERIA		0.01	0.75	0.75	TOTAL XYLENES 0.62		

Appendices

Appendix A

Laboratory Analytical Reports

Analytical Report 364844

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lovington Gathering WTI

2006-142

15-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

15-MAR-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **364844**
Lovington Gathering WTI
Project Address: Lea County, NM

Jason Henry:

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 364844. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 364844 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,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 364844

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10	W	Mar-04-10 08:30		364844-001
MW-5	W	Mar-04-10 09:15		364844-002
MW-4	W	Mar-04-10 10:00		364844-003
MW-1	W	Mar-04-10 10:45		364844-004
MW-6	W	Mar-04-10 11:30		364844-005
MW-3	W	Mar-04-10 12:15		364844-006
MW-7	W	Mar-04-10 13:00		364844-007
MW-8	W	Mar-04-10 13:45		364844-008
MW-2	W	Mar-04-10 14:30		364844-009
MW-9	W	Mar-04-10 15:30		364844-010

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lovington Gathering WTI

Project ID:	*2006-142*	*Report Date:*	*15-MAR-10*
Work Order Number:	*364844*	*Date Received:*	*03/09/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-798019 BTEX by EPA 8021
SW8021BM

Batch 798019, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 364819-001 S,364819-001 SD,364844-003,364844-004,364844-005,364844-007,364844-009,364844-010,364844-002,364844-001,364844-006.

Certificate of Analysis Summary 364844

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Tue Mar-09-10 08:25 am
Report Date: 15-MAR-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	364844-001		364844-002		364844-003		364844-004		364844-005		364844-006	
	Field Id:	*MW-10*		*MW-5*		*MW-4*		*MW-1*		*MW-6*		*MW-3*	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Mar-04-10 08:30		Mar-04-10 09:15		Mar-04-10 10:00		Mar-04-10 10:45		Mar-04-10 11:30		Mar-04-10 12:15	
BTEX by EPA 8021	*Extracted:*	Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15	
	Analyzed:	Mar-11-10 13:46		Mar-11-10 15:08		Mar-11-10 15:29		Mar-11-10 15:50		Mar-11-10 16:11		Mar-11-10 16:31	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0063	0.0010	0.0011	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0063	0.0010	0.0011	0.0010

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.

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 364844

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Tue Mar-09-10 08:25 am
Report Date: 15-MAR-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	364844-007		364844-008		364844-009		364844-010			
	Field Id:	MW-7		MW-8		MW-2		MW-9			
	Depth:										
	Matrix:	WATER		WATER		WATER		WATER			
	Sampled:	Mar-04-10 13:00		Mar-04-10 13:45		Mar-04-10 14:30		Mar-04-10 15:30			
BTEX by EPA 8021	*Extracted:*	Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15		Mar-10-10 08:15			
	Analyzed:	Mar-11-10 16:52		Mar-11-10 17:13		Mar-11-10 17:34		Mar-11-10 17:54			
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL		
Benzene		ND	0.0010	ND	0.0010	0.0026	0.0010	0.0192	0.0010		
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020		
Ethylbenzene		ND	0.0010	0.0011	0.0010	ND	0.0010	ND	0.0010		
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	0.0027	0.0020		
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010		
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	0.0027	0.0010		
Total BTEX		ND	0.0010	0.0011	0.0010	0.0026	0.0010	0.0219	0.0010		

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.

Brent Barron, II
Odessa Laboratory Manager

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 364844,

Project ID: 2006-142

Lab Batch #: 798019 **Sample:** 552928-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 08:55

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 798019 **Sample:** 552928-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 09:15

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0262	0.0300	87	80-120	

Lab Batch #: 798019 **Sample:** 552928-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 10:18

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0273	0.0300	91	80-120	

Lab Batch #: 798019 **Sample:** 364844-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 13:46

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0210	0.0300	70	80-120	*

Lab Batch #: 798019 **Sample:** 364844-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 15:08

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0187	0.0300	62	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: Lovington Gathering WTI

Work Orders : 364844, **Project ID:** 2006-142

Lab Batch #: 798019 **Sample:** 364844-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 15:29

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0218	0.0300	73	80-120	*

Lab Batch #: 798019 **Sample:** 364844-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 15:50

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0188	0.0300	63	80-120	*

Lab Batch #: 798019 **Sample:** 364844-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 16:11

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0205	0.0300	68	80-120	*

Lab Batch #: 798019 **Sample:** 364844-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 16:31

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0191	0.0300	64	80-120	*

Lab Batch #: 798019 **Sample:** 364844-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 16:52

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0210	0.0300	70	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: Lovington Gathering WTI

Work Orders : 364844,

Project ID: 2006-142

Lab Batch #: 798019 **Sample:** 364844-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 17:13

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0244	0.0300	81	80-120	

Lab Batch #: 798019 **Sample:** 364844-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 17:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0179	0.0300	60	80-120	*

Lab Batch #: 798019 **Sample:** 364844-010 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 17:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0204	0.0300	68	80-120	*

Lab Batch #: 798019 **Sample:** 364819-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 18:36

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0202	0.0300	67	80-120	*

Lab Batch #: 798019 **Sample:** 364819-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/11/10 18:56

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0211	0.0300	70	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: Lovington Gathering WTI

Work Order #: 364844
Project ID: 2006-142
Analyst: ASA
Date Prepared: 03/10/2010
Date Analyzed: 03/11/2010
Lab Batch ID: 798019
Sample: 552928-1-BKS
Batch #: 1
Matrix: Water
Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	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
Benzene	ND	0.1000	0.0924	92	0.1	0.0880	88	5	70-125	25	
Toluene	ND	0.1000	0.0920	92	0.1	0.0860	86	7	70-125	25	
Ethylbenzene	ND	0.1000	0.0924	92	0.1	0.0883	88	5	71-129	25	
m,p-Xylenes	ND	0.2000	0.1846	92	0.2	0.1769	88	4	70-131	25	
o-Xylene	ND	0.1000	0.0905	91	0.1	0.0849	85	6	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: Lovington Gathering WTI

Work Order #: 364844 **Project ID:** 2006-142

Lab Batch ID: 798019 **QC- Sample ID:** 364819-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 03/11/2010 **Date Prepared:** 03/10/2010 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	ND	0.2000	0.1476	74	0.2000	0.1640	82	11	70-125	25	
Toluene	ND	0.2000	0.1455	73	0.2000	0.1642	82	12	70-125	25	
Ethylbenzene	ND	0.2000	0.1477	74	0.2000	0.1709	85	15	71-129	25	
m,p-Xylenes	ND	0.4000	0.2933	73	0.4000	0.3413	85	15	70-131	25	
o-Xylene	ND	0.2000	0.1442	72	0.2000	0.1660	83	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley PAGE 01 OF 01 Project Name: Lovington Gathering WTI

Company Name: Basin Environmental Service Technologies, LLC Project #: 2006-142

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - J. Henry

Telephone No: (505) 441-2244 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 364844

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers 1 Liter amber, 2 VOA's	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge; GW = Groundwater S = Soil/Solid; NP = Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	PAH 8270			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-10			3/4/2010	0830		3	X		X						GW									X							X
02	MW-5			3/4/2010	0915		3	X		X						GW									X							X
03	MW-4			3/4/2010	1000		3	X		X						GW									X							X
04	MW-1			3/4/2010	1045		3	X		X						GW									X							X
05	MW-6			3/4/2010	1130		3	X		X						GW									X							X
06	MW-3			3/4/2010	1215		3	X		X						GW									X							X
07	MW-7			3/4/2010	1300		3	X		X						GW									X							X
08	MW-8			3/4/2010	1345		3	X		X						GW									X							X
09	MW-2			3/4/2010	1430		3	X		X						GW									X							X
10	MW-9			3/4/2010	1530		3	X		X						GW									X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	3/9/10	0825			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date: 3/9/10	Time: 08:25

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on containers? Y N
Custody seals on container(s) labels/seals Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Environmental

Date/ Time: 3/9/10 8:25

Lab ID #: 304844

Initials: AS

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	( ) °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: #4) labels as seals

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 374687

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lovington Gathering WTI

2006-142

03-JUN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

03-JUN-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **374687**
Lovington Gathering WTI
Project Address: Lea County, NM

Jason Henry:

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 374687. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 374687 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,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 374687

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5	W	May-25-10 09:00		374687-001
MW-1	W	May-25-10 09:45		374687-002
MW-4	W	May-25-10 10:45		374687-003
MW-10	W	May-25-10 11:30		374687-004
MW-7	W	May-25-10 12:45		374687-005
MW-8	W	May-25-10 13:00		374687-006
MW-3	W	May-25-10 14:15		374687-007
MW-2	W	May-25-10 15:00		374687-008
MW-6	W	May-25-10 15:30		374687-009
MW-9	W	May-25-10 16:15		374687-010

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lovington Gathering WTI

Project ID:	*2006-142*	*Report Date:*	*03-JUN-10*
Work Order Number:	*374687*	*Date Received:*	*05/27/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-809029 BTEX by EPA 8021
SW8021BM

Batch 809029, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 374687-006,374687-008,374687-007.

Certificate of Analysis Summary 374687

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu May-27-10 01:40 pm
Report Date: 03-JUN-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	374687-001		374687-002		374687-003		374687-004		374687-005		374687-006	
	Field Id:	MW-5		MW-1		MW-4		MW-10		MW-7		MW-8	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	May-25-10 09:00		May-25-10 09:45		May-25-10 10:45		May-25-10 11:30		May-25-10 12:45		May-25-10 13:00	
BTEX by EPA 8021	*Extracted:*	Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45	
	Analyzed:	Jun-02-10 19:54		Jun-02-10 20:17		Jun-02-10 20:39		Jun-02-10 21:01		Jun-02-10 21:24		Jun-02-10 21:46	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		0.0014	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0012	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0010	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		0.0014	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0022	0.0010

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.

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 374687

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu May-27-10 01:40 pm
Report Date: 03-JUN-10
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	374687-007		374687-008		374687-009		374687-010			
	Field Id:	MW-3		MW-2		MW-6		MW-9			
	Depth:										
	Matrix:	WATER		WATER		WATER		WATER			
	Sampled:	May-25-10 14:15		May-25-10 15:00		May-25-10 15:30		May-25-10 16:15			
BTEX by EPA 8021	*Extracted:*	Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45		Jun-02-10 15:45			
	Analyzed:	Jun-02-10 22:55		Jun-02-10 23:17		Jun-02-10 23:40		Jun-03-10 00:02			
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL		
Benzene		0.0109	0.0010	0.0023	0.0010	0.0059	0.0010	0.0421	0.0010		
Toluene		0.0033	0.0020	ND	0.0020	ND	0.0020	ND	0.0020		
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010		
m,p-Xylenes		0.0048	0.0020	ND	0.0020	ND	0.0020	0.0063	0.0020		
o-Xylene		0.0027	0.0010	ND	0.0010	ND	0.0010	ND	0.0010		
Xylenes, Total		0.0075	0.0010	ND	0.0010	ND	0.0010	0.0063	0.0010		
Total BTEX		0.0217	0.0010	0.0023	0.0010	0.0059	0.0010	0.0484	0.0010		

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.

Brent Barron, II
Odessa Laboratory Manager

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 374687,

Project ID: 2006-142

Lab Batch #: 809029 **Sample:** 564756-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 16:31

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0298	0.0300	99	80-120	

Lab Batch #: 809029 **Sample:** 564756-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 16:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0295	0.0300	98	80-120	

Lab Batch #: 809029 **Sample:** 564756-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 18:01

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 809029 **Sample:** 374687-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 19:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 809029 **Sample:** 374687-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 20:17

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	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.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 374687,

Project ID: 2006-142

Lab Batch #: 809029 **Sample:** 374687-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 20:39

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 809029 **Sample:** 374687-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 21:01

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 809029 **Sample:** 374687-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 21:24

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 809029 **Sample:** 374687-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 21:46

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0225	0.0300	75	80-120	*
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 809029 **Sample:** 374687-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 22:55

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0234	0.0300	78	80-120	*
4-Bromofluorobenzene	0.0268	0.0300	89	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: Lovington Gathering WTI

Work Orders : 374687,

Project ID: 2006-142

Lab Batch #: 809029 **Sample:** 374687-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 23:17

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0231	0.0300	77	80-120	*
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 809029 **Sample:** 374687-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 23:40

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 809029 **Sample:** 374687-010 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/03/10 00:02

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 809029 **Sample:** 374687-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/03/10 02:39

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0312	0.0300	104	80-120	

Lab Batch #: 809029 **Sample:** 374687-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/03/10 03:02

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0308	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.

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 374687
Analyst: ASA
Lab Batch ID: 809029
Sample: 564756-1-BKS
Units: mg/L

Date Prepared: 06/02/2010
Batch #: 1

Project ID: 2006-142
Date Analyzed: 06/02/2010
Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	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
Benzene	ND	0.1000	0.1056	106	0.1	0.1103	110	4	70-125	25	
Toluene	ND	0.1000	0.1039	104	0.1	0.1086	109	4	70-125	25	
Ethylbenzene	ND	0.1000	0.1065	107	0.1	0.1119	112	5	71-129	25	
m,p-Xylenes	ND	0.2000	0.2129	106	0.2	0.2237	112	5	70-131	25	
o-Xylene	ND	0.1000	0.1045	105	0.1	0.1096	110	5	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: Lovington Gathering WTI

Work Order # : 374687 **Project ID:** 2006-142

Lab Batch ID: 809029 **QC- Sample ID:** 374687-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 06/03/2010 **Date Prepared:** 06/02/2010 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.0014	0.1000	0.0988	97	0.1000	0.0956	94	3	70-125	25	
Toluene	ND	0.1000	0.0945	95	0.1000	0.0917	92	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0963	96	0.1000	0.0928	93	4	71-129	25	
m,p-Xylenes	ND	0.2000	0.1836	92	0.2000	0.1722	86	6	70-131	25	
o-Xylene	ND	0.1000	0.0923	92	0.1000	0.0874	87	5	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Bryant
Project Name: Lovington Gathering WTI
Company Name: Basin Environmental Service Technologies, LLC
Project #: 2006-142
Company Address: P. O. Box 301
Project Loc: Lea County, NM
City/State/Zip: Lovington, NM 88260
PO #: PAA- J. Henry
Telephone No: (575)605-7210
Fax No: (505) 396-1429
Report Format: [X] Standard [ ] TRRP [ ] NPDES
Sampler Signature:
e-mail: cjbryant@basin-consulting.com

(lab use only)
ORDER #: 3746187

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl 40ml voa	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge	GW - Groundwater S - Soil/Sol	NP - Non-Potable Specify Oth	Analyze For: TCLP:	TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	MW-5			5/25/2010	0900		3	X		X						GW											X				X
02	MW-1			5/25/2010	0945		3	X		X						GW											X				X
03	MW-4			5/25/2010	1045		3	X		X						GW											X				X
04	MW-10			5/25/2010	1130		3	X		X						GW											X				X
05	MW-7			5/25/2010	1245		3	X		X						GW											X				X
06	MW-8			5/25/2010	1330		3	X		X						GW											X				X
07	MW-3			5/25/2010	1415		3	X		X						GW											X				X
08	MW-2			5/25/2010	1500		3	X		X						GW											X				X
09	MW-6			5/25/2010	1530		3	X		X						GW											X				X
10	MW-9			5/25/2010	1615		3	X		X						GW											X				X

Special Instructions:
CLP
5-27-10 13:40

Relinquished by:	Date	Time	Received by:	Date	Time
	5-25	16:30			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Law	Date 5-27-10	Time 13:40

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.6 °C

XENCO Laboratories
Atlanta, Corpus Christi, Dallas, Houston, Miami, Midland, Philadelphia, San Antonio, Tampa

Document Title: Sample Receipt Checklist
Document No.: SYS - SRC
Revision/Date : No.00 , 05/18/10
Effective Date: 05/20/10
Page No.: 1 of 1

Prelogin / Nonconformance Report – Sample Log-In

Client: Basin Env. / Plains
Date/Time: 5.27.10 13:40
Lab ID #: 374687
Initials: AL

Sample Receipt Checklist

1. Sample on ice?						Blue	(Water)	No	
2. Shipping container in good condition?						(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?						(Yes)	No	N/A	
4. Chain of Custody present?						(Yes)	No		
5. Sample instructions complete on chain of custody?						(Yes)	No		
6. Any missing / extra samples?						Yes	(No)		
7. Chain of custody signed when relinquished / received?						(Yes)	No		
8. Chain of custody agrees with sample lable(s)?						(Yes)	No		
9. Container labels legible legible and intact?						(Yes)	No		
10. Sample matrix / properties agree with chain of custody?						(Yes)	No		
11. Samples in proper container / bottle?						(Yes)	No		
12. Samples properly preserved?						(Yes)	No	N/A	
13. Sample container intact?						(Yes)	No		
14. Sufficient sample amount for indicated test(s)?						(Yes)	No		
15. All samples received within sufficient hold time?						(Yes)	No		
16. Subcontract of sample(s)?						Yes	No	(N/A)	
17. Voc sample have zero head space?						(Yes)	No	N/A	
18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	3.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:_____ Contacted by:_____ Date/Time:_____

Regarding: _____

_____

Corrective ActionTaken:_____

_____

_____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 388134

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lovington Gathering WTI

2006-142

10-SEP-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **388134**
Lovington Gathering WTI
Project Address: Lea County, NM

Jason Henry:

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 388134. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 388134 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,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 388134

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10	W	Aug-30-10 09:00		388134-001
MW-1	W	Aug-30-10 09:30		388134-002
MW-4	W	Aug-30-10 10:45		388134-003
MW-5	W	Aug-30-10 11:20		388134-004
MW-8	W	Aug-30-10 12:30		388134-005
MW-2	W	Aug-30-10 12:45		388134-006
MW-6	W	Aug-30-10 13:30		388134-007
MW-7	W	Aug-30-10 15:20		388134-008
MW-3	W	Aug-30-10 14:10		388134-009
MW-9	W	Aug-30-10 16:40		388134-010

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lovington Gathering WTI

Project ID:	*2006-142*	*Report Date:*	*10-SEP-10*
Work Order Number:	*388134*	*Date Received:*	*09/01/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-821943 BTEX by EPA 8021
None

Batch: LBA-822408 BTEX by EPA 8021
None

Certificate of Analysis Summary 388134

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Wed Sep-01-10 02:30 pm
Report Date: 10-SEP-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	388134-001		388134-002		388134-003		388134-004		388134-005		388134-006	
	Field Id:	MW-10		MW-1		MW-4		MW-5		MW-8		MW-2	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Aug-30-10 09:00		Aug-30-10 09:30		Aug-30-10 10:45		Aug-30-10 11:20		Aug-30-10 12:30		Aug-30-10 12:45	
BTEX by EPA 8021	***Extracted:***	Sep-08-10 09:00		Sep-03-10 13:14		Sep-03-10 13:14		Sep-03-10 13:14		Sep-03-10 13:14		Sep-03-10 13:14	
	Analyzed:	Sep-09-10 18:25		Sep-07-10 04:21		Sep-07-10 04:44		Sep-07-10 05:07		Sep-07-10 05:30		Sep-07-10 05:53	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0406	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0014	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0132	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0132	0.0010
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0014	0.0010	0.0538	0.0010

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.

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

Certificate of Analysis Summary 388134

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Wed Sep-01-10 02:30 pm
Report Date: 10-SEP-10
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	388134-007		388134-008		388134-009		388134-010			
	Field Id:	MW-6		MW-7		MW-3		MW-9			
	Depth:										
	Matrix:	WATER		WATER		WATER		WATER			
	Sampled:	Aug-30-10 13:30		Aug-30-10 15:20		Aug-30-10 14:10		Aug-30-10 16:40			
BTEX by EPA 8021	***Extracted:***	Sep-03-10 13:14		Sep-03-10 13:14		Sep-03-10 13:14		Sep-03-10 13:14			
	Analyzed:	Sep-07-10 06:17		Sep-07-10 08:23		Sep-07-10 08:47		Sep-07-10 09:11			
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL		
Benzene		0.0053	0.0010	ND	0.0010	0.0092	0.0010	0.1259	0.0010		
Toluene		ND	0.0020	ND	0.0020	0.0036	0.0020	ND	0.0020		
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010		
m,p-Xylenes		ND	0.0020	ND	0.0020	0.0060	0.0020	0.0344	0.0020		
o-Xylene		ND	0.0010	ND	0.0010	0.0033	0.0010	ND	0.0010		
Xylenes, Total		ND	0.0010	ND	0.0010	0.0093	0.0010	0.0344	0.0010		
Total BTEX		0.0053	0.0010	ND	0.0010	0.0221	0.0010	0.1603	0.0010		

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Brent Barron, II
Odessa Laboratory Manager

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 388134,

Project ID: 2006-142

Lab Batch #: 821943 **Sample:** 572643-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 02:25

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

Lab Batch #: 821943 **Sample:** 572643-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 02:48

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 821943 **Sample:** 572643-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 03:58

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0319	0.0300	106	80-120	

Lab Batch #: 821943 **Sample:** 388134-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 04:21

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

[illegible] **Date Analyzed:** 09/07/10 [illegible] SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	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: Lovington Gathering WTI

Work Orders : 388134, **Project ID:** 2006-142

Lab Batch #: 821943 **Sample:** 388134-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 05:07

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

Lab Batch #: 821943 **Sample:** 388134-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 05:30

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0339	0.0300	113	80-120	

Lab Batch #: 821943 **Sample:** 388134-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 05:53

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 821943 **Sample:** 388134-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 06:17

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 821943 **Sample:** 388134-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 08:23

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY 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	0.0318	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: Lovington Gathering WTI

Work Orders : 388134,

Project ID: 2006-142

Lab Batch #: 821943 **Sample:** 388134-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 08:47

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0293	0.0300	98	80-120	

Lab Batch #: 821943 **Sample:** 388134-010 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/07/10 09:11

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 822408 **Sample:** 572943-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 16:01

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 822408 **Sample:** 572943-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 16:24

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

Lab Batch #: 822408 **Sample:** 572943-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 18:02

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0337	0.0300	112	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: Lovington Gathering WTI

Work Orders : 388134, **Project ID:** 2006-142

Lab Batch #: 822408 **Sample:** 388134-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 18:25

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
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	0.0340	0.0300	113	80-120	

Lab Batch #: 822408 **Sample:** 388134-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 18:49

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

Lab Batch #: 822408 **Sample:** 388134-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/09/10 19:12

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	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: Lovington Gathering WTI

Work Order #: 388134 **Project ID:** 2006-142

Analyst: ASA **Date Prepared:** 09/03/2010 **Date Analyzed:** 09/07/2010

Lab Batch ID: 821943 **Sample:** 572643-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
Benzene	ND	0.1000	0.1057	106	0.1	0.1054	105	0	70-125	25	
Toluene	ND	0.1000	0.1041	104	0.1	0.1038	104	0	70-125	25	
Ethylbenzene	ND	0.1000	0.1084	108	0.1	0.1074	107	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.2085	104	0.2	0.2064	103	1	70-131	25	
o-Xylene	ND	0.1000	0.1086	109	0.1	0.1073	107	1	71-133	25	

Analyst: SEE **Date Prepared:** 09/08/2010 **Date Analyzed:** 09/09/2010

Lab Batch ID: 822408 **Sample:** 572943-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
Benzene	ND	0.1000	0.0917	92	0.1	0.0968	97	5	70-125	25	
Toluene	ND	0.1000	0.0908	91	0.1	0.0961	96	6	70-125	25	
Ethylbenzene	ND	0.1000	0.0940	94	0.1	0.0999	100	6	71-129	25	
m,p-Xylenes	ND	0.2000	0.1819	91	0.2	0.1932	97	6	70-131	25	
o-Xylene	ND	0.1000	0.0940	94	0.1	0.1003	100	6	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

Final 1.000

Form 3 - MS / MSD Recoveries

Project Name: Lovington Gathering WTI

Work Order # : 388134 **Project ID:** 2006-142

Lab Batch ID: 822408 **QC- Sample ID:** 388134-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/09/2010 **Date Prepared:** 09/08/2010 **Analyst:** SEE

Reporting Units: mg/L

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	ND	0.1000	0.0977	98	0.1000	0.0979	98	0	70-125	25	
Toluene	ND	0.1000	0.0966	97	0.1000	0.0974	97	1	70-125	25	
Ethylbenzene	ND	0.1000	0.0994	99	0.1000	0.1007	101	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1925	96	0.2000	0.1946	97	1	70-131	25	
o-Xylene	ND	0.1000	0.0999	100	0.1000	0.1004	100	0	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Bryant

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210 Fax No: (505) 396-1429

Sampler Signature: Sofi Lowry FOR COBY REYNOLDS e-mail: cjbryant@basin-consulting.com

Project Name: Lovington Gathering WTI

Project #: 2006-142

Project Loc: Lea County, NM

PO #: PAA- J. Henry

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 388134

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge	GW - Groundwater S - Soil/Solid	NP - Non-Potable Specify Other	Analyze For: TCLP:	TOTAL: X	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	MW-10			8/30/2010	0900		2	X		X						GW												X								X
02	MW-1			8/30/2010	0930		2	X		X						GW												X								X
03	MW-4			8/30/2010	1045		2	X		X						GW												X								X
04	MW-5			8/30/2010	1120		2	X		X						GW												X								X
05	MW-8			8/30/2010	1230		2	X		X						GW												X								X
06	MW-2			8/30/2010	1245		2	X		X						GW												X								X
07	MW-6			8/30/2010	1330		2	X		X						GW												X								X
08	MW-7			8/30/2010	1520		2	X		X						GW												X								X
09	MW-3			8/30/2010	1410		2	X		X						GW												X								X
10	MW-9			8/30/2010	1640		2	X		X						GW												X								

Special Instructions:

Sofi Lowry

Relinquished by:	Date	Time	Received by:	Date	Time
Sofi Lowry	9-1-10	2:30			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Elam	Date 9-1-10	Time 14:30

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL Fedex Lone Star

40ml VOA

Temperature Upon Receipt: 1.5 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains

Date/Time: 9.1.10 14:30

Lab ID # : 388134

Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	1.5 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact: _____ **Contacted by:** _____ **Date/Time:** _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply:

- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 397217

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lovington Gathering WTI

2006-142

17-NOV-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

17-NOV-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **397217**
Lovington Gathering WTI
Project Address: Lea County, NM

Jason Henry:

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 397217. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 397217 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,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 397217

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10	W	Nov-11-10 09:00		397217-001
MW-1	W	Nov-11-10 08:00		397217-002
MW-4	W	Nov-11-10 08:30		397217-003
MW-5	W	Nov-11-10 10:00		397217-004
MW-8	W	Nov-11-10 09:30		397217-005
MW-2	W	Nov-11-10 12:00		397217-006
MW-6	W	Nov-11-10 10:30		397217-007
MW-7	W	Nov-11-10 11:00		397217-008
MW-3	W	Nov-11-10 11:30		397217-009
MW-9	W	Nov-11-10 12:30		397217-010

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lovington Gathering WTI

Project ID:	*2006-142*	*Report Date:*	*17-NOV-10*
Work Order Number:	*397217*	*Date Received:*	*11/12/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-832334 BTEX by EPA 8021B
SW8021BM

Batch 832334, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 397217-002.

Certificate of Analysis Summary 397217

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Nov-12-10 04:20 pm
Report Date: 17-NOV-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	397217-001		397217-002		397217-003		397217-004		397217-005		397217-006	
	Field Id:	MW-10		MW-1		MW-4		MW-5		MW-8		MW-2	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Nov-11-10 09:00		Nov-11-10 08:00		Nov-11-10 08:30		Nov-11-10 10:00		Nov-11-10 09:30		Nov-11-10 12:00	
BTEX by EPA 8021B	*Extracted:*	Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45	
	Analyzed:	Nov-16-10 11:31		Nov-16-10 11:53		Nov-16-10 12:14		Nov-16-10 12:36		Nov-16-10 12:58		Nov-16-10 13:20	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		0.0350	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0087	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m_p-Xylenes		0.0035	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0910	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total Xylenes		0.0035	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0910	0.0010
Total BTEX		0.0385	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0997	0.0010

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.

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

Certificate of Analysis Summary 397217

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Nov-12-10 04:20 pm
Report Date: 17-NOV-10
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	397217-007		397217-008		397217-009		397217-010			
	Field Id:	MW-6		MW-7		MW-3		MW-9			
	Depth:										
	Matrix:	WATER		WATER		WATER		WATER			
	Sampled:	Nov-11-10 10:30		Nov-11-10 11:00		Nov-11-10 11:30		Nov-11-10 12:30			
BTEX by EPA 8021B	***Extracted:***	Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45		Nov-15-10 16:45			
	Analyzed:	Nov-16-10 13:41		Nov-16-10 14:03		Nov-16-10 14:24		Nov-16-10 16:13			
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL		
Benzene		0.0082	0.0010	ND	0.0010	0.0033	0.0010	0.0265	0.0010		
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020		
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010		
m_p-Xylenes		0.0035	0.0020	ND	0.0020	0.0023	0.0020	0.0097	0.0020		
o-Xylene		ND	0.0010	ND	0.0010	0.0013	0.0010	ND	0.0010		
Total Xylenes		0.0035	0.0010	ND	0.0010	0.0036	0.0010	0.0097	0.0010		
Total BTEX		0.0117	0.0010	ND	0.0010	0.0069	0.0010	0.0362	0.0010		

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Brent Barron, II
Odessa Laboratory Manager

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 397217,

Project ID: 2006-142

Lab Batch #: 832334 **Sample:** 578959-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 09:43

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 832334 **Sample:** 578959-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 10:05

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0353	0.0300	118	80-120	

Lab Batch #: 832334 **Sample:** 578959-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 10:48

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 832334 **Sample:** 397217-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 11:31

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 832334 **Sample:** 397217-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 11:53

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0234	0.0300	78	80-120	*
4-Bromofluorobenzene	0.0288	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: Lovington Gathering WTI

Work Orders : 397217, **Project ID:** 2006-142

Lab Batch #: 832334 **Sample:** 397217-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 12:14

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 832334 **Sample:** 397217-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 12:36

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 832334 **Sample:** 397217-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 12:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
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	0.0360	0.0300	120	80-120	

Lab Batch #: 832334 **Sample:** 397217-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 13:20

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
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	0.0340	0.0300	113	80-120	

Lab Batch #: 832334 **Sample:** 397217-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 13:41

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 397217,

Project ID: 2006-142

Lab Batch #: 832334 **Sample:** 397217-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 14:03

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0347	0.0300	116	80-120	

Lab Batch #: 832334 **Sample:** 397217-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 14:24

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 832334 **Sample:** 397215-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 14:46

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 832334 **Sample:** 397215-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 15:08

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 832334 **Sample:** 397217-010 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/16/10 16:13

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0289	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.

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 397217 **Project ID:** 2006-142

Analyst: ASA **Date Prepared:** 11/15/2010 **Date Analyzed:** 11/16/2010

Lab Batch ID: 832334 **Sample:** 578959-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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
Benzene	ND	0.1000	0.0961	96	0.1	0.1026	103	7	70-125	25	
Toluene	ND	0.1000	0.0930	93	0.1	0.0996	100	7	70-125	25	
Ethylbenzene	ND	0.1000	0.0935	94	0.1	0.1008	101	8	71-129	25	
m_p-Xylenes	ND	0.2000	0.1896	95	0.2	0.2038	102	7	70-131	25	
o-Xylene	ND	0.1000	0.0924	92	0.1	0.0972	97	5	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: Lovington Gathering WTI

Work Order # : 397217 **Project ID:** 2006-142

Lab Batch ID: 832334 **QC- Sample ID:** 397215-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/16/2010 **Date Prepared:** 11/15/2010 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.2795	0.1000	0.3749	95	0.1000	0.3882	109	3	70-125	25	
Toluene	0.1807	0.1000	0.2835	103	0.1000	0.2916	111	3	70-125	25	
Ethylbenzene	0.0126	0.1000	0.1002	88	0.1000	0.1015	89	1	71-129	25	
m_p-Xylenes	0.0114	0.2000	0.1834	86	0.2000	0.1834	86	0	70-131	25	
o-Xylene	0.0049	0.1000	0.0928	88	0.1000	0.0934	89	1	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ben Arguijo

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: 575.396.2378 Fax No: (505) 396-1429

Sampler Signature: Zack Lowery e-mail: pm@basinenv.com

Project Name: Lovington Gathering WTI

Project #: 2006-142

Project Loc: Lea County, NM

PO #: PAA- J. Henry

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 397217

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludg; GW = Groundwater S = Soil/Sol; NP = Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
	MW-10			11/11/2010	0900		3	X		X						GW									X				X
	MW-1			11/11/2010	0800		3	X		X						GW									X				X
	MW-4			11/11/2010	0830		3	X		X						GW									X				X
	MW-5			11/11/2010	1000		3	X		X						GW									X				X
	MW-8			11/11/2010	0930		3	X		X						GW									X				X
	MW-2			11/11/2010	1200		3	X		X						GW									X				X
	MW-6			11/11/2010	1030		3	X		X						GW									X				X
	MW-7			11/11/2010	1100		3	X		X						GW									X				X
	MW-3			11/11/2010	1130		3	X		X						GW									X				X
	MW-9			11/11/2010	1230		3	X		X						GW									X				

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Zack Lowery	11/12/10	1:30		11/12/10	1330
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	11/12/10	1620	Lisa Murdock	11-12-10	16:20

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

VOC

Temperature Upon Receipt: 3.1 °C

Final 1.000

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: ~~Basin Environmental~~ Plains KM

Date/Time: 11-18-10 16:20

Lab ID # : 397217

Initials: KM

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	~~N/A~~ KM	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	(No)	N/A	
17. VOC sample have zero head space?	Yes	(No)	N/A	

18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3.1 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact:_____ Contacted by:_____ Date/Time:_____

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Appendix B

Release Notification &

Corrective Action (Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Lovington Gathering WTI	Facility Type 6"Steel Pipeline

Surface Owner Robert Rice	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	17S	37E					Lea

Latitude 32° 51' 56.0" **Longitude** 103° 17' 07.2"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 12 barrels	Volume Recovered 8 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 4-21-2006 @ 13:00	Date and Hour of Discovery 4-21-2006 @ 13:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 4-21-2006 @ 15:35	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken Internal corrosion while purging the line resulted in release of sweet crude oil. The line has been purged. The line is an idle 6-inch steel gathering line. The pressure on the line was approximately 50 psi and the gravity of the sweet crude oil was 34. The sweet crude has an H_2S content of <10 ppm. The line was approximately 1.5 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 1,500 ft^2.

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: Camille Reynolds

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 4/26/2006 Phone:505-441-0965

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐