

ANNUAL MONITORING REPORT





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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, .

∫ason`Henry Remediation Coordinator Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM Enclosures

2530 State Hwy, 214 • Denver Uity, TX 79323 • (575)441-1099

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

ês **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 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

I.

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 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.

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

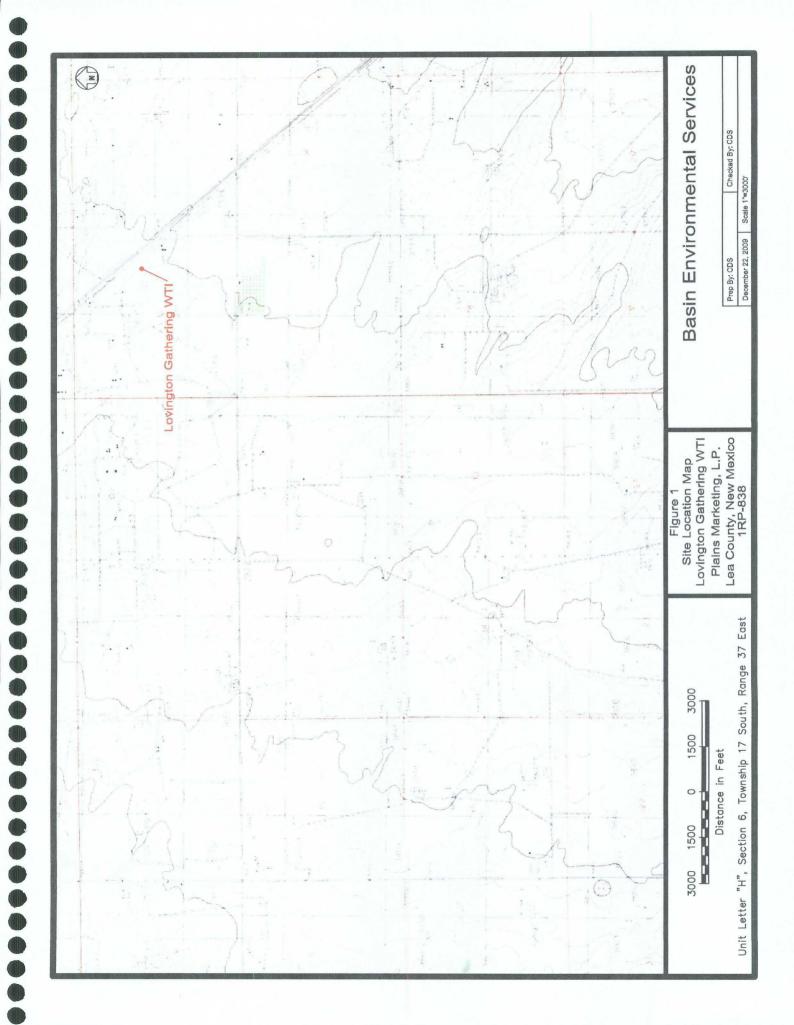
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Copy 2:	Geoff Leking New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240 GeoffreyR.Leking@state.nm.us
Copy 3:	Jeff Dann Plains Marketing, L.P. 333 Clay Street Suite 1600 Houston, Texas 77002 jpdann@paalp.com
Copy 4:	Jason Henry Plains Marketing, L.P. 2530 State Highway 214 Denver City, Texas 79323 jhenry@paalp.com
Copy 5:	Basin Environmental Service Technologies, LLC P. O. Box 301 Lovington, New Mexico 88260 bjarguijo@basinenv.com

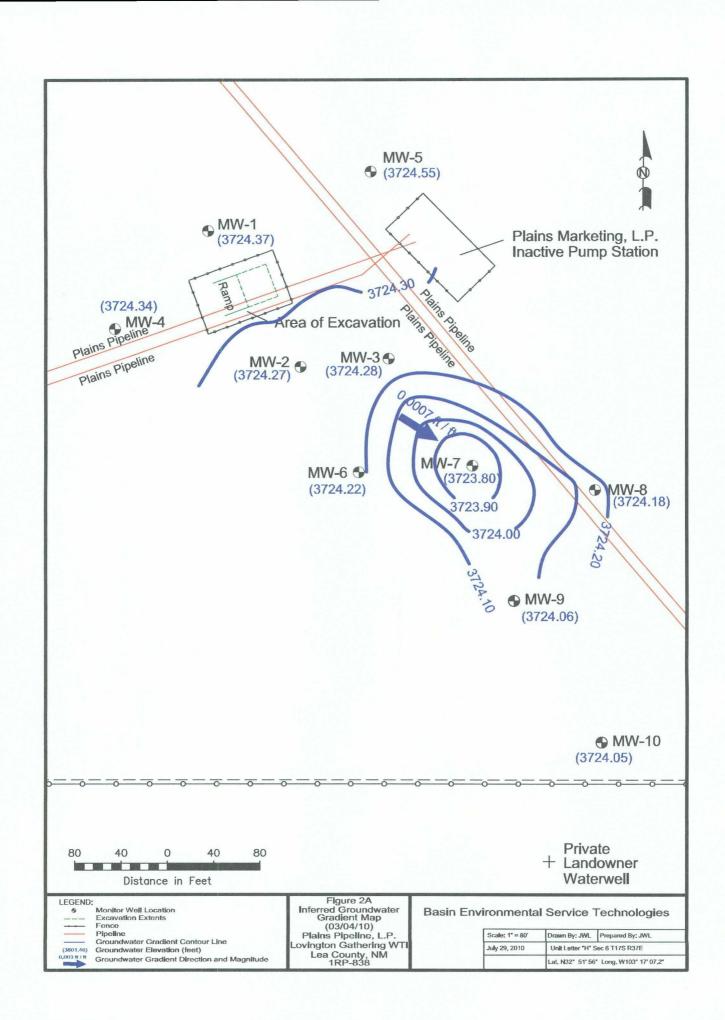
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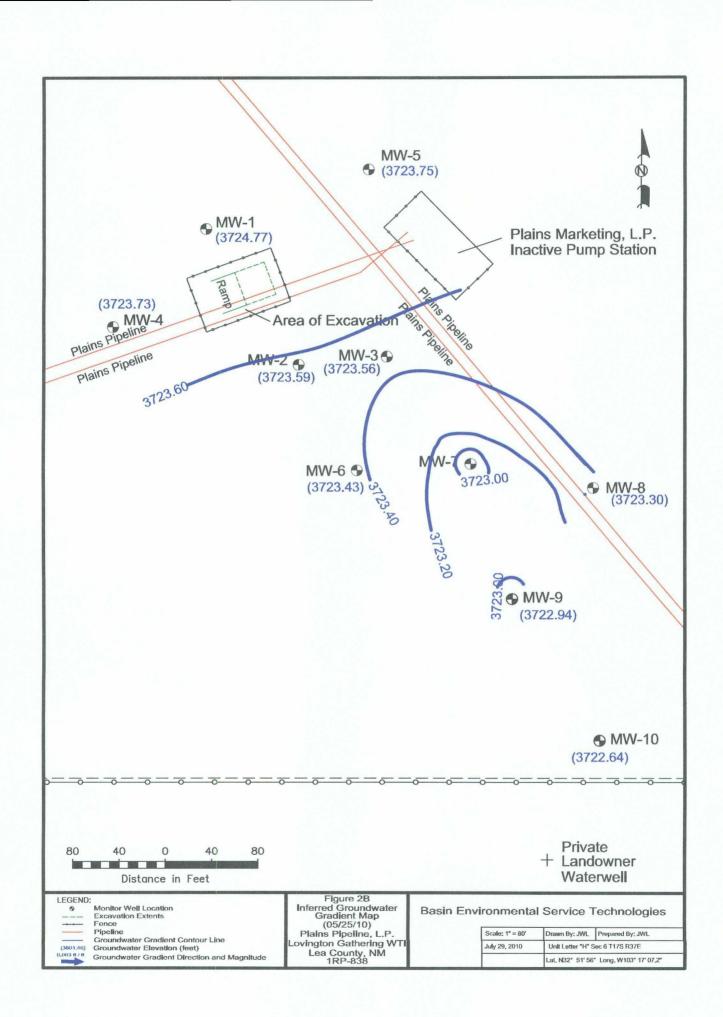
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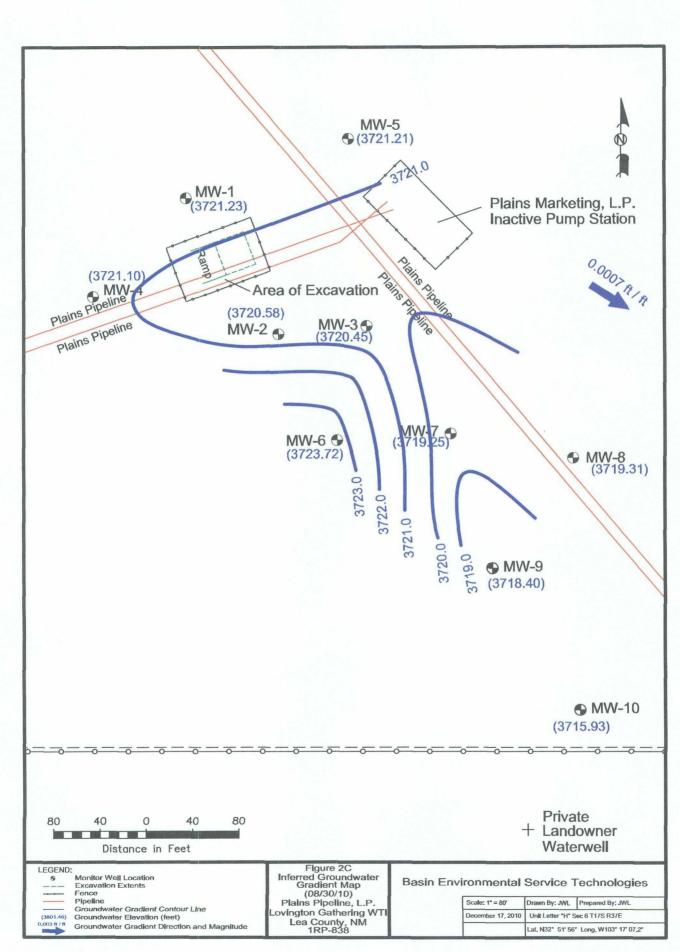




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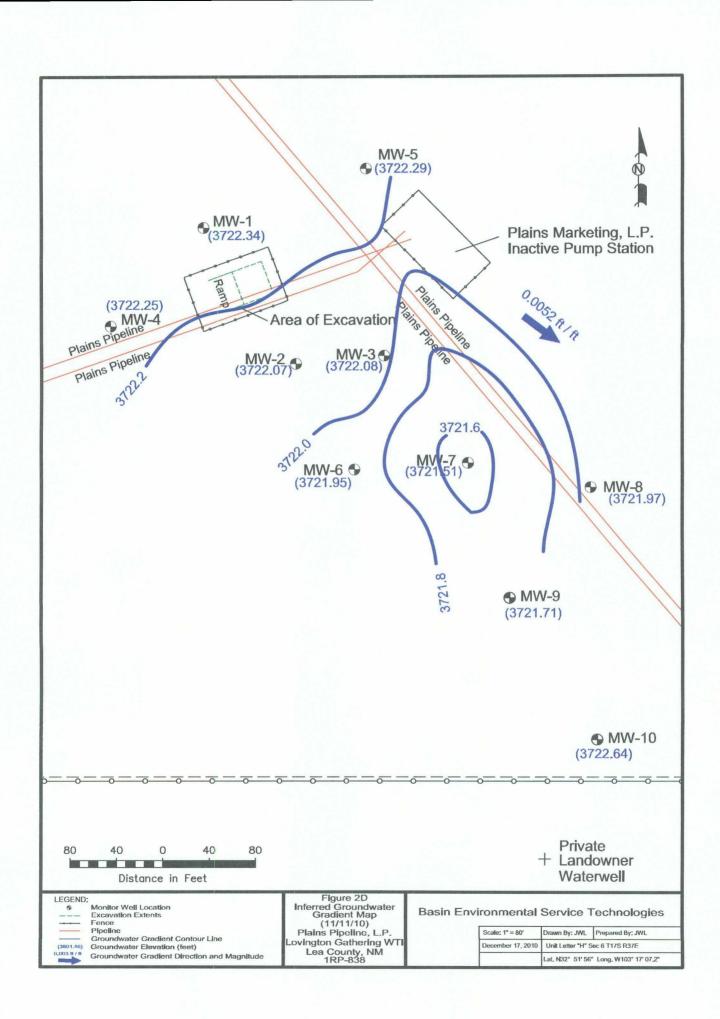
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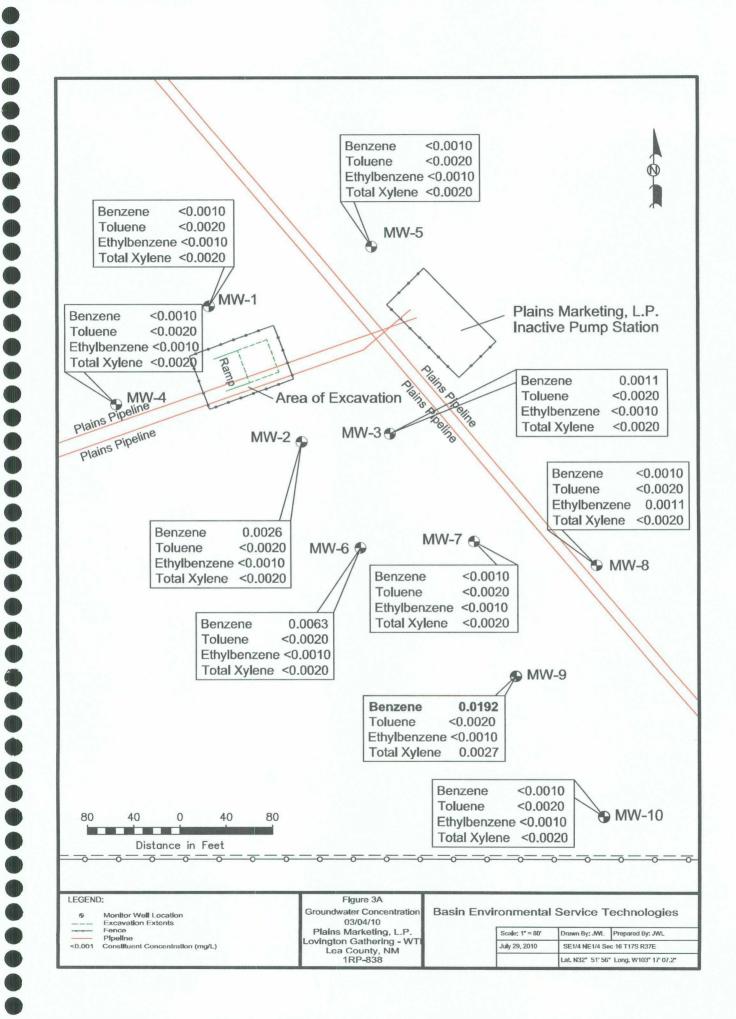
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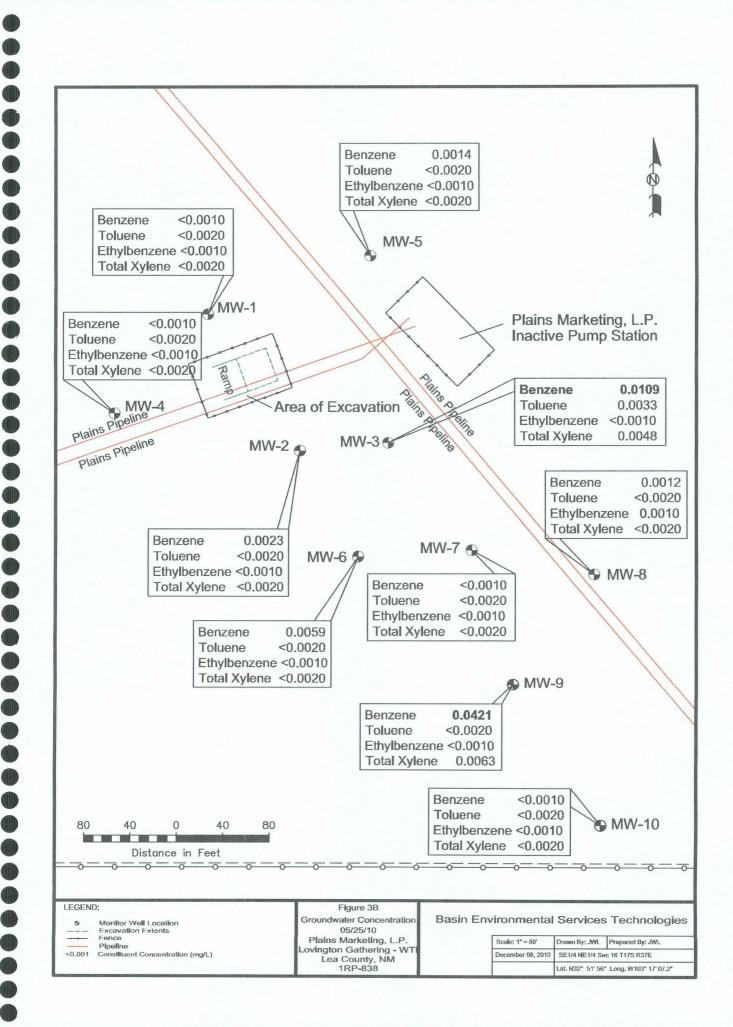


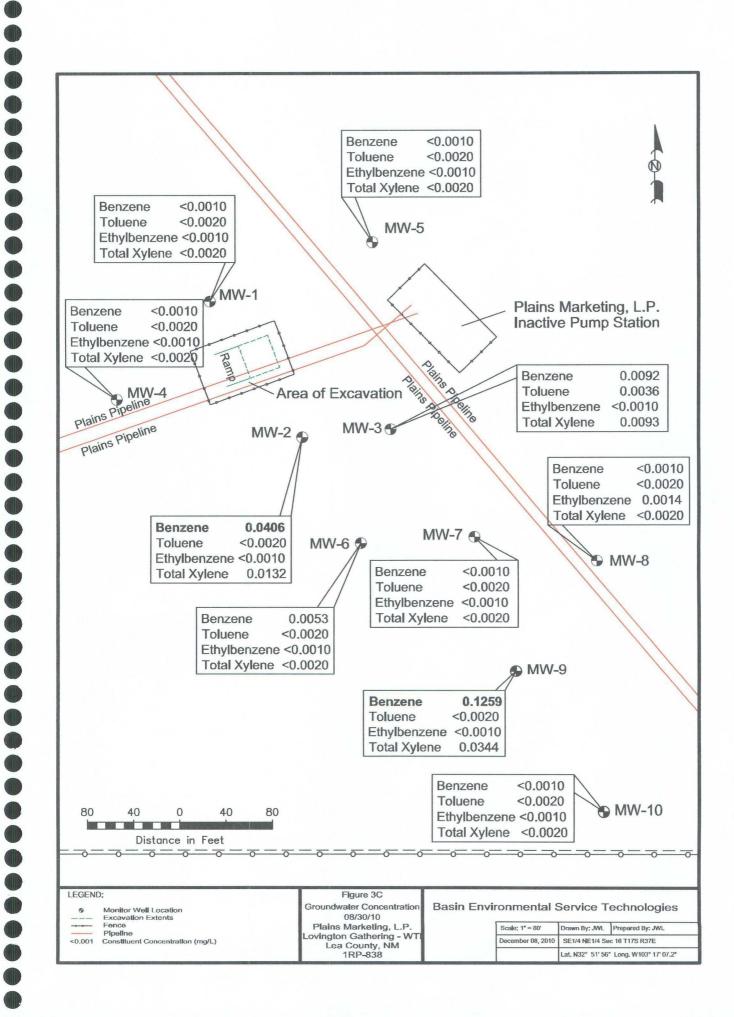
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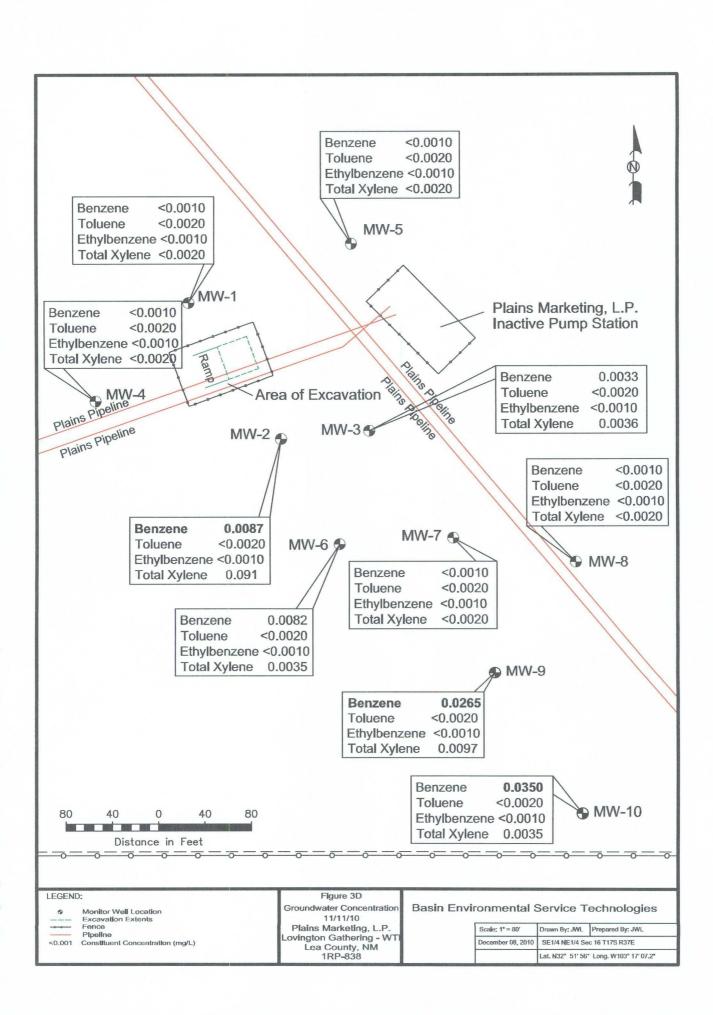
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Tables

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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
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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
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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
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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
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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

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
2	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
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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

			N	ETHODS:	EPA SW 846-	8021b	
SAMPLE LOCATION	SAMPLE DATE	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
		1. San 1. San 1.			Start Start Start		
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
		1. 2008 A S.C.					1.
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
			and the second				
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
					1. N. N.		
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
*		and the second					
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
				1997 - 1997 -			·

Page 1 of 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

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			M	IETHODS:	EPA SW 846-	8021b	
SAMPLE LOCATION	SAMPLE DATE	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
and the second					ang sun an sun ang sun an sun a	4	
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
					المراجعة (ماريعة) الأرب محركة الأربية الأرب محركة الأربية	·	
NMOCD CRI	TERIA	0.01	0.75	0.75	TOTAL XY	LENES 0.62	

Appendices

Appendix A

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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 (AAL11), 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

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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

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CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S



Project Name: Lovington Gathering WTI

Project ID: 2006-142 Work Order Number: 364844

Report Date: 15-MAR-10 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.

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Certificate of Analysis Summary 364844 PLAINS ALL AMERICAN EH&S, Midland, TX



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Project Id: 2006-142 Contact: Jason Henry

Project Name: Lovington Gathering WTI

Date Received in Lab: Tue Mar-09-10 08:25 am Report Date: 15-MAR-10

Project Location: Lea County, NM					Report Date: 15-MAR-10	5-MAR-10		
					Project Manager: H	Brent Barron, II		
	Lab Id:	364844-001	364844-002	364844-003	364844-004	364844-005	364844-006	
Analysis Dogustad	Field Id:	01-MW	MW-5	MW-4	1-WW	9-MW	MW-3	
naisanhay sistinuv	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-11-1013:46	Mar-11-10 15:08	Mar-11-1015:29	Mar-11-10 15:50	Mar-11-10 16:11	Mar-11-10 16:31	01-C 01
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L R	RL
Benzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.0063 0.0010	0.0011 0.0010	010
Toluene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	020
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	010
.m,p-Xylenes		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	020
o-Xylene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.00	0.0010
Xylenes, Total		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	010
Total BTEX		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.0063 0.0010	0.0011 0.0010	010

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

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Odessa Laboratory Manager Brefit Barron, II

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Call Scheroper Street

Contact: Jason Henry Project Id: 2006-142

Certificate of Analysis Summary 364844 PLAINS ALL AMERICAN EH&S, Midland, TX **Project Name: Lovington Gathering WTI**



Date Received in Lab: Tue Mar-09-10 08:25 am

Report Date: 15-MAR-10

W Was			Project Manager: Brent Barron, II	
Lab Id: 36484-007 1 Analysis Requested Field 1d: MW-7 Pophi: Dopth: WATER Marrix: WATER Marrix: BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma BTEX by EPA 8021 Extracted: Mar-11-10 16:52 Ma Onorized: mar-11-10 16:52 Ma ma Outloop Mar-11-10 16:52 Ma ma Control marylized: mar-11-10 16:52 Ma Control marylized: maylized: ma ma Control marylized: ma ma ma ma Control ma ma ma ma ma ma ma Rese Ma ma <th>364844-007 MW<i>-7</i></th> <th></th> <th></th> <th></th>	364844-007 MW <i>-7</i>			
Analysis Requested Field Id: Depth: MW-7 Analysis Requested Depth:: WATER Marrix: WATER Marrix: Sampled: Mar-0113:00 Ma BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma Units:RL: mg/L RL n March:I mg/L RL n Image:I March:I ND 0.0010 n	<i>L-WM</i>	8 364844-009	364844-010	
Attutysis Acquested Depth: Matrix: WATER Matrix: WATER Sampled: Mar-04-10 13:00 Ma BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma Analyzed: Mar-11-10 16:52 Ma Ma Unitiv/RL: mg/L RL m ND 0.0010 ND 0.0010 Ene ND 0.0010 ND 0.0010		MW-2	MW-9	
Matrix: WATER Sampled: War-04-10 13:00 Ma BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma Atualyzed: Mar-11-10 16:52 Ma UtilityRL: mg/L ma Control UtilityRL: mg/L RL ma 00010 ma Control ND 0.0010 ND 0.0010 ma no no </th <th>Depth:</th> <th></th> <th></th> <th></th>	Depth:			
Sampled: Mar-04-10 13:00 Ma BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma Analyzed: Mar-11-10 16:52 Ma Ma Mar-11-10 16:52 Ma Units/RL: mg/L RL RL Ma 0.0010 Ma Content ND 0.0010 ND 0.0010 ND 0.0010		WATER	WATER	
BTEX by EPA 8021 Extracted: Mar-10-10 08:15 Ma Analyzed: Mar-11-10 16:52 Ma Units/RL: mg/L RL n No 0.0010 n n Zene ND 0.0010 n		3:45 Mar-04-10 14:30	Mar-04-10 15:30	
Analyzed: Mar.11-10 16:52 Ma Units/RL: mg/L RL n ND 0.0010 ND 0.0010 Zene ND 0.0010 ND		3:15 Mar-10-10 08:15	Mar-10-10 08:15	
Units/RL: mg/L RL n ND 0.0010 ND 0.0020 ND 0.0010		7:13 Mar-11-10 17:34	Mar-11-10 17:54	
ND 0.0010 ND 0.0020 ND 0.0010 D 0.0020	mg/L RL mg/L	RL mg/L RL	mg/L RL	
ZEDE ND 0.0020 220 220 220 220 220 220 20020 20020 20020 20020 20020 20020 20020 20020 20020 20020 20020 20020	 	.0010 0.0026 0.0010	0.0192 0.0010	
ND 0.0010 ND 0.0020	ND 0.0020 ND 0.0020	.0020 ND 0.0020	ND 0.0020	Γ
	ND 0.0010 0.0011 0.0010	.0010 ND 0.0010	ND 0.0010	
	ND 0.0020 ND 0.0020	.0020 ND 0.0020	0.0027 0.0020	Γ
o-Xylene ND 0.0010	ND 0.0010 ND 0.0010	.0010 ND 0.0010	ND 0.0010	
Xylenes, Total ND 0.0010	ND 0.0010 ND 0.0010	.0010 ND 0.0010	0.0027 0.0010	
Total BTEX ND 0.0010 (ND 0.0010 0.0011 0.0010	.0010 0.0026 0.0010	0.0219 0.0010	

ł ÷, This madytical 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 nakes no warranty to the end use of the data heeely presented. Our liability is limited to the amount invoiced for this work order unless ohrewise agreed to in writing.

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Odessa Laboratory Manager Brent Barron, II ľ

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- 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.

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12600 West I-20 East, Odessa, TX 79765				
842 Cantwell Lane, Corpus Christi, TX 78408				

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

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Work Orders : 364844 Lab Batch #: 798019		, 552928-1-BKS / BK	S Bate	-	D: 2006-142 Water			
Units: mg/L	Date Analyzed:							
BTE	X by EPA 8021	i 1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	Analytes	1	0.0214	0.0200		00.120		
4-Bromofluorobenzene		÷	0.0314	0.0300	105 93	80-120 80-120		
		552020 1 DGD / DG			1	80-120		
Lab Batch #: 798019	•	552928-1-BSD / BSD Batch: 1 Matrix: Water						
Units: mg/L	Date Analyzed:	03/11/10 09:15 SURROGATE RECOVERY STUDY						
BTE	X by EPA 8021 Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		÷	0.0290	0.0300	97	80-120		
4-Bromofluorobenzene	······		0.0262	0.0300	87	80-120		
Lab Batch #: 798019	Samnle:	552928-1-BLK / BL	K Bate	h: 1 Matrix	• Water			
Units: mg/L	-	03/11/10 10:18 SURROGATE RECOVERY STUDY						
,	X by EPA 8021		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	Bate	h: 1 Matrix	Water			
Units; mg/L	Date Analyzed:			RROGATE R	-	STUDY		
r	CX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		1	0.0280	0.0300	93	80-120		
4-Bromofluorobenzene			0.0210	0.0300	70	80-120	*	
Lab Batch #: 798019	Sample:	364844-002 / SMP	Bat	ch: 1 Matrix	:Water			
Units: mg/L	Date Analyzed:	03/11/10 15:08	SU	JRROGATE RI	ECOVERY	STUDY		
BTE	CX by EPA 8021 Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		1	0.0271	0.0300	90	80-120		
· ·		1			1		1	

* 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.

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Vork Orders : 364844 Lab Batch #: 798019	, Sample: 364844-003 / SMP	Batcl		D: 2006-142 ::Water		
Units: mg/L	Date Analyzed: 03/11/10 15:29	SU	RROGATE RI	ECOVERY (STUDY	
ВТЕ	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		l
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	Batcl		-		
Units: mg/L	Date Analyzed: 03/11/10 15:50	SU	RROGATE RI	ECOVERY S	STUDY	
BTE	EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0282	0.0300	94	80-120	
4-Bromofluorobenzene		0.0188	0.0300	63	80-120	*
Lab Batch #: 798019	Sample: 364844-005 / SMP	Batcl	h: ¹ Matrix:	• Water	<u>ا</u> ـــــــــــ	
Units: mg/L	Date Analyzed: 03/11/10 16:11	-	RROGATE RI		STUDY	
BTE	EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0279	0.0300	93	80-120	<u> </u>
4-Bromofluorobenzene		0.0205	0.0300	68	80-120	*
Lab Batch #: 798019	Sample: 364844-006 / SMP	Batc	h: ¹ Matrix	Water	L4	<u> </u>
Units: mg/L	Date Analyzed: 03/11/10 16:31		RROGATE RI	-	STUDY	
BTE	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R D]	Control Limits %R	Flags
1 A D'Arr - Lanzana	Analytes		2.0300			
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0257	0.0300	86	80-120	*
		0.0191		64	80-120	
Lab Batch #: 798019	Sample: 364844-007 / SMP	Bate				
TT 1 . / T	Date Analyzed: 03/11/10 16:52	50	RROGATE RI	ECOVERY a	STUDY	•
Units: mg/L					1	1
· · · · · · · · · · · · · · · · · · ·	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
· · · · · · · · · · · · · · · · · · ·		Found	Amount	%R	Limits	Flags

* 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

ork Orders : 364844 Lab Batch #: 798019	, Sample: 3 ^{64844-008 / SMP}	Batc): 2006-142 Water		
Units: mg/L	Date Analyzed: 03/11/10 17:13		RROGATE RE		STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0294	0.0300	98	80-120 80-120	
					80-120	
Lab Batch #: 798019	Sample: 364844-009 / SMP	Bate	-		STUDY	
Units: mg/L	Date Analyzed: 03/11/10 17:34		RROGATE RI		STUDY	
BTE	X by EPA 8021 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		0.0179	0.0300	60	80-120	*
Lab Batch #: 798019	Sample: 364844-010 / SMP	Bate	h: ¹ Matrix	Water		
Units: mg/L	Date Analyzed: 03/11/10 17:54	SU	RROGATE RI	ECOVERY	STUDY	
BTE	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	. <u></u>	0.0204	0.0300	68	80-120	*
Lab Batch #: 798019	Sample: 364819-001 S / MS	Bate	:h: ^l Matrix	:Water		
Units: mg/L	Date Analyzed: 03/11/10 18:36	SU	RROGATE RI	ECOVERY	STUDY	
BTE	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
l,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 / M					
Units: mg/L	Date Analyzed: 03/11/10 18:56	SU	JRROGATE R	ECOVERY	STUDY	
BTE	CX by EPA 8021 Analytes	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 ۲ 1 0 0 0

B



Project Name: Lovington Gathering WTI

Work Order #: 364844 Analyst: ASA

Date Prepared: 03/10/2010

Project ID: 2006-142 Date Analyzed: 03/11/2010 Matrix: Water Flag

Lab Batch ID: 798019	Sample: 552928-1-BKS	KS	Batch #:]	1#: 1					Matrix: Water	Vater	
Units: mg/L			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / B	ILANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Υ
BTEX by EPA 8021	A 8021	Blank Samnle Result	Spike Added	Blank Snike	Blank Snike	Spike Added	Blank Snike	Blk. Spk Dun.	RPD	Control Limits	Control I imits
		[V]	nannu,	Result	%R	nannu	Duplicate	%R	%	%R	%RPD
Analytes			[B]		[a]	[E]	Result [F]	[6]			
Benzene		QN	0.1000	0.0924	92	0.1	0.0880	88	5	70-125	25
Toluene		DN	0.1000	0.0920	92	0.1	0.0860	86	7	70-125	25
Ethylbenzene		QN	0.1000	0.0924	92	0.1	0.0883	88	5	71-129	25
m,p-Xylencs		QN	0.2000	0.1846	92	0.2	0.1769	88	4	70-131	25
o-Xylene		QN	0.1000	0.0905	16	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

QC- Sample ID: 364819-001 S Date Prepared: 03/10/2010 Date Analyzed: 03/11/2010 Lab Batch ID: 798019 Work Order #: 364844

Project ID: 2006-142

Matrix: Water

Batch #:

ASA -

Date Analyzed: 03/11/2010	Date Prepared: 03/10/2010	03/10/20)10	An	Analyst: ASA	ASA					
Reporting Units: mg/L		W	ATRIX SPIKI	(TAM / 3	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	VERY S	TUDY		
BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sampte Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	QN	0.2000	0.1476	74	0.2000	0.1640	82	11	70-125	25	<u> </u>
Toluene	ΩN	0.2000	0.1455	73	0.2000	0.1642	<u>8</u> 2	12	70-125	25	
Ethylbenzene	DN	0.2000	0.1477	74	0.2000	0.1709	85	15	71-129	25	
m,p-Xylenes	DN	0.4000	0.2933	73	0.4000	0.3413	85	15	70-131	25	
o-Xylene	ΩN	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

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	ALY	Phone Fax:	gtor	142	Project Loc: Lea County, NM	PAA - J. Henry	Standard	ŀ			aS gH d'i i D bS ag ga aa :st		+	╞──								S a				
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60	ntal L		Y: Curt Stanley	-		Lovingt	(505) 441-2244	iej.		Z/ I DU IU		FIELD CODE	MW-5	MW-4	1-WM	8-WM	MW-3	7-WM	MW-8	MW-2	6-WW			P		
000000000000000000000000000000000000000	Environmental Lab of Texas		Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:		-												instructions:	the for	A Dest	hed by:	
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											Page 13 o	of 14						F	inal '	Ver.	1.00	0			. •	

Emirgamental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client	Basin Environmental
Date/ Time:	3/9/10 8:25
Lab ID # :	3104844
initials:	. 18

Sample Receipt Checklist

	· · · · · · · · · · · · · · · · · · ·			C	fient initia
#1	Temperature of containest ocoler?	Yes	No	0 ° C	1
#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?	(Ye6)	No	Not Present	j
#5	Chain of Custody present?	(Y68)	No		i
#6	Sample instructions complete of Chain of Custody?	Yes	No		
# 7	Chain of Custody signed when relinguished/ received?		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		(Yee)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Case)	No		
#16	Containers documented on Chain of Custody?	Yes	No		1
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yee	No	See Below	1
#19	ينفاقي ويوكر المتباد بالمتباد والتباد فالمتحد والمتباد فتك فبتباد ويتماكن والمتحد والمتحد والمتحد والمتحد	Yes	No	(Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	† †

Variance Documentation

Contact:		_ Contacted by: De	ate/ Time:	
Regarding: #4)	abels (escals -		
Corrective Action Take	:			
				+
Check all that Apply:		See attached e-mail/ fax Cliant understands and would like to proceed with analys Cooling process had begun shortly after sampling event	ús	

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 (AAL11), 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

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Client Name: PLAINS ALL AMERICAN EH&S

Project Name: Lovington Gathering WTI



Project ID:2006-142Work Order Number:374687

Report Date: 03-JUN-10 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

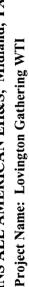
Batch 809029, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 374687-006,374687-008,374687-007.

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Image: Control Contro Control Control Contro Control Control Control Control Control Co PLAINS ALL AMERICAN EH&S, Midland, TX





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Contact: Jason Henry Project Id: 2006-142

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	srent Barron, II	
	Lab Id:	374687-001	374687-002	374687-003	374687-004	374687-005	374687-006
Analysis Daguard	Field Id:	MW-5	I-WM	MW-4	MW-10	MW-7	MW-8
naisanhay sistinut	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	Jum-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	Jum-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 troport represent the best jugament of XENCO Laboratories. XENCO Laboratories assumes no reponsibility and mates no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Odessa Laboratory Manager Brefit Barron, II

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Project Id: 2006-142 Contact: Jason Henry

Certificate of Analysis Summary 374687 PLAINS ALL AMERICAN EH&S, Midland, TX Project Name: Lovington Gathering WTI



Date Received in Lab: Thu May-27-10 01:40 pm Report Date: 03-JUN-10

Project Location: Lea County, NM					Report Date: 03-JUN-10	-JUN-10
					Project Manager: Brent Barron, II	ent Barron, II
	Lab Id:	374687-007	374687-008	374687-009	374687-010	
Americ Damachad	Field Id:	MW-3	MW-2	MW-6	6-MW	
noicenhou ciclinity	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	

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

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Odessa Laboratory Manager

Breht Barron, II

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- 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 MOL and above the SOL.
- 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 OC 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.

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West 1-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

(281) 240-4200

(214) 902 0300

(210) 509-3334

(813) 620-2000

(305) 823-8500

Fax

(281) 240-4280

(214) 351-9139

(210) 509-3335

(813) 620-2033

(305) 823-8555

(432) 563-1713

(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

ork Orders : 374687	, Sample: 564756-1-BKS / Bl	KS Batcl		2006-142 Water		
Units: mg/L	Date Analyzed: 06/02/10 16:31		RROGATE RE	COVERY S	STUDY	
ВТЕ	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
1,4-Difluorobenzene 4-Bromofluorobenzene	1	0.0307	0.0300	102	80-120	
		0.0298	0.0300	99	80-120	
Lab Batch #: 809029	Sample: 564756-1-BSD / BS					
Units: mg/L	Date Analyzed: 06/02/10 16:54	SU	RROGATE RE	COVERY	STUDY	
BTE	X 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		0.0295	0.0300	98	80-120	
Lab Batch #: 809029	Sample: 564756-1-BLK / B	LK Bate	h: ¹ Matrix:	Water		
Units: mg/L	Date Analyzed: 06/02/10 18:01	SU	RROGATE RI	COVERY	STUDY	
ВТЕ	CX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene		0.0247	0.0300	103	80-120	
Lab Batch #: 809029	Sample: 374687-001 / SMP	Batc	1	i 1	1	
-	Date Analyzed: 06/02/10 19:54		RROGATE RI		STUDY	
Units: mg/L BTE	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	0.0046	0.0200		00.100	
1,4-Difluorobenzene		0.0246	0.0300	82	80-120 80-120	
					80-120	
Lab Batch #: 809029	Sample: 374687-002 / SMP		h: 1 Matrix RROGATE RI		STUDY	
Units: mg/L	Date Analyzed: 06/02/10 20:17					
BT	EX by EPA 8021 Analytes	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 / BAll results are based on MDL and validated for QC purposes.

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

ork Orders : 374687 Lab Batch #: 809029 Units: mg/L	, Sample: 374687-003 / SMP Date Analyzed: 06/02/10 20:39	Batch		·	STUDY		
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1403	Analytes	0.024/	0.0200		00.100		
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0246	0.0300	82	80-120 80-120		
	27467-004/01/D				00-120		
Lab Batch #: 809029	Sample: 374687-004 / SMP	Batch: 1 Matrix:Water SURROGATE RECOVERY STUDY					
Units: mg/L	Date Analyzed: 06/02/10 21:01	SURROGATE RECOVERY STUDY					
BTE	X by EPA 8021 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		0.0315	0.0300	105	80-120		
Lab Batch #: 809029	Sample: 374687-005 / SMP	Batcl	h: ¹ Matrix	:Water			
Units: mg/L	Date Analyzed: 06/02/10 21:24	SU	RROGATE R		STUDY		
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
	Analytes			ļ			
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	Batcl		:Water			
Units: mg/L	Date Analyzed: 06/02/10 21:46	SU	RROGATE R	ECOVERY	STUDY		
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage	
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	Batcl	h: ¹ Matrix	:Water			
Units: mg/L	Date Analyzed: 06/02/10 22:55	SU	RROGATE R	ECOVERY	STUDY		
BTE	X by EPA 8021 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		0.0268	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.

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Vork Orders : 374687 Lab Batch #: 809029		374687-008 / SMP	Batcl): 2006-142 Water		
Units: mg/L	Date Analyzed:	06/02/10 23:17	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	1 			[D]		
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	Batel	h: 1 Matrix:	Water		
Units: mg/L	Date Analyzed:	06/02/10 23:40	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021 Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	j		0.0247	0.0300	82	80-120	
4-Bromofluorobenzene			0.0291	0.0300	97	80-120	
Lab Batch #: 809029	Sample:	374687-010 / SMP	Batcl	h: ¹ Matrix:	Water	1	
Units: mg/L	Date Analyzed:	· -	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes						
1,4-Difluorobenzene		 	0.0266	0.0300	89	80-120	
		1	0.0272	0.0300	91	80-120	
Lab Batch #: 809029	-	374687-001 S / MS	Bate				
Units: mg/L	Date Analyzed:	06/03/10 02:39	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		1.	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene			0.0312	0.0300	104	80-120	
Lab Batch #: 809029	Sample:	374687-001 SD / M	SD Bate	h: 1 Matrix:	Water	1	
Units: mg/L	Date Analyzed:	F		RROGATE RI		STUDY	
	CX by EPA 8021 Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		1	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene			0.0308	0.0300	103	80-120	1

* 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.

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BS / BSD Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 374687 Analyst: ASA

Lab Batch ID: 809029

Date Prepared: 06/02/2010

Batch #: 1

Sample: 564756-1-BKS

Date Analyzed: 06/02/2010 Matrix: Water

Project ID: 2006-142

Units: mg/L		BLAN	K /BLANK S	SPIKE / B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVE	RY STUD	Y	$\left[\right]$
BTEX by EPA 8021	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]		[a]	[E]	Result [F]	<u>[G</u>]				
Benzene	QN	0.1000	0.1056	106	0.1	0.1103	110	4	70-125	25	
Toluene	Q	0.1000	0.1039	104	0.1	0.1086	109	4	70-125	25	
Ethylbenzene	QN	0.1000	0.1065	107	0.1	0.1119	112	5	71-129	25	
m,p-Xylenes	QN	0.2000	0.2129	106	0.2	0.2237	112	5	70-131	25	
o-Xylene	QN	0.1000	0.1045	105	0.1	0.1096	110	5	71-133	25	

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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 Ver. 1.000



Form 3 - MS / MSD Recoveries



Project Name: Lovington Gathering WTI

Date Analyzed: 06/03/2010 Lab Batch ID: 809029 Work Order #: 374687

Project ID: 2006-142

QC- Sample ID: 374687-001 S Date Prepared: 06/02/2010

Matrix: Water ASA Analyst:

Batch #:

Reporting Units: mg/L		M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	ITAM / 3	RIX SPIF	KE DUPLICA	TE RECO	DVERY	STUDY		
BTEX by EPA 8021	Parent Sample		Spiked Sample S Result S	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	8% [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	0.0014	0.1000	0.0988	16	0.1000	0.0956	94	3	70-125	25	
Toluene Toluene		-0:1000-	0:0945		-0.1000-	0.0917	92		70-125	25	
Ethylbenzene	ND	0.1000	0.0963	96	0.1000	0.0928	93	4	71-129	25	
m,p-Xylenes	QN	0.2000	0.1836	92	0.2000	0.1722	86	6	70-131	25	
o-Xylene	QN	0.1000	0.0923	92	0.1000	0.0874	87	5	71-133	25	

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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 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

Final Ver. 1.000 Page 12 of 14

Envir	Environmental Lab of Texas	o of Te	xas						0	HAIN	OF C	CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	Y REC	ORD	AND	ANAL	YSIS	REQU	IEST			
								12600 Odess	12600 West I-20 East Odessa, Texas 79765	H20 Ea as 797	et 65					Phone Fax:	₩ ₩ ₩	Phone: 432-563-1800 Fax: 432-563-1713	-1800			
Proj	Project Manager: Camille Bryant	/ant										ł	Proje	ct Nar	<u>ا</u> د ≊	vingto	n Gal	Project Name: Lovington Gathering WT	W			
Can	Company Name Basin Envir	Basin Environmental Service Technologies, LLC	Ice Tech	Bolonn	ies, LLC							1	ц.	roject	#: 20	Project #: 2006-142						
Con	Company Address: P. O. Box 301	01										ł	Pro	ject Lo		Project Loc: Lea County, NM	MN.					
City	City/State/Zip: Lovington, NM 88260	NM 88260										ļ		ð	¥ ¥	PO #: PAA-J. Henry	È					
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San	Sampler Signature:					e-mail:	믱	ryant	<u>(@ba</u>	sin-c	nsuo	cibryant@basin-consulting.com	L E			ľ	CENTRO X				ſ	Г
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(Vino esu del) # 8A.	FIELD CODE		daginning Depth	titqeQ gaibra	Date Sampled	bekqms2 emiT	Field Filtered Total #. of Containers	H/KO ³ JCB	HCI CON I NO W	HOEN	Mone Cossol	opnis - 15 Jatem Bupulutio - Mo	TPH: 416,1 8015M 60151 WP-Non-Potable Specify Cthi TPH: 416,1 8015M 60151	1PH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC Metabe: As Ag Ba Co Cr Po Hg Si	volatiles Belliulation	BIEX 00218/2030 0 BIEX 8280	N.O.R.M. N.O.R.M.			ACL ALL (Pre-Schedule) 24, 4 YAO A TAT bribling?
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ß	MW-10				5/25/2010	1130	S	×	X			9	GW					×				<u> </u>
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æ	MW-2				5/25/2010	1500	3	x	×			0	GW					×				<u>×</u>
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9	6-MW				5/25/2010	1615	3	×	×			9	GW					×				–
Special Instructions		5-72	46	Ŧ											abora OC. F	Laboratory Commants: Sample Contribute Interior VOCs Free of Headspace?	mmen Viene triv Jeadsp	Laboratory Comments : Bismulo Contrinets Interd? VOCS Free of Headspace?		e z		N N
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Final Ver. 1.000



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:	asin Env.	Plains
Date/Time:	5.27.10 13	5:40
Lab ID #:	37468	7
Initials:	AL	

Sample Receipt Checklist

1. Sample	- on ico?					Blue	Water	No	
							\sim		
2. Shippir	ig containe	r in good co	indition?			Pes	No	None	
3. Custod	y seals inta	act on shipp	ing container	(cooler) and	bottles	(Yes)	No	N/A	
4. Chain d	of Custody	present?	·········	·····		(Yes)	, No		No. a
5. Sample	e instruction	ns complete	on chain of c	ustody?		(Yes)	No		
6. Any mi	ssing / extr	a samples?	······································	<u></u>		Yes	(No)		
7. Chain	of custody :	signed wher	n relinquished	/ received?	<u></u>	(Yes)	No		
8. Chain	of custody a	agrees with	sample lable	(s)?		Yes	No		
9. Contai	ner labels le	egible legibl	e and intact?			(Yes)	No		
10. Samp	le matrix /	properties a	gree with cha	in of custod	y?	(Yes)	No		
11. Samp	les in prop	er container	/ bottle?			Yes	No		
12. Samp	les properl	y preserved	17	····		Yes	No	N/A	
13. Samp	le containe	er intact?				(Yeg	No		
14. Suffic	ient sample	e amount fo	r indicated tes	st(s)?		(Yes)	No		
15. All sa	mples rece	ived within	sufficient hold	time?		Tes	No		
16. Subc	ontract of s	ample(s)?			<u></u>	Yes	No	(N/A)	
17. Voc s	ample have	e zero head	space?			Yes	No	N/A	
18. Coole	er 1 No.	Cooler 2 N	lo.	Cooler 3 N	lo.	Cooler 4	No.	Cooler 5	No.
lbs	3.60	ibs	s °C	lbs	⊃⁰	lbs	°C	lbs	°C
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Regardi	ng:								
								<u></u>	
Correcti	ve ActionTa	aken:							

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

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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



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Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), 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)



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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

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CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S



Project Name: Lovington Gathering WTI

Project ID: 2006-142 Work Order Number: 388134

Report Date: 10-SEP-10 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

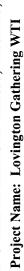
Batch: LBA-822408 BTEX by EPA 8021 None

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Image: Control Contro Control Control Contro Control Control Control Control Control Co PLAINS ALL AMERICAN EH&S, Midland, TX

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Contact: Jason Henry Project Id: 2006-142

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	srent Barron, II		
	Lab Id:	388134-001	388134-002	388134-003	388134-004	388134-005	388134-006	6
Auchicie Docurated	Field Id:	MW-10	I-WM	MW-4	MW-5	8-WM	MW-2	
naisanhay sistinu v	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	: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	: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	: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	0.0010
Toluene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	0.0020
Ethylbenzene		ND 0.0010	0100.0 UN	ND 0.0010	ND 0.0010	0.0014 0.0010	DN	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		0100.0 UN	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 intervations and returble sepressed throughout analytical report represent the best jugnents of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warmany 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

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Odessa Laboratory Manager Brefit Barron, II

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Project Id: 2006-142 Contact: Jason Henry

Certificate of Analysis Summary 388134 PLAINS ALL AMERICAN EH&S, Midland, TX Project Name: Lovington Gathering WTI



Date Received in Lab: Wed Sep-01-10 02:30 pm Report Date: 10-SEP-10

Project Location: Lea County, NM					Keport Date: 10-257-10	
					Project Manager: Brent Barron, II	
	Lab Id:	388134-007	388134-008	388134-009	388134-010	
Anathoic Damastad	Field Id:	9-MM	MW-7	MW-3	MW-9	
naisanhay sistinuk	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	Ī
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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This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and recults expressed throughout this malytical report represent the best judgment of XENCO Laboratorics. XENCO Laboratorics 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 obterwise agreed to in writing.

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Odessa Laboratory Manager Brent Barron, II



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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.

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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
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12600 West 1-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

ork Orders : 388134, Lab Batch #: 821943	Same L. 572642 1 DVS / D	VC D		D: 2006-142		
	Sample: 572643-1-BKS / B		h: 1 Matrix RROGATE RI		TUDV	
Units: mg/L	Date Analyzed: 09/07/10 02:25	50	RRUGATE RI			
	X by EPA 8021 Analytes	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 / B	SD Bate	h: Matrix	Water	II	
Units: mg/L	Date Analyzed: 09/07/10 02:48	SU	RROGATE R	ECOVERY	STUDY	
	X by EPA 8021 Analytes	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 / B	BLK Batc	h: ¹ Matrix	:Water	•	
Units: mg/L	Date Analyzed: 09/07/10 03:58	SU	RROGATE R	ECOVERY S	STUDY	
	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0293	0.0300	98	80-120	
4-Bromofluorobenzene		0.0319	0.0300	106	80-120	
Lab Batch #: 821943	Sample: 388134-002 / SMI	> Batc	h: ¹ Matrix	:Water	·	
Units: mg/L	Date Analyzed: 09/07/10 04:21	SU	RROGATE R	ECOVERY	STUDY	
	X by EPA 8021 Analytes	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		80-120	
					· · · · · · · · · · · · · · · · · · ·	
Unite Mart.	Date Analogent: (197(17711) (14:44		RROGATE R	ECOTENT		
BTE	X by EPA 8021 Analytes	Атони Конид [А]	True Amount [B]	Recovery %R [D]	Control Limits %R	k1aBi
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		0.0341	0.0300	114	80-120	<u> </u>

* Surrogate outside of Laboratory QC limits

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

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*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Project ID: 2006-142 Matrix: Water	: l Matri	Batch:	Sample: 388134-004 / SMP	ork Orders : 388134 Lab Batch #: 821943
	True Amount	Amount Found	Date Analyzed: 09/07/10 05:07 EX by EPA 8021	Units: mg/L BTF
B] %R %R [D]	[B]	[A]	Analytes	
0300 100 80-120	0.0300	0.0299		1,4-Difluorobenzene
0300 110 80-120	0.0300	0.0331		4-Bromofluorobenzene
Matrix: Water	: 1 Matri	Batch:	Sample: 388134-005 / SMP	Lab Batch #: 821943
ATE RECOVERY STUDY	RROGATE I	SUR	Date Analyzed: 09/07/10 05:30	Units: mg/L
nount Recovery Limits Fla	True Amount [B]	Amount Found [A]	EX by EPA 8021 Analytes	BTE
0300 87 80-120	0.0300	0.0262		1,4-Difluorobenzene
	0.0300	0.0339		4-Bromofluorobenzene
Matrix: Water	: 1 Matri	Batch:	Sample: 388134-006 / SMP	Lab Batch #: 821943
ATE RECOVERY STUDY			Date Analyzed: 09/07/10 05:53	Units: mg/L
nount Recovery Limits Fla	True Amount [B]	Amount Found [A]	EX by EPA 8021	BTE
[D]			Analytes	
0300 106 80-120	0.0300	0.0319		1,4-Difluorobenzene
0300 106 80-120	0.0300	0.0318		4-Bromofluorobenzene
Matrix: Water	i: l Matr	Batch:	Sample: 388134-007 / SMP	Lab Batch #: 821943
ATE RECOVERY STUDY	RROGATE I	SUR	Date Analyzed: 09/07/10 06:17	Units: mg/L
ount Recovery Limits Fla	True Amount [B]	Amount Found [A]	EX by EPA 8021 Analytes	BTE
0300 102 80-120	0.0300	0.0305	· · · · · · · · · · · · · · · · · · ·	1,4-Difluorobenzene
0300 113 80-120	0.0300	0.0340		4-Bromofluorobenzene
Matrix: Water	: 1 Matri	Batch:	Sample: 388134-008 / SMP	Lab Batch #: 821943
ATE RECOVERY STUDY	RROGATE I	SUR	Date Analyzed: 09/07/10 08:23	Units: mg/L
ount Recovery Limits Fla	True Amount [B]	Amount Found [A]	EX by EPA 8021	BTE
	0.0200	0.0282	Analytes	1 4-Difluorobenzene
				· · · · · · · · · · · · · · · · · · ·
	0.0300	0.0282		1,4-Difluorobenzene 4-Bromofluorobenzene

* 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

				,		
Vork Orders: 388134			•	D: 2006-142		
Lab Batch #: 821943	Sample: 388134-009 / SMP	Batel				
Units: mg/L	Date Analyzed: 09/07/10 08:47	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021	Amount Found {A}	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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	Bate				
Units: mg/L	Date Analyzed: 09/07/10 09:11	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0335	0.0300	112	80-120	
		0.0321	0.0300	107	80-120	
Lab Batch #: 822408	Sample: 572943-1-BKS / BI			-		
Units: mg/L	Date Analyzed: 09/09/10 16:01	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021 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 / B	SD Bate	h: ¹ Matrix	: Water		
Units: mg/L	Date Analyzed: 09/09/10 16:24		RROGATE R	-	STUDY	
	X by EPA 8021 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 / B	LK Bate	h: ¹ Matrix	:Water		
Units: mg/L	Date Analyzed: 09/09/10 18:02	SU	RROGATE R	ECOVERY	STUDY	
BTE	CX by EPA 8021 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.

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

ork Orders : 388134				D: 2006-142		
Lab Batch #: 822408	Sample: 388134-001 / SMP	Bate	h: 1 Matrix: RROGATE RI		STUDY	
Units: mg/L BTE	Date Analyzed: 09/09/10 18:25 X by EPA 8021 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	Bate	h: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 09/09/10 18:49	SU	RROGATE RI	ECOVERY S	STUDY	
BTE	X by EPA 8021 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 / N	ISD Batc	h: 1 Matrix:	Water		
Units: mg/L	Date Analyzed: 09/09/10 19:12	SU	RROGATE RI	ECOVERY S	STUDY	
BTE	X by EPA 8021 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.

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BS / BSD Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 388134 Analyst: ASA

Lab Batch ID: 821943

Date Prepared: 09/03/2010

Batch #: 1

Sample: 572643-1-BKS

Project ID: 2006-142 Date Analyzed: 09/07/2010 Matrix: Water

Units: mg/L	×		BLANF	K /BLANK S	PIKE / B	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE I	RECOVE	RY STUD	Y	
BTEX by EPA 8021		Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		Ţ	[B]	[C]	a	[E]	Result [F]	.	2			
Benzene		QN	0.1000	0.1057	90İ	0.1	0.1054	105	0	70-125	25	
Toluene		QN	0.1000	0.1041	104	0.1	0.1038	104	0	70-125	25	
Ethylbenzene		Q	0.1000	0.1084	108	0.1	0.1074	107	-	71-129	25	
m,p-Xylenes		Ŋ	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		Da	te Prepare	Date Prepared: 09/08/2010	0			Date Ar	Date Analyzed: 09/09/2010	9/09/2010		
Lab Batch ID: 822408	Sample: 572943-1-BKS		Batch #:	#: 1	·				Matrix: Water	Vater		

Units: mg/L		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	
BTEX by EPA 8021	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[0]	[E]	Result [F]	[G]				
Benzene	DN	0.1000	160.0	92	0.1	0.0968	67	5	70-125	25	
Toluene	QN	0.1000	0.0908	16	0.1	0.0961	96	6	70-125	25	
Ethylbenzene	QN	0.1000	0.0940	94	0.1	0.0999	100	6	71-129	25	
m,p-Xylenes	DD	0.2000	0.1819	91	0.2	0.1932	67	9	70-131	25	
o-Xylene	DN	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

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Project Name: Lovington Gathering WTI



Work Order #: 388134

Lab Batch ID: 822408

Date Analyzed: 09/09/2010 Reporting Units: mg/L

Batch #: QC- Sample ID: 388134-001 S

Matrix: Water ----

Project ID: 2006-142

SEE Analyst: Date Prepared: 09/08/2010

Flag Limits %RPD Control 25 25 25 25 25 Control Limits 70-125 71-129 70-125 71-133 70-131 %**.**R MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY RPD % 0 0 _ Spiked Dup. 6G 100 101 98 97 97 Spiked Sample Duplicate Result [F] 0.0974 0.1007 0.1946 0.1004 0.0979 **Spike** Added 0.1000 0.1000 0.1000 0.2000 0.1000 Ξ Spiked Sample . B] 100 98 57 66 8 Spiked Sample 0.0994 0.0999 Result 0.0977 0.0966 0.1925 Ū Spike Added [B] 0.1000 0.1000 0.2000 0.1000 0.1000 Parent Sample Result V g QN g QN QN **BTEX by EPA 8021** Analytes Ethylbenzene m,p-Xylenes o-Xylene Benzene Toluene

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

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

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Project Manager: Ca	Camilie Bryant				ł						Pro	ect Nai	j E	Ington	Gathe	Project Name: Lovington Gathering WTI	_	
Company Name Ba	Basin Environmental Service Technologies, LLC	rice Techno	logies, LLC									Projec	Project #: 2006-142	6-142				
33	P. O. Box 301										ā	oject L	x; Lea	Project Loc: Lea County, NM	MN			
	Lovington, NM 88260											2	# PA	PO #: PAA- J. Henry	5			
	(575)605-7210			Fax No:	(30	j5) 39-	(505) 396-1429				Report Format:	Format		X Standard	_] TRRP		NPDES
, ture:		FOR CO.	COBY REYN	REYNOLDS email:	ञ	brya	nt 0	basir	100-	sultir	cibryant@basin-consulting.com			425	Annings Ene			F
(ato use only)													TCLP: TOTAL:					104 ZZ
ORDER#: 2CC/CH	- 7					Ъ.	servati	00 & f	Preservation & # of Containers	alners	Matrix	89	F	əs				'81- '
		thqeD gainning Depth	belqma2 etaO	bəlqmış2 əmiT	ield Filtered otal #. of Containers	601	HCI HAO ³	105 ² H	CO2S26N HOBN	Nores Other (Specify)	ND - NOU-BOLEDIG SDECKA OLUG CM - Cloraidaeler S-Sokkou DM - Clurkuð Maler ZT-Skrað	106 M2108 1.814 :H9T 8001 XT 2001 XT :H9T	Cettons (Ce, Mg, Ne, K) Anions (Ci, SO4, Alkalinity)	Metals: As Ag Ba Cd Cr Pb Hg	SettistorimeS	N.O.R.M. RCI BTEX 8051845030 or BTEX 82		AS (eluctrature) TAT HSUA
	MW46	╂━	8/30/2010	0060		×	×			F	Ŋ	-				×		
	MW-1		8/30/2010	0630	~		×			X	GW					×		-
	MW4		8/30/2010	1045	7	×	×				GW			_				
	MW-5		8/30/2010	1120	8	×	×				ŝ		_	-+				_
	8-MA		8/30/2010	1230	2	×	×			_	GW		-			×		7
	MW-2		8/30/2010	1245	7	×	×				ßW		-	-		×	_	-
	MW-6		8/30/2010	1330 2	~	×	<u> </u>		_	4	ß	_	_	-+	4	×		-
9	MW-7		8/30/2010	1520	2	×	쒸				ß	4						
DA NV	e-win		8/30/2010	1410	~	×	×			\neg	ş	-	7	4	-			4
AM OV	8-MW		8/30/2010	1640	7	쾨	츼		4]	ßW	\neg				×		-
			1											Laboratory comments: banks contractions (MAN) VOCs Free of Headspece?	oredsper	Laboratory Comments:	60	N
Refinquished by:	Date	Time	Received by:							đ	Date	e un	Custo	seals of	s on contair	Custody seals on container(s)	9	
JOFT (DWRY	01-1-6	2:30															L.	
Reinquished by:	Date	eu	Received by:							đ		e	Sample Superson	nple Hand Delivered by Sampler/Client Rep. by Cpyrier? UPS	linent Rap	2 DHL	Ŋ	Lone Star
Relinquished by:	Date	lime L	Rapelved by El	ALD COA	WW.							em I	Temper	Temperature Upon Receipt:	on Rece	뷶	5	ູ

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

Prelogin / Nonconformance Report - Sample Log-In

Client:	Basin En	j. / Plains
Date/Time:	9.1.10	14:30
Lab ID # :	388	134
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 property 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	(NA)	
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.	
Ibs 1.5 °C ibs °C ibs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:_____Contacted by:_____Date/Time:______
Regarding: ______
Corrective Action Taken: ______
Corrective Action Taken: ______
Corrective Action Taken: ______
Contact ______
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 (AAL11), 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

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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

 Work Order Number:
 397217

Report Date: 17-NOV-10 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

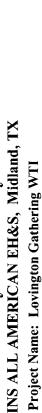
Batch 832334, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 397217-002.

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Certificate of Analysis Summary 397217 PLAINS ALL AMERICAN EH&S, Midland, TX





Contact: Jason Henry Project Id: 2006-142

Date Received in Lab: Fri Nov-12-10 04:20 pm Report Date: 17-NOV-10

Project Manager: Brent Barent Barend Barent Barent Barent Barent Barent Barent Barent Barent Barent	Project Location · Lea County NM					Report Date: 17-NUV-10	17-NUV-10	
Indivisit Requested Lab Id: Field Id: Depti $397217-001$ $397217-003$ $397217-004$ $397317-004$ $397317-004$ $397317-004$ $397317-004$ $397317-004$ $397317-003$ $397217-004$ $397317-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$ $397217-004$						Project Manager:]	Brent Barron, II	
nalysis Requested Field Id: Deptits MW-10 MW-1 MW-4 MW-5 N Deptits Deptits Matrix: WATER WATER WATER MW-4 MW-5 N Amatrix: Nov-11-10 09:00 Nov-11-10 08:00 Nov-11-10 08:30 Nov-11-10 10:00 Nov-1 BTEX by EPA 8021B Extracted: Nov-15-10 16:45 Nov-15-10 16:45<		Lab Id:	397217-001	397217-002	397217-003	397217-004	397217-005	397217-006
Deptit: Deptit: WATER Mauter Mauter	Analysis Dogradad	Field Id:	MW-10	MW-1	MW-4	MW-5	MW-8	MW-2
Matrix: WATER	naicanhay cickinut	Depth:						
Sampled: Nov-11-10 09:00 Nov-11-10 08:30 Nov-11-10 08:30 Nov-11-10 08:30 Nov-11-10 10:00 Nov-15-10 16:45 Nov-15-10 16:45<		Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
BTEX by EPA 8021B Extracted: Nov-15-10 16:45 Nov-16-10 12:36 Nov-16-10 12:		Sampled:	Nov-11-10 09:00	Nov-11-10 08:00	Nov-11-10 08:30	Nov-11-10 10:00	Nov-11-1009:30	Nov-11-10 12:00
Analyzed: Nov-16-10 11:31 Nov-16-10 12:14 Nov-16-10 12:36	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
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		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
Image: Marrier Ma		Units/RL:					mg/L RL	mg/L RL
ND 0.0020 ND 0.0010 ND 0.0010 <th< th=""><th>Benzene</th><th></th><td>0.0350 0.0010</td><td>ND 0.0010</td><td>ND 0.0010</td><td>ND 0.0010</td><td>ND 0.0010</td><td>0.0087 0.0010</td></th<>	Benzene		0.0350 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.0087 0.0010
e ND 0.0010 ND 0.00	Toluene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
s 0.0035 0.0020 ND 0.0010 ND	Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ss 0.0035 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ss 0.0355 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
es 0.0035 0.0010 ND 0.0010 ND <th< th=""><th>o-Xylene</th><th></th><th>0100.0 UN</th><th>ND 0.0010</th><th>ND 0.0010</th><th>ND 0.0010</th><th>ND 0.0010</th><th>ND 0.0010</th></th<>	o-Xylene		0100.0 UN	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
0.0385 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.

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Odessa Laboratory Manager Brefit Barron, II

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

Certificate of Analysis Summary 397217 PLAINS ALL AMERICAN EH&S, Midland, TX Project Name: Lovington Gathering WTI



Date Received in Lab: Fri Nov-12-10 04:20 pm

	Ш
17-NOV-10	Date Date
Report Date:	II man David David David David Distance II

					Project Manager: Brent Barron, II	nt Barron, II
	Lab Id:	397217-007	397217-008	397217-009	397217-010	
Ambudo Damadad	Field 1d:	9-MM	MW-7	MW-3	6-MW	
naisanhay sistinuk	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	

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 toport represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and this analytical toport upresent to be full alterby presented. Our liability is limited to the amount invoiced for this work order unless ohrevuse agreed to in writing.

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Odessa Laboratory Manager Brent Barron, II

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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.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116
•		



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Vork Orders : 397217 Lab Batch #: 832334	7, Sample: 578959-1-BKS / B	KS Batel): 2006-142		
Units: mg/L	Date Analyzed: 11/16/10 09:43		RROGATE RE		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	·	0.0344	0.0300	115	80-120	<u></u>
4-Bromofluorobenzene		0.0313	0.0300	104	80-120	
Lab Batch #: 832334	Sample: 578959-1-BSD / B	SD Batcl	h: ¹ Matrix:	Water	•	
Units: mg/L	Date Analyzed: 11/16/10 10:05	SU	RROGATE RI	ECOVERY	STUDY	
. BTE	X by EPA 8021B 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 / B	LK Batel	h: ¹ Matrix:	Water	·	
Units: mg/L	Date Analyzed: 11/16/10 10:48	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0252	0.0300	84	80-120	L
4-Bromofluorobenzene		0.0311	0.0300	104	80-120	
Lab Batch #: 832334	Sample: 397217-001 / SMP	Bate	h: ¹ Matrix:	Water		
Units: mg/L	Date Analyzed: 11/16/10 11:31	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B 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	' Bate	h: l' Matrix	:Water		
Units: mg/L	Date Analyzed: 11/16/10 11:53	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B 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.

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Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

ork Orders : 397217 Lab Batch #: 832334	, Sample: 397217-003 / SMP	Batel		D: 2006-142 ::Water		
Units: mg/L	Date Analyzed: 11/16/10 12:14	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]	80.120	
I,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	Batcl		:Water		
Units: mg/L	Date Analyzed: 11/16/10 12:36	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R D]	Control Limits %R	Flag
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	Batcl	h: 1 Matrix	Water	L	
Units: mg/L	Date Analyzed: 11/16/10 12:58		RROGATE R	-	STUDY	<u></u>
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
I,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	Batcl	h: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 11/16/10 13:20	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
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	Batel	n: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 11/16/10 13:41	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0245	0.0300	82	80-120	
		0.0287				

* 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

Vork Orders : 397217 Lab Batch #: 832334	, Sample: 397217-008 / SMP	Batcl): 2006-142 Water		
Units: mg/L	Date Analyzed: 11/16/10 14:03		RROGATE RE		STUDY	
-	X by EPA 8021B 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	Batc	h: 1 Matrix:	Water	<u> </u>	
Units: mg/L	Date Analyzed: 11/16/10 14:24		RROGATE RE		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R {D]	Control Limits %R	Flags
1,4-Difluorobenzene	7 mary (CS	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene		0.0317	0.0300	106	80-120	
Lab Batch #: 832334	Sample: 397215-001 S / MS	Bate	h: ¹ Matrix:	Water		
Units: mg/L	Date Analyzed: 11/16/10 14:46		RROGATE RE		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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 / N		-		COLIDIA	
Units: mg/L	Date Analyzed: 11/16/10 15:08	SU	RROGATE RI	COVERY	STUDY	
BTE:	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R {D]	Control Limits %R	Flags
1.4-Difluorobenzene	11	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene		0.0279	0.0300	93	80-120	
Lab Batch #: 832334	Sample: 397217-010 / SMP	Batc	h: ¹ Matrix	Water	·	
Units: mg/L	Date Analyzed: 11/16/10 16:13		RROGATE RI		STUDY	
	X by EPA 8021B 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.



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BS / BSD Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 397217 Analyst: ASA

Lab Batch ID: 832334

Date Prepared: 11/15/2010

Batch #: 1

Sample: 578959-1-BKS

Project ID: 2006-142 Date Analyzed: 11/16/2010 Matrix: Water

Units: mg/L		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / B	ILANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[<u>8</u>]		[0]	[E]	Result [F]	[6]				
Benzene	QN	0.1000	0.0961	96	0.1	0.1026	103	7	70-125	25	
Toluene	QN	0.1000	0.0930	93	0.1	9660.0	100	7	70-125	25	
Ethylbenzene	QN	0.1000	0.0935	94	0.1	0.1008	101	8	71-129	25	
m_p-Xylenes	QN	0.2000	0.1896	95	0.2	0.2038	102	L	70-131	25	
o-Xylene	QN	0.1000	0.0924	92	0.1	0.0972	16	5	71-133	25	

1 1

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

Date Analyzed: 11/16/2010 Work Order #: 397217 Lab Batch ID: 832334 **Reporting Units:** mg/L

Project ID: 2006-142 Matrix: Water ---Batch #:

> QC- Sample ID: 397215-001 S Date Prepared: 11/15/2010

ASA Analyst:

Reporting Units: mg/L		Z	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MATI	RIX SPII	KE DUPLICA'	TE RECO	DVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene .	0.2795	0.1000	0.3749	95	0.1000	0.3882	109	3	70-125	25	
Tolucne	0.1807	0.1000	0.2835	103	0.1000	0.2916	111	3	70-125	25	
Ethylhenzene	0.0126	0.1000	0.1002	88	0.1000	0.1015	68	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

Final 1.000 Page 12 of 14

Envi	Environmental Lab of Texas	I Lab of T	еха	S						CHAI	N OF	cusi	гору	RECO	RD /	ND A	CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	SIS F	EQUI	EST			
								1260 Ode:	0 Wes isa, T€	12600 West I-20 East Odessa, Texas 79765	East 9765						Phone Fax:		432-563-1800 432-563-1713	1800 1713			
ш	Project Manager: B	Ben Arguijo											-	roject	Name	Lov Lov	Project Name: Lovington Gathering WTI	Gat	lering	Ē			
0	Company Name	Basin Environmental Service Technologies, LLC	rvice Te	schnol	ogies, LLC									Ţ	oject #	Project #: 2006-142	6-142						
υ	Company Address: P.O. Box 301	. O. Box 301												Proje	ct Loc	: Lea	Project Loc: Lea County, NM	WN					
0	City/State/Zip:	Lovington, NM 88260													PO	PAA	PO #: PAA- J. Henry	Σ					
Ŧ	Telephone No: <u>5</u>	575.396.2378	ľ			Fax No:	20	(505) 396-1429	-1429				Rep	Report Format:	mat:	×	Standard	-	Ē	TRRP		NPDES	S
S	Sampler Signature:	TAY Care	8			e-mail:	,	n@b	asin	<u>pm@basinenv.com</u>	Ш											ł	Г
(lab use only)																TCLP		Analyze F		F			
ORDER #	L1625 .							Droc	sovation	Dreservation & # of Containers	f Conta	ners	Matrix			TOTAL		$\left \right $				62 89	21.105
(yino eeu dei) # EA		CODE	dîqa Depth	ting Depth	bəlqms2 ətsÜ	bəlqms2 əmiT	ield Filtered otal #. of Containers		HCI HNO ³	HO®N *OS ⁷ H	² O ₂ O ₂ S ₂ BN	Other (Specify) None	losuios – s restev brinking – Wo	PH: 418.1 8015M 8015M 8015	PH: TX1005 TX1006 Cailors (Cail Mg, Nail K)	/vions (Cl, SO4, Alkalinity)	Netals: As Ag Ba Cd Cr Pb Hg Si	volatiles Semivolatiles	3CI 31 EX 803 18/2030 or B1EX 8360	N.O.R.M.		V2 (olipped-2-sold TVT HSIId	RUSH TAT (Pre-Schedule) 24, YAG & TAT ADAY
 	MW-10	-10		3	11/11/2010	0060		×	×	-			1 4		+		ŧ		-				×
	1-WM	<u>4-1</u>				0800	6	×	×				GW						×				×
	MW-4	4-4			11/11/2010	0830	3	×	×				ş						×		-+		<u>×</u>
	MW-5	4-5			11/11/2010	1000	3	×	X				В	_				-	×	_	-	1	쒸
	MW-8	/-8			11/11/2010	0830	9	×	×				9 S						×	_	-		<u>×</u>
	MW-2	1-2			11/11/2010	1200	~	×	×				ß					\rightarrow	×	1	-+	1	-
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	7-WM	-7			11/11/2010	1100	m 	×	×				ß					-	\mathbf{x}		\rightarrow	1	
-	MW-3	-3			11/11/2010	1130	m	×	×				Š	_			_		×		-	1	1
	6-MW	6-1			11/11/2010	1230	m	×	×				GW						×		-		-1
Special Instructions:	structions:														202	ample OCs Fr	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	nment ers Int eadsp	s: act? ace?		(906)		zzz
Relinquished by	d by:	Date 11/12/10	1:30		Received by:							1/b//		Time BDD		ibels o ustody ustody	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	iner(s) n cont n cool	ainer(s ar(s)		ઝહ		zz
Relinquished by:	d by:	Date			Received by:									Time	T		Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	elivere Client F	r Sec. S	БН	€) €) E E E E E E E E E E E E E E E E E	Ē	St z z
Relinquished	d by:	Date II/12/2	Time	Lime	Received by ELOT	17: 11. 1	~·					Date		Time	C	empera	Temperature Upon Receipt:	on Ré	C Se Si Si Si Si Si Si Si Si Si Si Si Si Si		•	~ ~	ပ္



XENCO Laboratories

Attanta, Boca Raton, Corpus Christi, Dallas

Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

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Prelogin / Nonconformance Report - Sample Log-In

Plains Lig Client: PW4POODPEF Date/Time: 11-12-10 16:20 Lab ID # : 39 7217 Initials:

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?	Tes	No	(N/A)	27
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?	Tes	No		
8. Chain of custody agrees with sample label(s)?	Tes	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 property 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 N	0.	Cooler 5 No	
lbs 3.1 °C lbs °C lbs °C	ibs	°C	lbs	°c

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:	· · · · · · · · · · · · · · · · · · ·	
Corrective Action Take	ิก:	

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condition acceptable by NELAC 5.5.8.3.1.a.1. Initial and Backup Temperature confirm out of temperature conditions

Page 14 of 14

Client understands and would like to proceed with analysis

Appendix B Release Notification & Corrective Action (Form C-141)

(1) 0 0 0 @

0 Ø **(II)**

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District 1	
1625 N. Frenc	h Dr., Hobbs, NM 88240
District II	
1301 W. Gran	d Avenue, Artesia, NM 88210
District III	zos Road, Aztec, NM 87410
1000 Rio Braz	cos Road, Aztec, NM 87410
District IY	
CM 220 S. St. Fr	ancis 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

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

P			Rele	ase Notific	catio	and Co	rrective A	ction					
						OPER A			x Initi	al Report		Final Re	port
Name of Co							nille Reynolds						
		Hwy 82, Lov		<u>M 88260</u>			10. 505-441-096						
Facility Nar	ne Loving	ton Gatherin	gWII			Facility Typ	e 6"Steel Pipeli	ne]
📜 Surface Ow	ner Rober	t Rice		Mineral C	Owner	······			Lease N	No.			
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter	Section 6	Township 17S	Range 37E	Feet from the	North	/South Line	Feet from the	East/W	Vest Line	County Lea			
		Latitud	e <u>32°51</u>	' 56.0"		_ Longitude	<u>103° 17' 07.2</u>	,,		54			
@ 				NAT	FURE	OF REL							
Type of Rele					·····		Release 12 barre			Recovered Hour of D			
	icase o Su	ær ripenne				4-21-2006		ж ,		6@13:15			
Was Immedi	ate Notice (Yes [] No 🗍 Not R	equired	If YES, To Pat Capert				6	22232	A 2526	2)
By Whom? (lour 4-21-2006 @			10		1	25
Was a Water	course Rea	ched?	Yes 🛛	No		IFYES, V	olume Impacting	the Wate	ercourse.	11819	E. S.		ξ. I
Ulf a Watercon	urse was In	pacted, Descr	ibe Fully.	¢						101	4.	WA_	
Ŷ										1913161	\sim $^{\circ}$	*3	
										25/			
The sweet or	ude has an	H_2S content o	f <10 ppm	. The line was ap	pproxim	ately 1.5 feet	proximately 50 ps bgs at the release	point.	c gravity o	the sweet	crude oi	I was 34.	
Describe Are approximate	a Affected y 1,500 ft ² .	and Cleanup /	Action Tal	cen.* The impacto	ed soil v	vas excavated	and stockpiled or	n plastic	. Aerial ex	dent of sur	face impa	ict was	
Å													
public health	or the envi or the envi operations h	norment. The nave failed to a addition, NMC	acceptance adcquately DCD accept	ce of a C-141 rep	ort by the	te NMOCD m	knowledge and u nd perform correct arked as "Final R ion that pose a thr re the operator of	ctive acti cport" d	ions for rel	leases whic	th may en perator of	idanger liability	h
Signature	an	ille 1	Kay	nolds	5		OIL CON	SERV	ATION	DIVISI	ON		
Printed Name	: Camille I	Reynolds	1 0			Approved by	District Supervis	or:				-	-
Ditle: Remed	iation Coor	dinator				Approval Da	ie:	I	Expiration	Date:			
D-mail Addre		lds@paalp.co	m]	Conditions of	f Approval:						~~~~
Date: 4/26/20	106			Phone:505-441	-					Attache	d 🔲		