AP - 54

ANNUAL MONITORING REPORT

YEAR(S): 2007

TALON LPE
"All the Pieces"

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HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
2007 ANNUAL GROUNDWATER MONITORING REPORT
LEA COUNTY, NEW MEXICO
PLAINS SRS #2003-00017

Section 26, Township18 South, Range 37 East

Prepared for:

PLAINS MARKETING, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared by:

Talon/LPE
Shanna L. Smith
318 E. Taylor Street
Hobbs, New Mexico 88240

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Copy 1 – Plains Lovington
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Copy 4 – NMOCD Santa Fe
Copy 5 – NMSLO Santa Fe
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March 28, 2008

PLAINS
ALL AMERICAN

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2008 APR 1 PM 2 13

March 28, 2008

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

Re: Plains All American – Annual Monitoring Reports
6 Sites in Lea 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:

CS Caylor	Section 6, Township 17 South, Range 37 East, Lea County
Lovington Deep 6"	Section 6, Township 17 South, Range 36 East, Lea County
Hobbs Junction Mainline	Section 26, Township 18 South, Range 37 East, Lea County
Kimbrough Sweet 8"	Section 3, Township 18 South, Range 37 East, Lea County
8" Moore to Jal #1	Section 16, Township 17 South, Range 37 East, Lea County
8" Moore to Jal #2	Section 16, Township 17 South, Range 37 East, Lea County

Talon LPE 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 Talon 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 (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

Hobbs Junction Mainline
2007 Annual Groundwater Monitoring Report

Plains Marketing, L.P.
Houston, Texas

Talon/LPE PROJECT NO. PLAINS047SPL

Prepared by:

Shanna L. Smith
Project Manager

Kyle Waggoner
Regional Manager

Talon/LPE
318 E. Taylor Street
Hobbs, New Mexico 88240

March 2008

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Camille Reynolds	Remediation Coordinator	Plains All American Pipeline	3112 West U.S. Hwy 82 Lovington, NM 88260	cjreynolds@paalp.com
Jeff Dann	Senior Environmental Specialist	Plains All American Pipeline	P. O. Box 4648 Houston, TX 77210-4648	jpdann@paalp.com
File		Talon/LPE	318 East Taylor Street Hobbs, New Mexico 88240	ssmith@talonlpe.com

NMOCD - New Mexico Oil Conservation Division
NMSLO – New Mexico State Land Office

CONTENTS

Appendices

ANNUAL GROUNDWATER MONITORING REPORT

1.0 Introduction

The Hobbs Junction Mainline release site is located approximately 3 miles west of Hobbs, in Lea County, New Mexico. The south side of the site is owned by Ms. Faye Klein and the property to the north is owned by the State of New Mexico.

On January, 23, 2003, a release of approximately 50 barrels (bbls) of crude oil with 24 bbls recovered from a Plains Pipeline, L.P. (Plains) pipeline at this location. The release impacted approximately 12,500 square feet of pipeline right-of-way. Approximately 84 cubic yards of impacted soil was transported to the Environmental Plus, Inc. Landfarm for treatment. Site delineation activities that began in February 2003 revealed that the initial soil boring BH-1 contained groundwater impact.

2.0 Previous Groundwater Investigation/Remediation

In addition to the soil evaluation at the site, a total of twenty-two monitor wells were installed in the vicinity of the release (see Figure 1). Initial delineation activities began on February 13, 2003, by advancing a soil boring BH-1 to 28 feet bgs where an indurated caliche layer prevented further advancement. On March 5, 2003, monitor wells MW-1 and MW-2 were installed to evaluate the presence of phase separated hydrocarbons (PSH). Monitor wells MW-3 through MW-6 were installed in August 2003. After developing monitor wells MW-3 through MW-6, PSH was detected in all the wells. On January 19 and 20, 2004, monitor wells MW-7 through MW-13 were installed to delineate the dissolved phase plume. Subsequent to development, PSH was detected in monitor well MW-12. Monitor wells MW-14 through MW-17 were installed on May 24, 2004, outside the release perimeter. PSH was detected in monitor wells MW-14 and MW-17. Monitor wells MW-18 through MW-20 were installed in November 2006, and monitor wells MW-21 and MW-22 were installed on December 5, 2007, to further delineate the dissolved phase plume.

PSH recovery operations have been performed at the site since March 2004. Approximately 61,800 gallons (1,470 bbls) of PSH have been recovered to date.

3.0 Groundwater Gradient

Monitor wells at the site are regularly gauged to determine the depth to groundwater and PSH thickness. Based on existing data, the groundwater gradient appears to be primarily toward the east-southeast. The groundwater gradient slope is 0.006 ft/ft. Groundwater gradient maps are presented as Figures 2a through 2d.

4.0 PSH Recovery

An automated eductor recovery system was installed at the site in March 2004. In March 2007, the automated eductor recovery system was replaced with an automated skimmer recovery system. In 2007, approximately 4,368 gallons (104 bbls) of crude oil were recovered and reintroduced into the Plains pipeline system at Lea Station.

5.0 Groundwater Sampling

Groundwater sampling events occurred on March 28, June 20, September 19, and December 5, 2007. Based on recommendations of the NMOCD, monitor wells MW-7 through MW-9 and MW-13 were sampled and analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) semi-annually and poly-aromatic hydrocarbons (PAH) annually. Monitor wells MW-10, MW-11, MW-16, and MW-15 through MW-20 were sampled and analyzed quarterly for BTEX and annually for PAH. During the sampling events of March 28 and September 19, 2007, monitor wells MW-7 through MW-11, MW-13, MW-16 and MW-18 through MW-20 were submitted for quantification of BTEX using SW-846 method 8021B and for quantification of PAH's using EPA/SW-846 Methods 610 and 8270C. During the sampling events of June 20 and December 5, 2007, monitor wells MW-10, MW-11, MW-16, and MW-18 through MW-20 were submitted for quantification of BTEX using SW-846 method 8021B.

Monitor wells MW-21 and MW-22 were installed and sampled on December 5, 2007. The monitor wells were submitted for quantification of BTEX using SW-846 method 8021B.

Groundwater samples were not collected from monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 in 2007 due to the presence of PSH. These monitor wells will be added to the quarterly sampling/analysis when PSH is no longer present.

The Klein irrigation well was not sampled in 2007, due to the well being removed from operation by the landowner, Ms. Klein.

6.0 Groundwater Analytical Results

Groundwater analytical data from this site was compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. The following paragraphs provide summaries of the analytical results from each groundwater sampling event of 2007. Analytical results for the four sampling events are summarized in Table 2 (BTEX), Table 3 (PAH), and Figures 3a through 3d. Laboratory data sheets are included as Appendix C.

New Mexico Water Quality Control Commission (NMWQCC) groundwater standards

Compound	mg/L
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH's	0.030

March 28, 2007

During the April 2, 2007 sampling event, groundwater samples collected from monitor wells MW-7 through MW-11, MW-13, MW-16, and MW-18 through MW-20 were submitted for quantification of BTEX and PAH. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-8, MW-10, MW-11, MW-16, and MW-18 through MW-20. The BTEX constituent concentrations exceeded the NMWQCC groundwater standard in monitor wells MW-8 (benzene at 0.0113 mg/L), MW-10 (benzene at 6.22 mg/L), MW-11 (benzene at 17.5 mg/L, ethylbenzene at 1.88 mg/L, and total xylenes at 1.453 mg/L), MW-16 (benzene at 0.01 mg/L), and MW-20 (benzene at 20.7 mg/L, toluene at 1.39 mg/L, ethylbenzene at 1.61 mg/L, and total xylenes at 1.272 mg/L). PAH constituents were detected above the laboratory reporting limit in monitor well MW-10 (naphthalene at 0.015 mg/L). PAH constituents were reported above the NMWQCC groundwater standards for monitor wells MW-11 (naphthalene at 0.058 mg/L) and MW-20 (naphthalene at 0.056 mg/L).

Monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 were not sampled due to presence of PSH.

June 20, 2007

During the June 20, 2007 sampling event, groundwater samples collected from monitor wells MMW-10, MW-11, MW-16, and MW-18 through MW-20 were submitted for quantification of BTEX. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-10, MW-11, MW-16, and MW-20. The BTEX constituent concentrations exceeded the NMWQCC groundwater standard in monitor wells MW-10 (benzene at 4.648 mg/L), MW-11 (benzene at 17.86 mg/L, toluene at 1.420 mg/L, ethylbenzene at 1.836 mg/L, and total xylenes at 1.487 mg/L), and MW-20 (benzene at 20.17 mg/L and ethylbenzene at 1.624 mg/L).

Monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 were not sampled due to presence of PSH. Monitor wells MW-7, MW-8, MW-9, and MW-13 were not scheduled for sampling during this event.

September 19, 2007

During the September 19, 2007 sampling event, groundwater samples collected from monitor wells MW-7 through MW-11, MW-13, MW-16, and MW-18 through MW-20 were submitted for quantification of BTEX. The BTEX constituent concentrations exceeded the NMWQCC groundwater standard in monitor wells MW-11 (benzene at 18.35 mg/L, toluene at 0.5280 mg/L, ethylbenzene at 1.3990 mg/L, and total xylenes at 0.8220 mg/L) and MW-20 (benzene at 31.67 mg/L, and ethylbenzene at 1.850 mg/L).

Monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 were not sampled due to presence of PSH.

December 5, 2007

During the December 5, 2007 sampling event, groundwater samples collected from monitor wells MW-10, MW-11, MW-16, and MW-18 through MW-22 were submitted for quantification of BTEX. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-10, MW-11, MW-16, and MW-18 through MW-22. The BTEX constituent concentrations exceeded the NMWQCC groundwater standard in monitor wells MW-10 (benzene at 7.375 mg/L), MW-11 (benzene at 17.89 mg/L, toluene at 1.365 mg/L, ethylbenzene at 1.290 mg/L, and total xylenes at 1.011 mg/L), MW-20 (benzene at 31.41 mg/L and ethylbenzene at 1.749 mg/L), MW-21 (benzene at 0.0590 mg/L), and MW-22 (benzene at 0.1621 mg/L).

Monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 were not sampled due to presence of PSH (reference Figure 3d). Monitor wells MW-7, MW-8, MW-9, and MW-13 were not scheduled for sampling during this event.

7.0 Recommendations

Based on field monitoring and analytical results collected during 2007, the following activities are recommended for the site:

1) Gauge the monitor wells weekly to record water and PSH levels.

2) Based on the weekly gauging of monitor wells, convert the core PSH area to total fluid pumps and reconfigure the existing skimmer recovery system to achieve more efficient PSH recovery.

3) Monitor wells MW-7 through MW-9 and MW-13 will be sampled and analyzed for BTEX semi-annually and PAH's annually.

4) Monitor wells MW-10, MW-11, MW-16, and MW-18 through MW-22 will be sampled and analyzed for BTEX quarterly and PAH annually.

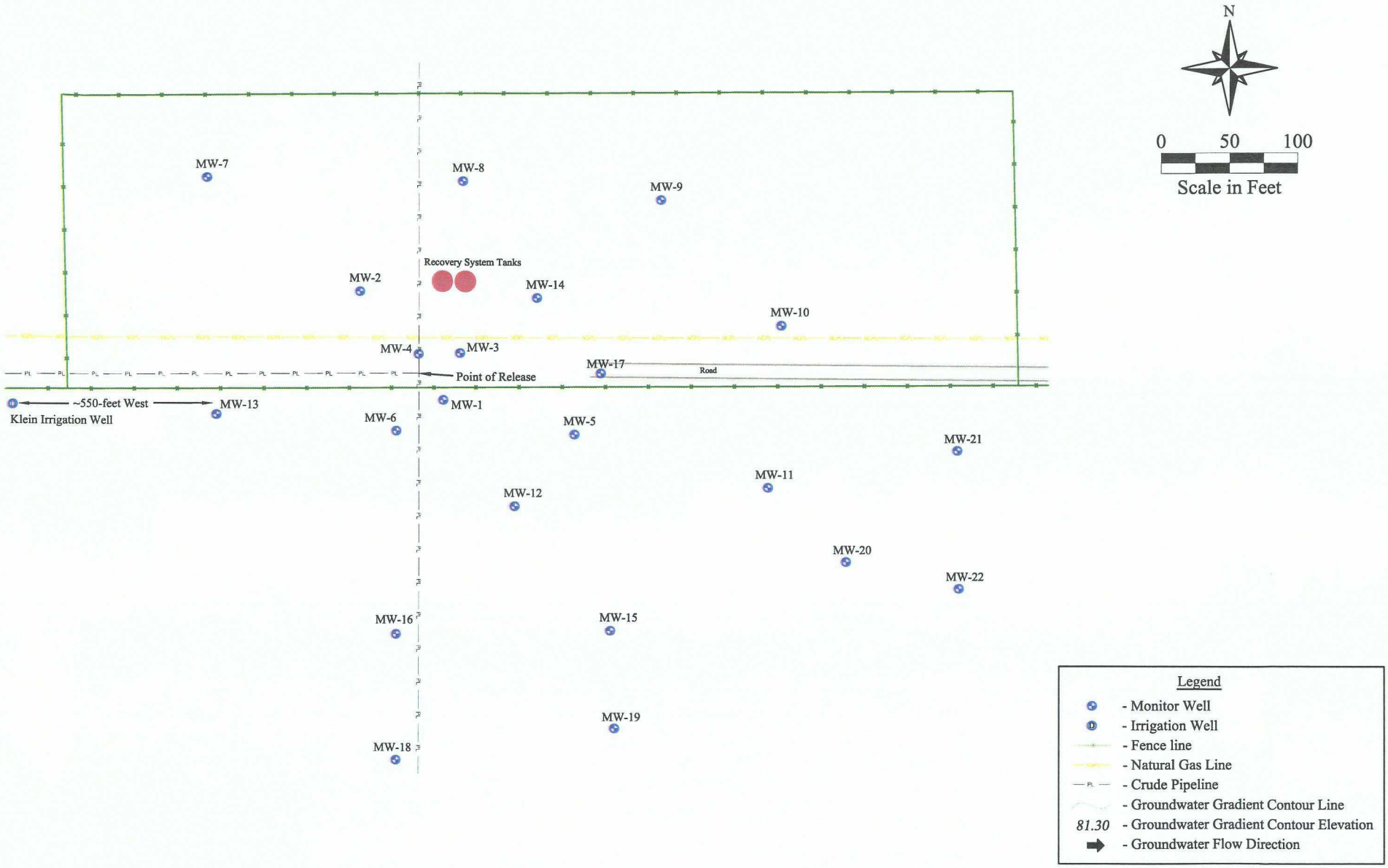
5) Monitor wells MW-1 through MW6, MW-12, MW-14, MW-15, or MW-17 will be added to the quarterly sampling/analysis schedule when PSH is no longer present in each well. Pursuant to the request of the NMOCD, Plains will collect a discrete sample below the PSH in the water table from these monitor wells on a yearly basis to evaluate BTEX, TPH, and PAH concentrations in the groundwater.

6) Two additional monitor wells will be installed in 2008 to address down-gradient delineation of the dissolve-phase plume.

7) A recommendation, to address the soil issues, will be submitted to the NMOCD in 2008.

Appendix A
Drawings

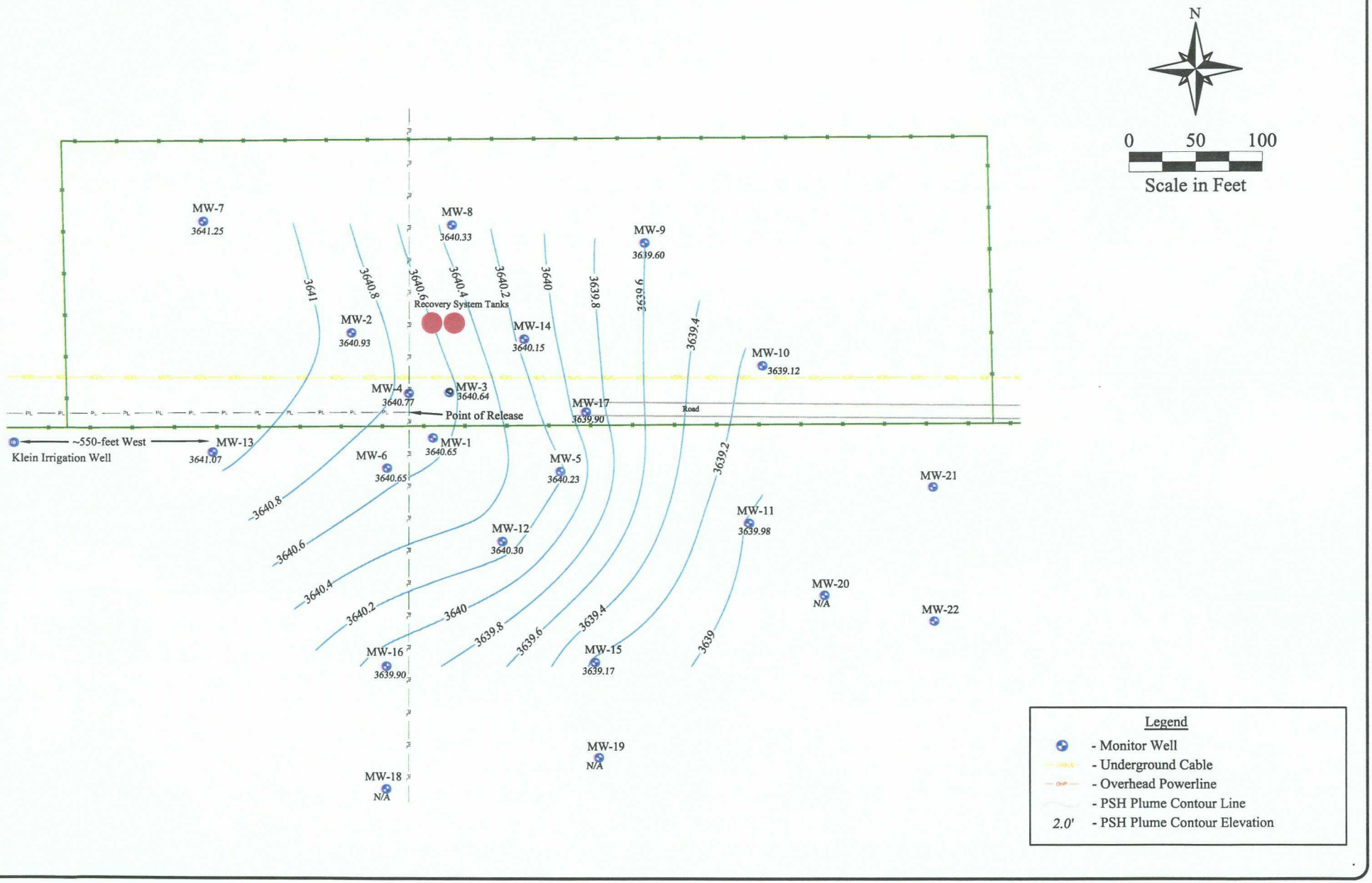
Figure 1 – Site Plan
Figure 2a – Groundwater Gradient Map (03/28/2007)
Figure 2b – Groundwater Gradient Map (06/20/2007)
Figure 2c – Groundwater Gradient Map (09/19/2007)
Figure 2d – Groundwater Gradient Map (12/05/2007)
Figure 3a – PSH Thickness & Groundwater Concentration Map (03/28/2007)
Figure 3b – PSH Thickness & Groundwater Concentration Map (06/20/2007)
Figure 3c – PSH Thickness & Groundwater Concentration Map (09/19/2007)
Figure 3d – PSH Thickness & Groundwater Concentration Map (12/05/2007)



TALON LPE

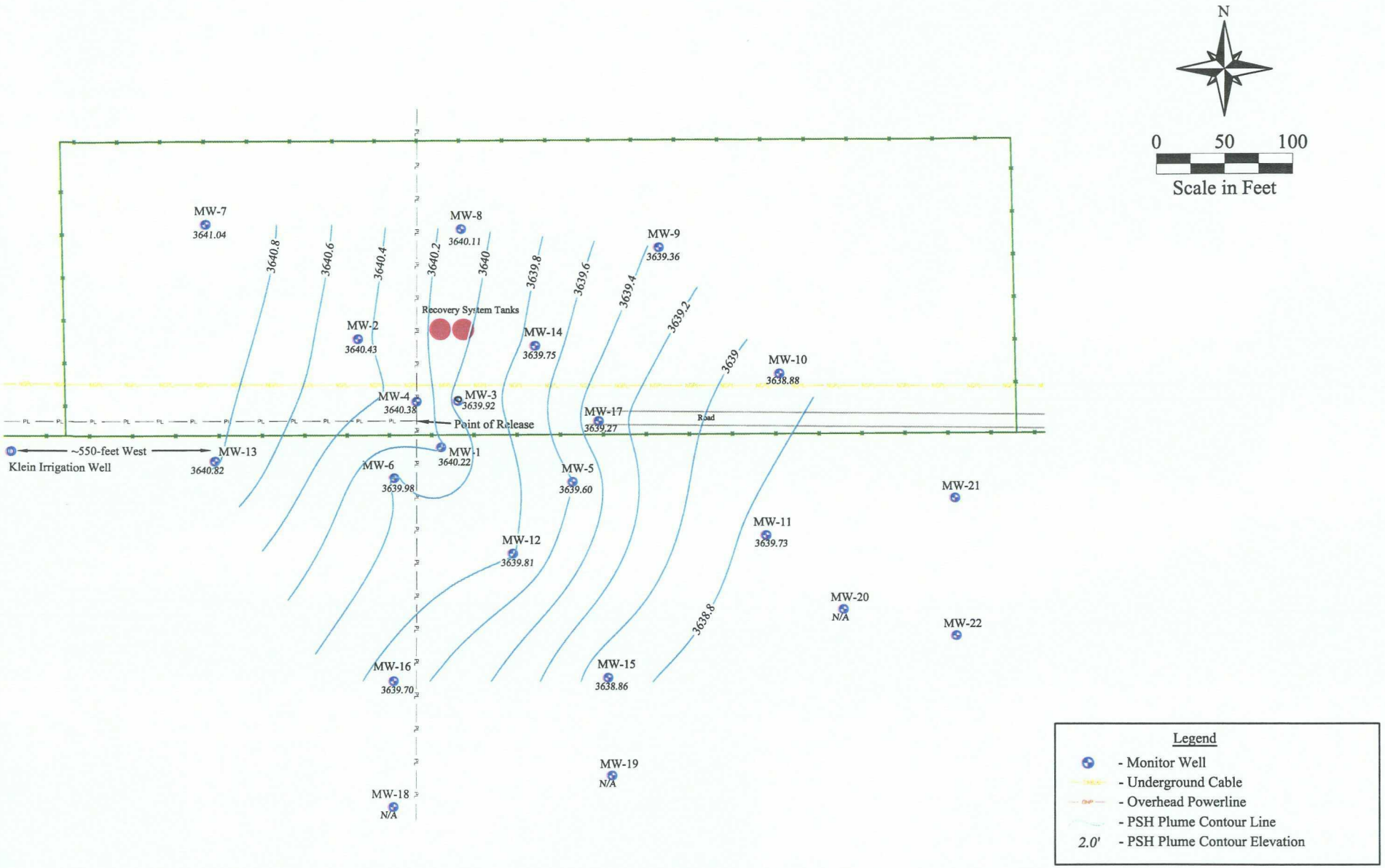
Date: 12/26/2007	
Scale: 1" = 100'	
Drawn By: SJA	

Hobbs Junction Mainline #2003-00017
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E
Lea County, New Mexico
Figure 1 - Site Plan



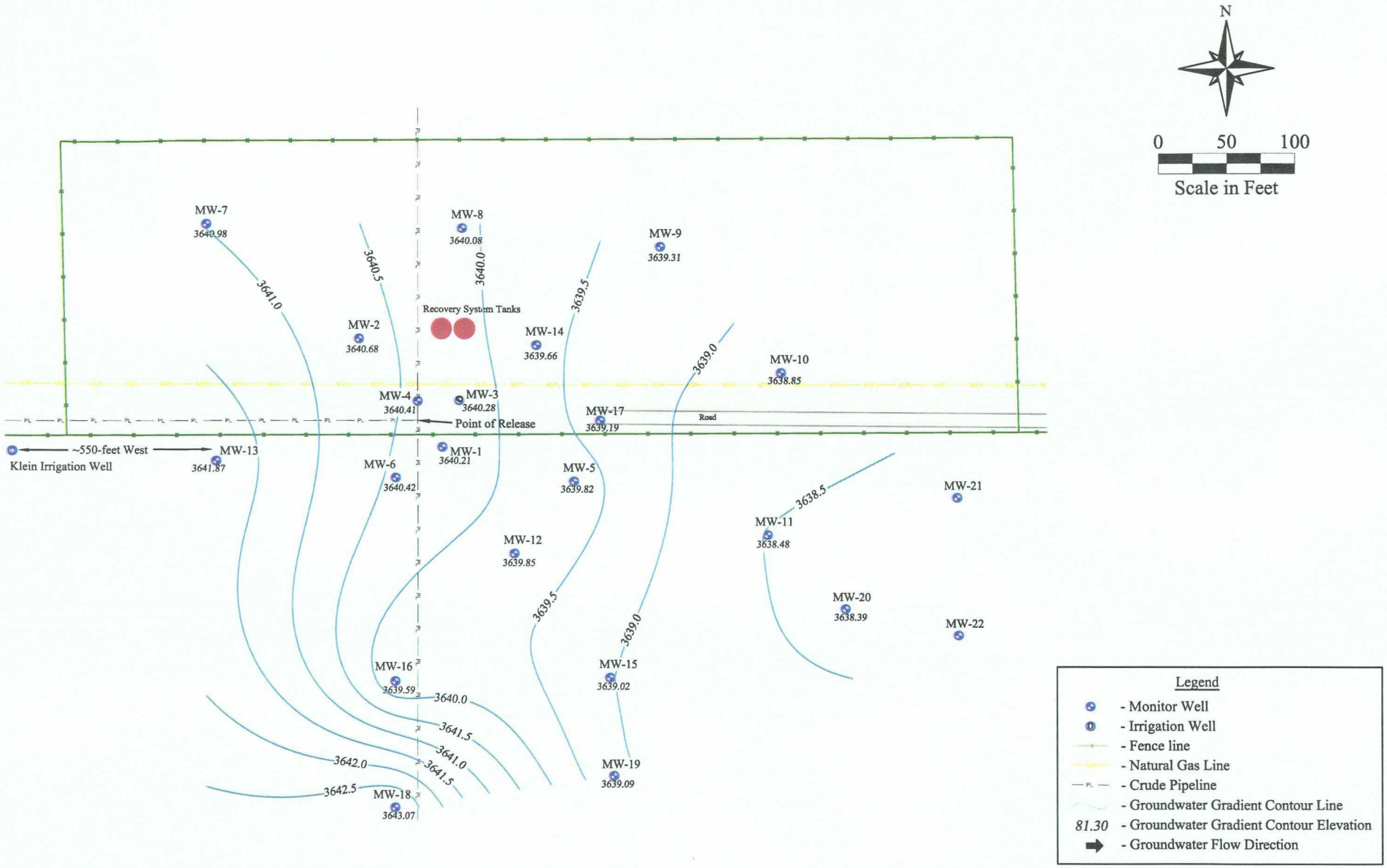
TALON LPE

Date: 02/12/2008	Hobbs Junction Mainline #2003-00017
Scale: 1" = 100'	SW 1/4, SW 1/4, of Sec. 26, T18S, R37E
Drawn By: SJA	Lea County, New Mexico
	Figure 2a - Groundwater Gradient Map, (03/28/2007)



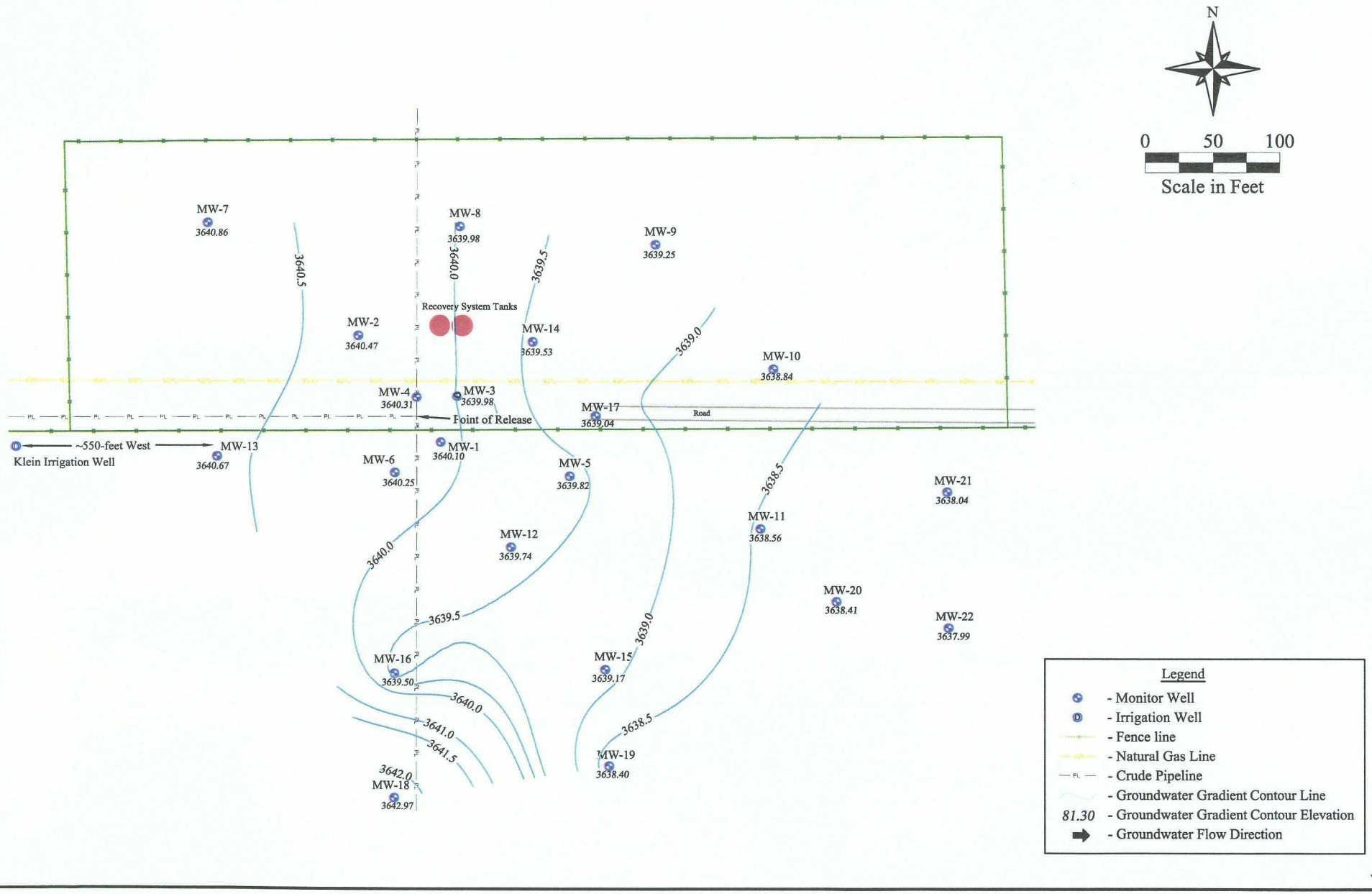
TALON LPE

Date: 02/12/2008	Hobbs Junction Mainline #2003-00017
Scale: 1" = 100'	SW 1/4, SW 1/4, of Sec. 26, T18S, R37E
Drawn By: SJA	Lea County, New Mexico
	Figure 2b - Groundwater Gradient Map, (06/20/2007)



TALON LPE

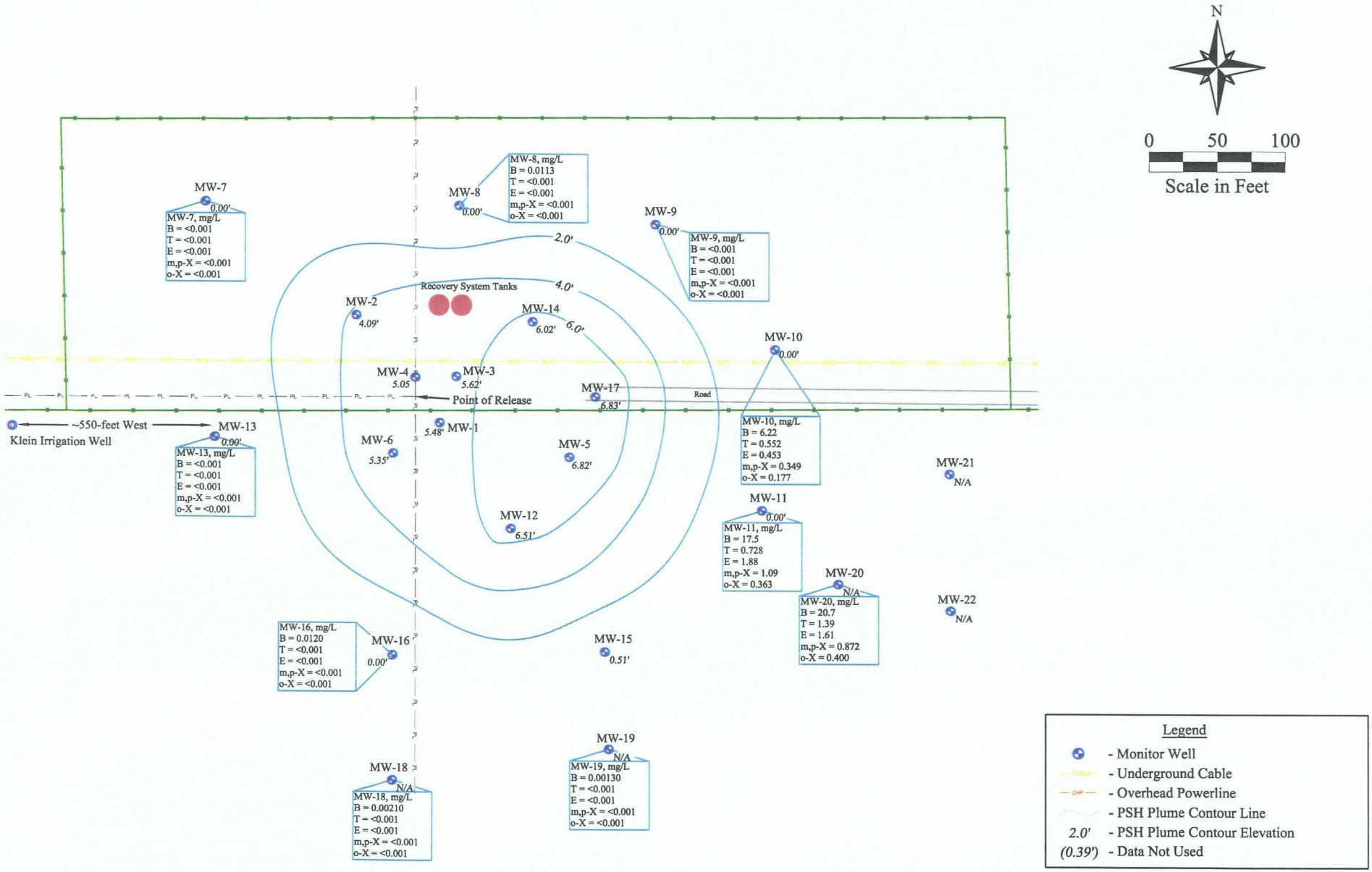
Date: 02/13/2008	Hobbs Junction Mainline #2003-00017
Scale: 1" = 100'	SW 1/4, SW 1/4, of Sec. 26, T18S, R37E
Drawn By: SJA	Lea County, New Mexico
	Figure 2c - Groundwater Gradient Map, (09/19/2007)



TALON LPE

Date: 02/13/2008	
Scale: 1" = 100'	
Drawn By: SJA	

Hobbs Junction Mainline #2003-00017
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E
Lea County, New Mexico
Figure 2d - Groundwater Gradient Map, (12/05/2007)



TALON LPE

Date: 02/28/2008

Scale: 1" = 100'

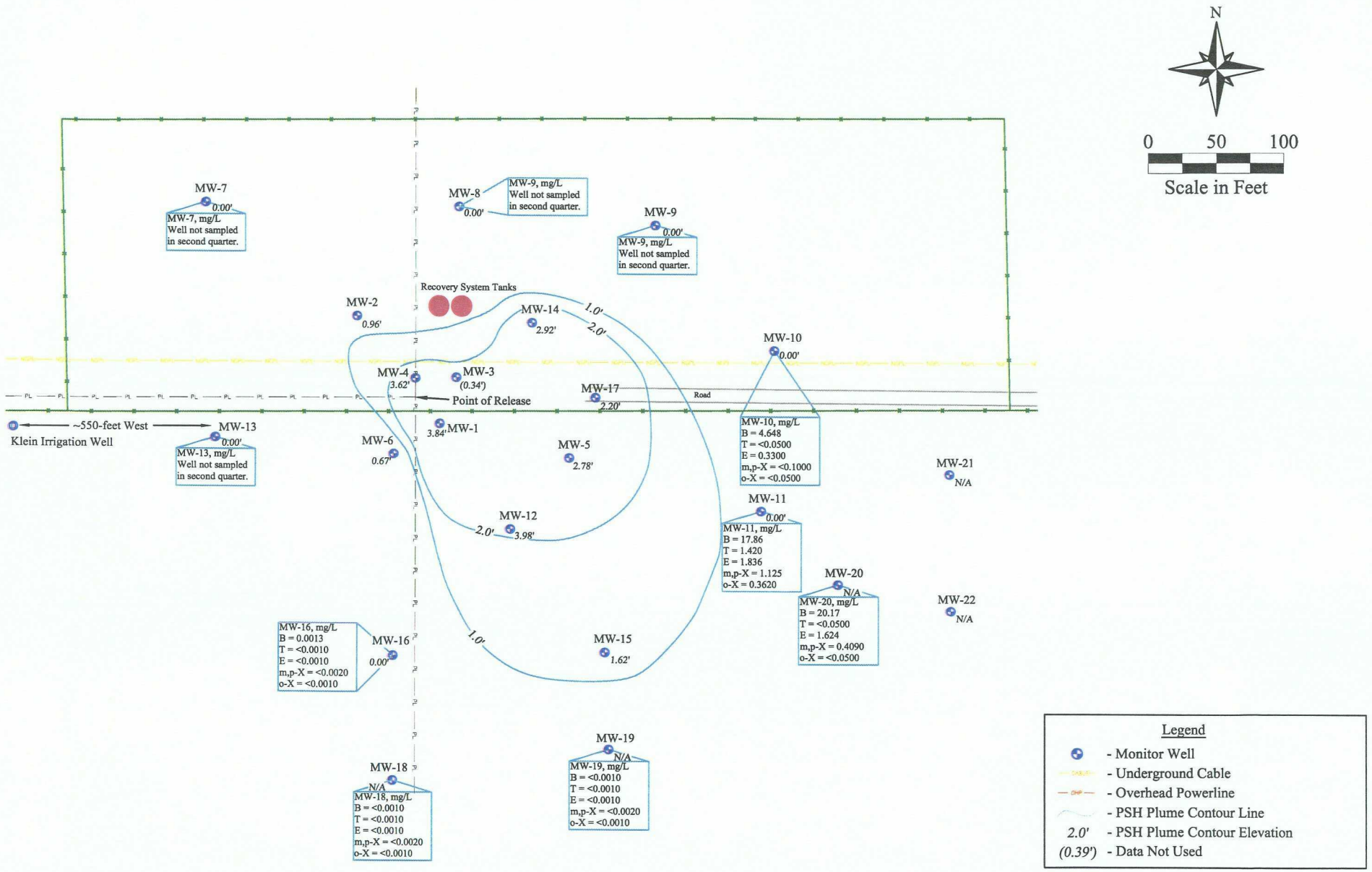
Drawn By: SJA

Hobbs Junction Mainline

SRS # 2003-00017 , NMOCD REF. # AP-054

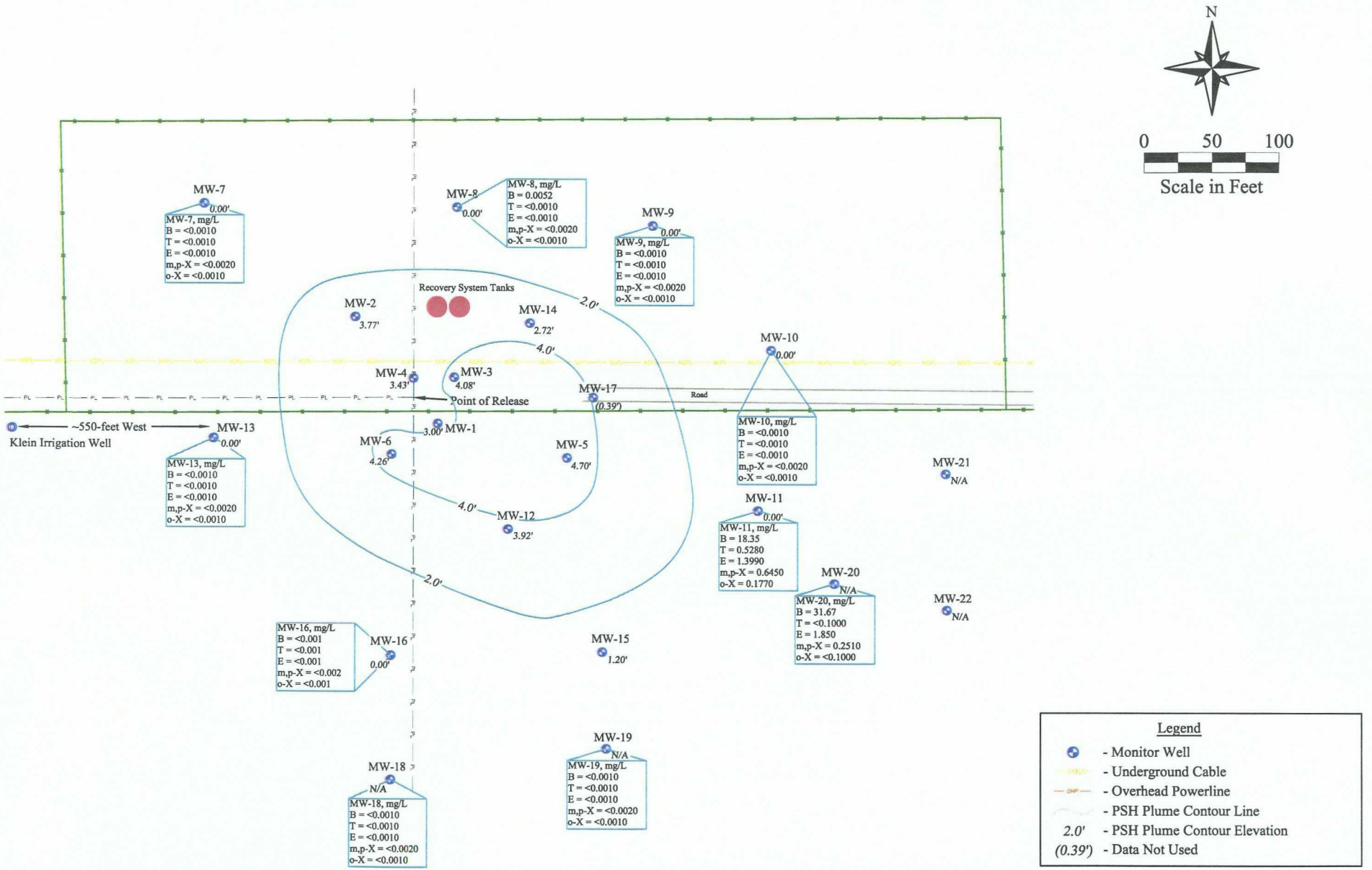
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (03/28/2007)



TALON LPE

Date: 02/28/2008	Hobbs Junction Mainline
Scale: 1" = 100'	SRS # 2003-00017 , NMOCD REF. # AP-054
Drawn By: SJA	SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
	Figure 3b - PSH Thickness & Groundwater Concentration , (06/20/2007)



TALON LPE

Date: 02/28/2008

Scale: 1" = 100'

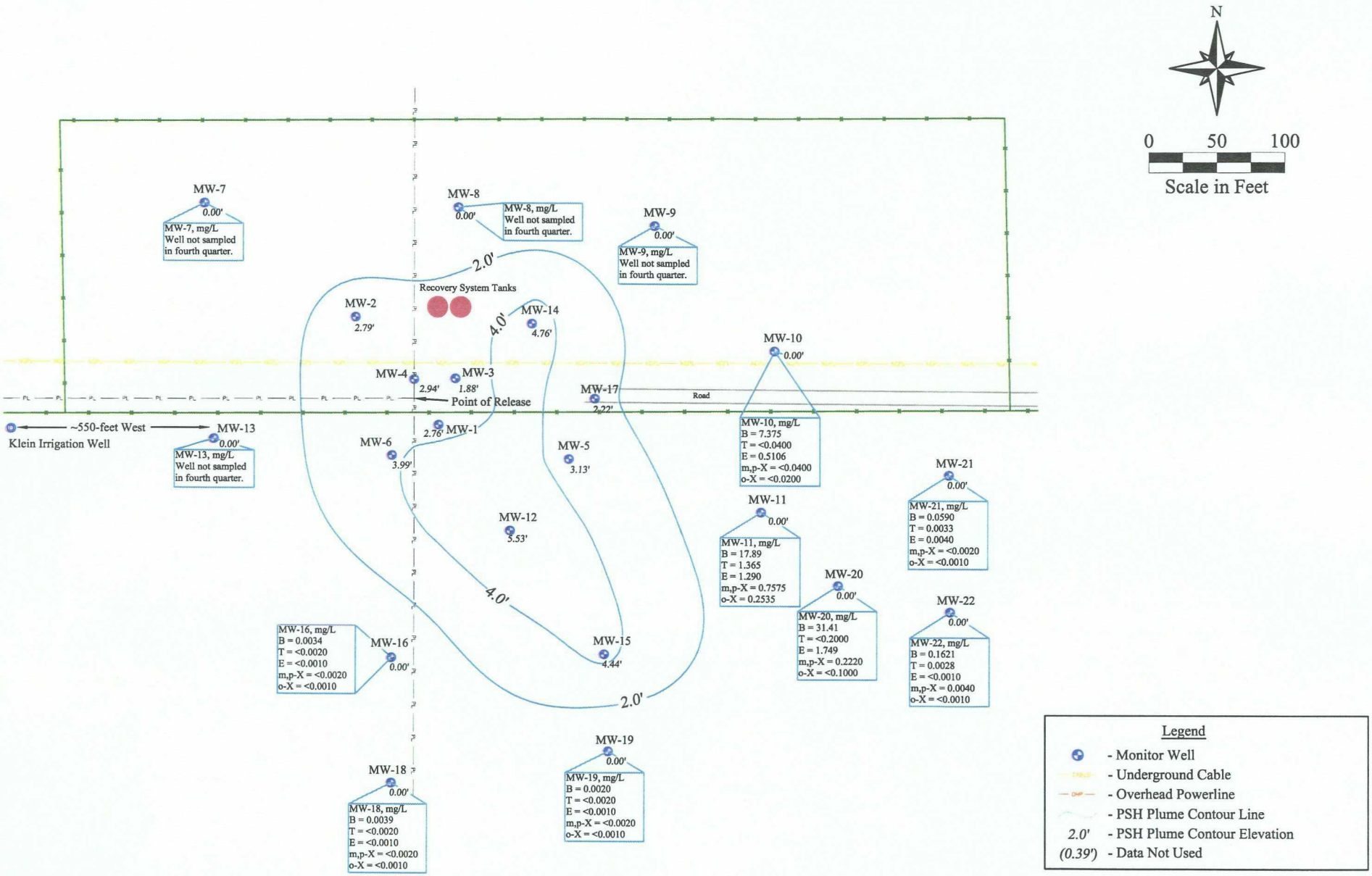
Drawn By: SJA

Hobbs Junction Mainline

SRS # 2003-00017 , NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/19/2007)



TALON LPE

Date: 02/28/2008

Scale: 1" = 100'

Drawn By: SJA

Hobbs Junction Mainline

SRS # 2003-00017 , NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map, (12/05/2007)

APPENDIX B

Tables

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-1	06/23/03	3,678.50	38.49	45.43	6.94		3,639.32
MW-1	06/25/03		38.48	45.43	6.95		3,639.33
MW-1	07/01/03		36.64	48.25	11.61		3,640.70
MW-1	07/07/03		38.73	45.55	6.82		3,639.09
MW-1	07/22/03		37.32	48.05	10.73		3,640.11
MW-1	07/23/03		37.33	48.06	10.73		3,640.10
MW-1	07/24/03		37.40	47.90	10.50		3,640.05
MW-1	07/30/03		37.41	47.90	10.49		3,640.04
MW-1	10/13/03		36.81	47.34	10.53		3,640.64
MW-1	12/11/03		37.79	46.85	9.06		3,639.80
MW-1	12/15/03		37.75	46.77	9.02		3,639.85
MW-1	02/18/04		38.42	47.64	9.22		3,639.16
MW-1	03/29/04		37.45	45.35	7.90		3,640.26
MW-1	04/29/04		38.26	42.18	3.92		3,639.85
MW-1	05/03/04		37.44	46.11	8.67		3,640.19
MW-1	07/12/04		38.34	45.66	7.32		3,639.43
MW-1	12/09/04		35.90	43.54	7.64		3,641.84
MW-1	02/16/05		35.15	42.54	7.39		3,642.61
MW-1	03/31/05		35.27	42.81	7.54		3,642.48
MW-1	05/13/05		35.31	42.60	7.29		3,642.46
MW-1	05/26/05		35.41	42.61	7.20		3,642.37
MW-1	06/28/05		35.48	42.65	7.17		3,642.30
MW-1	08/15/05		35.72	42.16	6.44		3,642.14
MW-1	11/14/05		36.26	41.80	5.54		3,641.69
MW-1	01/23/06		36.71	42.14	5.43		3,641.25
MW-1	03/02/06		36.36	41.41	5.05		3,641.64
MW-1	06/01/06		37.58	42.01	4.43		3,640.48
MW-1	08/14/06		37.63	43.68	6.05		3,640.27
MW-1	11/28/06		37.27	42.50	5.23		3,640.71
MW-1	12/12/06		37.25	41.49	4.24		3,640.83
MW-1	01/09/07		37.31	42.71	5.40		3,640.65
MW-1	02/08/07		37.25	42.78	5.53		3,640.70
MW-1	02/27/07		37.34	42.88	5.54	8.00	3,640.61
MW-1	03/09/07		37.30	42.74	5.44		3,640.66
MW-1	03/13/07		37.28	42.78	5.50	4.00	3,640.67
MW-1	03/15/07		37.31	42.79	5.48	4.00	3,640.64
MW-1	03/23/07		37.32	42.80	5.48		3,640.63
MW-1	03/28/07		37.30	42.78	5.48		3,640.65
MW-1	04/12/07		38.03	42.40	4.37		3,640.03
MW-1	04/18/07		37.47	42.61	5.14		3,640.52
MW-1	05/23/07		38.28	42.24	3.96		3,639.82
MW-1	06/20/07		37.90	41.74	3.84		3,640.22
MW-1	06/28/07		37.87	41.69	3.82		3,640.25
MW-1	07/18/07		37.95	41.63	3.68		3,640.18
MW-1	08/15/07		37.74	42.62	4.88		3,640.27
MW-1	08/22/07		38.41	39.20	0.79		3,640.01
MW-1	08/28/07		38.76	39.08	0.32		3,639.71
MW-1	09/19/07		37.99	40.99	3.00		3,640.21
MW-1	09/25/07		39.30	39.93	0.63		3,639.14
MW-1	10/09/07		38.52	38.90	0.38		3,639.94
MW-1	10/17/07		38.51	38.88	0.37		3,639.95
MW-1	10/26/07		38.49	38.91	0.42		3,639.97
MW-1	11/05/07		38.16	42.11	3.95		3,639.95
MW-1	11/12/07		38.51	38.96	0.45		3,639.95
MW-1	12/05/07		38.12	40.88	2.76		3,640.10

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-2	06/26/03	3,679.47	38.72	44.93	6.21		3,640.13
MW-2	07/01/03		38.65	45.42	6.77		3,640.14
MW-2	07/22/03		38.63	45.63	7.00		3,640.14
MW-2	07/23/03		38.64	45.63	6.99		3,640.13
MW-2	07/24/03		39.20	43.57	4.37		3,639.83
MW-2	07/30/03		39.21	43.58	4.37		3,639.82
MW-2	12/11/03		38.88	45.51	6.63		3,639.93
MW-2	12/15/03		38.84	45.41	6.57		3,639.97
MW-2	03/23/04		38.36	44.52	6.16		3,640.49
MW-2	03/29/04		38.47	44.04	5.57		3,640.44
MW-2	04/29/04		38.16	48.06	9.90		3,640.32
MW-2	05/03/04		38.39	44.27	5.88		3,640.49
MW-2	07/12/04		39.42	44.67	5.25		3,639.53
MW-2	12/09/04		37.00	42.52	5.52		3,641.92
MW-2	02/16/05		36.87	44.03	7.16		3,641.88
MW-2	03/31/05		36.17	41.85	5.68		3,642.73
MW-2	05/13/05		36.27	42.10	5.83		3,642.62
MW-2	05/26/05		36.84	39.29	2.45		3,642.39
MW-2	06/28/05		36.39	41.57	5.18		3,642.56
MW-2	08/15/05		37.15	38.92	1.77		3,642.14
MW-2	11/14/05		37.56	39.16	1.60		3,641.75
MW-2	01/23/06		38.01	39.54	1.53		3,641.31
MW-2	03/02/06		37.60	38.93	1.33		3,641.74
MW-2	06/01/06		38.48	41.05	2.57		3,640.73
MW-2	08/14/06		39.23	41.24	2.01		3,640.04
MW-2	11/28/06		38.33	40.73	2.40		3,640.90
MW-2	12/12/06		37.80	44.10	6.30		3,641.04
MW-2	01/09/07		38.20	42.21	4.01		3,640.87
MW-2	02/08/07		37.94	42.60	4.66		3,641.06
MW-2	02/27/07		38.15	43.34	5.19	8.00	3,640.80
MW-2	03/09/07		38.07	42.24	4.17		3,640.98
MW-2	03/13/07		38.07	42.32	4.25	3.50	3,640.98
MW-2	03/15/07		38.09	42.39	4.30	4.50	3,640.95
MW-2	03/23/07		38.16	42.00	3.84		3,640.93
MW-2	03/28/07		38.13	42.22	4.09		3,640.93
MW-2	04/12/07		38.51	41.93	3.42		3,640.62
MW-2	04/18/07		38.97	39.73	0.76		3,640.42
MW-2	05/23/07		38.98	39.50	0.52		3,640.44
MW-2	06/20/07		38.94	39.90	0.96		3,640.43
MW-2	06/28/07		38.66	40.88	2.22		3,640.59
MW-2	07/18/07		38.53	41.85	3.32		3,640.61
MW-2	08/15/07		38.50	42.11	3.61		3,640.61
MW-2	08/28/07		38.40	42.21	3.81		3,640.69
MW-2	09/19/07		38.41	42.18	3.77		3,640.68
MW-2	09/25/07		38.41	42.20	3.79		3,640.68
MW-2	10/09/07		38.86	40.37	1.51		3,640.46
MW-2	10/17/07		38.93	40.07	1.14		3,640.43
MW-2	10/26/07		38.68	41.27	2.59		3,640.53
MW-2	11/05/07		38.80	40.64	1.84		3,640.49
MW-2	11/12/07		38.91	40.23	1.32		3,640.43
MW-2	12/05/07		38.72	41.51	2.79		3,640.47

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-3	10/13/03	3,679.81	39.21	48.75	9.54		3,639.65
MW-3	12/11/03		39.15	48.95	9.80		3,639.68
MW-3	12/15/03		39.08	50.91	11.83		3,639.55
MW-3	02/18/04		38.72	48.26	9.54		3,640.14
MW-3	03/12/04		39.82	48.49	8.67		3,639.12
MW-3	03/29/04		38.81	46.32	7.51		3,640.25
MW-3	04/29/04		39.49	44.11	4.62		3,639.86
MW-3	05/03/04		38.77	46.51	7.74		3,640.27
MW-3	07/12/04		39.68	46.81	7.13		3,639.42
MW-3	12/09/04		37.21	45.06	7.85		3,641.82
MW-3	02/16/05		36.70	42.67	5.97		3,642.51
MW-3	03/31/05		38.17	38.20	0.03		3,641.64
MW-3	05/13/05		36.67	44.45	7.78		3,642.36
MW-3	05/26/05		36.92	42.88	5.96		3,642.29
MW-3	06/28/05		36.72	44.05	7.33		3,642.36
MW-3	08/15/05		37.12	43.17	6.05		3,642.09
MW-3	11/14/05		37.69	42.67	4.98		3,641.62
MW-3	01/23/06		38.08	43.31	5.23		3,641.21
MW-3	03/02/06		37.80	42.37	4.57		3,641.55
MW-3	06/01/06		38.50	42.53	4.03		3,640.91
MW-3	08/14/06		39.27	44.64	5.37		3,640.00
MW-3	11/28/06		38.61	43.75	5.14		3,640.69
MW-3	12/12/06		38.56	43.91	5.35		3,640.72
MW-3	01/09/07		38.36	43.21	4.85		3,640.97
MW-3	02/08/07		38.50	44.15	5.65		3,640.75
MW-3	02/27/07		38.67	44.25	5.58	9.00	3,640.58
MW-3	03/09/07		38.89	44.13	5.24		3,640.40
MW-3	03/13/07		38.58	44.19	5.61	4.50	3,640.67
MW-3	03/15/07		38.62	44.23	5.61	5.00	3,640.63
MW-3	03/23/07		38.61	44.12	5.51		3,640.65
MW-3	03/28/07		38.61	44.23	5.62		3,640.64
MW-3	04/12/07		39.88	39.93	0.05		3,639.93
MW-3	04/18/07		39.64	41.30	1.66		3,640.00
MW-3	05/23/07		39.96	40.32	0.36		3,639.81
MW-3	06/20/07		39.86	40.20	0.34		3,639.92
MW-3	06/28/07		39.86	40.12	0.26		3,639.92
MW-3	07/18/07		39.89	40.19	0.30		3,639.89
MW-3	08/15/07		39.12	43.68	4.56		3,640.23
MW-3	08/22/07		39.11	43.56	4.45		3,640.26
MW-3	08/28/07		39.30	43.09	3.79		3,640.13
MW-3	09/19/07		39.12	43.20	4.08		3,640.28
MW-3	09/25/07		39.17	42.94	3.77		3,640.26
MW-3	10/09/07		39.07	41.74	2.67		3,640.47
MW-3	10/17/07		39.12	43.44	4.32		3,640.26
MW-3	10/26/07		39.24	42.99	3.75		3,640.20
MW-3	11/05/07		39.19	43.10	3.91		3,640.23
MW-3	11/12/07		39.90	40.21	0.31		3,639.88
MW-3	12/05/07		39.64	41.52	1.88		3,639.98

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-4	10/13/03	3,679.64	39.01	48.75	9.74		3,639.66
MW-4	12/11/03		38.92	47.32	8.40		3,639.88
MW-4	12/15/03		38.84	47.16	8.32		3,639.97
MW-4	02/18/04		38.48	46.62	8.14		3,640.35
MW-4	03/12/04		39.09	47.51	8.42		3,639.71
MW-4	03/29/04		38.59	45.62	7.03		3,640.35
MW-4	04/29/04		39.94	44.23	4.29		3,639.27
MW-4	05/03/04		38.55	46.33	7.78		3,640.31
MW-4	07/12/04		39.49	46.24	6.75		3,639.48
MW-4	12/09/04		37.03	44.15	7.12		3,641.90
MW-4	02/16/05		36.28	43.01	6.73		3,642.69
MW-4	03/31/05		36.45	42.62	6.17		3,642.57
MW-4	05/13/05		36.37	43.25	6.88		3,642.58
MW-4	05/26/05		36.51	42.79	6.28		3,642.50
MW-4	06/28/05		36.47	43.26	6.79		3,642.49
MW-4	08/15/05		36.79	42.80	6.01		3,642.25
MW-4	11/14/05		37.35	42.24	4.89		3,641.80
MW-4	01/23/06		37.80	42.66	4.86		3,641.35
MW-4	03/02/06		37.43	41.97	4.54		3,641.76
MW-4	06/01/06		38.16	43.90	5.74		3,640.91
MW-4	08/14/06		39.01	44.12	5.11		3,640.12
MW-4	11/28/06		38.37	43.91	5.54		3,640.72
MW-4	12/12/06		38.35	43.06	4.71		3,640.82
MW-4	01/09/07		37.86	44.18	6.32		3,641.15
MW-4	02/08/07		38.28	44.93	6.65		3,640.70
MW-4	02/27/07		38.40	44.38	5.98	9.00	3,640.64
MW-4	03/09/04		38.34	43.32	4.98		3,640.80
MW-4	03/13/07		38.34	43.35	5.01	3.50	3,640.80
MW-4	03/15/07		38.30	43.38	5.08	5.00	3,640.83
MW-4	03/23/07		38.38	43.37	4.99		3,640.76
MW-4	03/28/07		38.37	43.42	5.05		3,640.77
MW-4	04/12/07		38.71	42.96	4.25		3,640.51
MW-4	04/18/07		38.00	43.14	5.14		3,641.13
MW-4	05/23/07		39.87	42.73	2.86		3,639.48
MW-4	06/20/07		38.90	42.52	3.62		3,640.38
MW-4	06/28/07		38.92	42.34	3.42		3,640.38
MW-4	07/18/07		38.99	42.36	3.37		3,640.31
MW-4	08/15/07		39.00	42.33	3.33		3,640.31
MW-4	08/22/07		38.97	42.27	3.30		3,640.34
MW-4	08/28/07		39.12	41.89	2.77		3,640.24
MW-4	09/19/07		38.89	42.32	3.43		3,640.41
MW-4	09/25/07		39.07	41.64	2.57		3,640.31
MW-4	10/09/07		39.12	41.74	2.62		3,640.26
MW-4	10/17/07		39.12	41.66	2.54		3,640.27
MW-4	10/26/07		39.10	41.42	2.32		3,640.31
MW-4	11/05/07		38.94	42.60	3.66		3,640.33
MW-4	11/12/07		39.27	41.09	1.82		3,640.19
MW-4	12/05/07		39.04	41.98	2.94		3,640.31

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-5	10/13/03	3,679.26	40.35	43.02	2.67		3,638.64
MW-5	12/11/03		38.95	47.81	8.86		3,639.42
MW-5	12/15/03		38.91	47.72	8.81		3,639.47
MW-5	02/18/04		38.61	47.44	8.83		3,639.77
MW-5	03/29/04		38.76	46.15	7.39		3,639.76
MW-5	04/29/04		38.55	47.41	8.86		3,639.82
MW-5	05/03/04		38.52	47.46	8.94		3,639.85
MW-5	07/12/04		39.24	47.72	8.48		3,639.17
MW-5	12/09/04		36.99	45.01	8.02		3,641.47
MW-5	02/16/05		36.24	44.48	8.24		3,642.20
MW-5	02/22/05		36.20	44.50	8.30		3,642.23
MW-5	03/31/05		36.38	44.38	8.00		3,642.08
MW-5	05/13/05		36.43	44.29	7.86		3,642.04
MW-5	05/26/05		36.66	43.50	6.84		3,641.92
MW-5	06/28/05		36.58	44.45	7.87		3,641.89
MW-5	08/15/05		36.93	43.52	6.59		3,641.67
MW-5	11/14/05		37.45	43.27	5.82		3,641.23
MW-5	01/23/06		37.85	43.90	6.05		3,640.81
MW-5	03/02/06		37.46	43.41	5.95		3,641.21
MW-5	06/01/06		38.74	43.32	4.58		3,640.06
MW-5	08/14/06		38.92	45.05	6.13		3,639.73
MW-5	11/28/06		38.39	44.35	5.96		3,640.27
MW-5	12/12/06		38.32	44.91	6.59		3,640.28
MW-5	01/09/07		38.47	43.56	5.09		3,640.28
MW-5	02/08/07		38.28	44.42	6.14		3,640.37
MW-5	02/27/07		38.36	45.29	6.93	10.00	3,640.21
MW-5	03/09/07		38.44	45.22	6.78		3,640.14
MW-5	03/13/07		38.36	45.08	6.72	6.00	3,640.23
MW-5	03/15/07		38.37	45.09	6.72	5.00	3,640.22
MW-5	03/23/07		38.33	45.15	6.82		3,640.25
MW-5	03/28/07		38.35	45.17	6.82		3,640.23
MW-5	04/12/07		39.69	41.87	2.18		3,639.35
MW-5	04/18/07		40.31	42.84	2.53		3,638.70
MW-5	05/23/07		39.96	40.60	0.64		3,639.24
MW-5	06/20/07		39.38	42.16	2.78		3,639.60
MW-5	06/28/07		39.87	40.41	0.54		3,639.34
MW-5	07/18/07		39.95	40.35	0.40		3,639.27
MW-5	08/22/07		39.85	40.20	0.35		3,639.38
MW-5	08/28/07		39.20	42.98	3.78		3,639.68
MW-5	09/19/07		38.97	43.67	4.70		3,639.82
MW-5	09/25/07		39.14	42.87	3.73		3,639.75
MW-5	10/09/07		40.07	40.29	0.22		3,639.17
MW-5	10/17/07		39.01	43.06	4.05		3,639.85
MW-5	11/05/07		39.07	43.02	3.95		3,639.80
MW-5	12/05/07		39.13	42.26	3.13		3,639.82

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-6	10/13/03	3,680.63	40.04	50.12	10.08		3,639.58
MW-6	12/11/03		40.01	48.43	8.42		3,639.78
MW-6	12/15/03		39.92	48.33	8.41		3,639.87
MW-6	02/18/04		39.63	47.81	8.18		3,640.18
MW-6	03/12/04		39.68	47.51	7.83		3,640.17
MW-6	03/29/04		39.67	46.50	6.83		3,640.28
MW-6	04/29/04		40.18	44.76	4.58		3,639.99
MW-6	05/03/04		39.66	46.63	6.97		3,640.27
MW-6	07/12/04		40.52	47.68	7.16		3,639.39
MW-6	12/09/04		38.11	45.06	6.95		3,641.83
MW-6	02/16/05		36.25	44.44	8.19		3,643.56
MW-6	02/22/05		37.25	44.44	7.19		3,642.66
MW-6	03/31/05		37.52	44.15	6.63		3,642.45
MW-6	05/13/05		37.46	44.75	7.29		3,642.44
MW-6	05/26/05		37.71	43.31	5.60		3,642.36
MW-6	06/28/05		37.62	44.18	6.56		3,642.35
MW-6	08/15/05		38.09	42.77	4.68		3,642.07
MW-6	11/14/05		38.64	43.31	4.67		3,641.52
MW-6	01/23/06		39.08	42.67	3.59		3,641.19
MW-6	03/02/06		38.85	41.45	2.60		3,641.52
MW-6	06/01/06		40.06	41.84	1.78		3,640.39
MW-6	08/14/06		40.19	44.64	4.45		3,640.00
MW-6	11/28/06		39.36	44.31	4.95		3,640.78
MW-6	12/12/06		39.32	43.81	4.49		3,640.86
MW-6	01/09/07		39.71	42.41	2.70		3,640.65
MW-6	02/08/07		39.30	44.49	5.19		3,640.81
MW-6	02/27/07		39.41	44.54	5.13	7.00	3,640.71
MW-6	03/09/07		39.40	44.47	5.07		3,640.72
MW-6	03/13/07		39.40	44.47	5.07	4.00	3,640.72
MW-6	03/15/07		39.40	44.50	5.10	4.50	3,640.72
MW-6	03/23/07		39.41	44.42	5.01		3,640.72
MW-6	03/28/07		39.45	44.80	5.35		3,640.65
MW-6	04/12/07		40.33	41.37	1.04		3,640.20
MW-6	04/18/07		40.61	40.83	0.22		3,640.00
MW-6	05/23/07		40.50	40.90	0.40		3,640.09
MW-6	06/20/07		40.58	41.25	0.67		3,639.98
MW-6	06/28/07		40.24	42.01	1.77		3,640.21
MW-6	07/18/07		39.94	43.74	3.80		3,640.31
MW-6	08/15/07		40.51	41.06	0.55		3,640.07
MW-6	08/22/07		40.56	40.81	0.25		3,640.05
MW-6	08/28/07		40.30	42.31	2.01		3,640.13
MW-6	09/19/07		39.78	44.04	4.26		3,640.42
MW-6	09/25/07		39.84	44.15	4.31		3,640.36
MW-6	10/09/07		39.82	44.15	4.33		3,640.38
MW-6	10/17/07		40.55	40.83	0.28		3,640.05
MW-6	10/26/07		39.98	43.54	3.56		3,640.29
MW-6	11/05/07		39.88	43.98	4.10		3,640.34
MW-6	11/12/07		39.91	43.99	4.08		3,640.31
MW-6	12/05/07		39.98	43.97	3.99		3,640.25

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-7	01/23/04	3,679.85		39.64			3,640.21
MW-7	04/29/04			39.29			3,640.56
MW-7	05/12/04			39.29			3,640.56
MW-7	06/03/04			39.27			3,640.58
MW-7	07/12/04			40.42			3,639.43
MW-7	07/19/04			40.68			3,639.17
MW-7	11/08/04			38.66			3,641.19
MW-7	03/31/05			37.07			3,642.78
MW-7	05/13/05			37.10			3,642.75
MW-7	05/23/05			37.09			3,642.76
MW-7	05/26/05			37.13			3,642.69
MW-7	06/28/05			37.16			3,642.69
MW-7	08/15/05			37.32			3,642.45
MW-7	08/17/05			37.26			3,642.59
MW-7	11/14/05			37.40			3,642.45
MW-7	01/23/06			38.12			3,641.73
MW-7	03/02/06			37.49			3,642.36
MW-7	06/01/06			38.40			3,641.45
MW-7	08/14/06			39.50			3,640.35
MW-7	11/28/06			38.61			3,641.24
MW-7	12/12/06			38.62			3,641.23
MW-7	01/09/07			38.22			3,641.63
MW-7	02/08/07			38.43			3,641.42
MW-7	02/27/07			38.67			3,641.18
MW-7	03/09/07			38.67			3,641.18
MW-7	03/13/07			38.65			3,641.20
MW-7	03/15/07			38.64			3,641.21
MW-7	03/23/07			38.51			3,641.34
MW-7	03/28/07			38.60			3,641.25
MW-7	04/12/07			38.75			3,641.10
MW-7	04/18/07			38.73			3,641.12
MW-7	05/23/07			38.70			3,641.15
MW-7	06/20/07			38.81			3,641.04
MW-7	07/18/07			38.90			3,640.95
MW-7	09/19/07			38.87			3,640.98
MW-7	11/02/07			38.96			3,640.89
MW-7	11/16/07			38.90			3,640.95
MW-7	12/05/07			38.99			3,640.86

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-8	01/23/04	3,679.07		39.56			3,639.51
MW-8	04/29/04			39.33			3,639.74
MW-8	05/12/04			39.34			3,639.73
MW-8	06/03/04			39.32			3,639.75
MW-8	07/12/04			40.13			3,638.94
MW-8	07/19/04			40.32			3,638.75
MW-8	11/08/04			39.60			3,639.47
MW-8	03/31/05			37.11			3,641.96
MW-8	05/13/05			37.16			3,641.91
MW-8	05/23/05			37.16			3,641.91
MW-8	05/26/05			37.19			3,641.88
MW-8	06/28/05			37.23			3,641.84
MW-8	08/15/05			37.40			3,641.67
MW-8	08/17/05			37.34			3,641.73
MW-8	11/14/05			37.52			3,641.55
MW-8	01/23/06			38.23			3,640.84
MW-8	03/02/06			37.63			3,641.44
MW-8	06/01/06			38.90			3,640.17
MW-8	08/14/06			39.34			3,639.73
MW-8	11/28/06			38.71			3,640.36
MW-8	12/12/06			38.73			3,640.34
MW-8	01/09/07			38.71			3,640.36
MW-8	02/08/07			38.55			3,640.52
MW-8	02/21/07			38.78			3,640.29
MW-8	02/27/07			38.79			3,640.28
MW-8	03/09/07			38.78			3,640.29
MW-8	03/13/07			38.78			3,640.29
MW-8	03/15/07			38.76			3,640.31
MW-8	03/23/07			38.62			3,640.45
MW-8	03/28/07			38.74			3,640.33
MW-8	04/12/07			38.90			3,640.17
MW-8	04/18/07			38.88			3,640.19
MW-8	05/23/07			38.86			3,640.21
MW-8	06/20/07			38.96			3,640.11
MW-8	07/18/07			39.05			3,640.02
MW-8	09/19/07			38.99			3,640.08
MW-8	11/02/07			39.06			3,640.01
MW-8	11/16/07			39.06			3,640.01
MW-8	12/05/07			39.09			3,639.98

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-9	01/23/04	3,678.76		39.91			3,638.85
MW-9	04/29/04			39.68			3,639.08
MW-9	05/12/04			39.69			3,639.07
MW-9	06/03/04			39.67			3,639.09
MW-9	07/12/04			40.34			3,638.42
MW-9	07/19/04			40.44			3,638.32
MW-9	11/08/04			38.84			3,639.92
MW-9	03/31/05			37.48			3,641.28
MW-9	05/13/05			37.54			3,641.22
MW-9	05/23/05			37.55			3,641.21
MW-9	05/26/05			37.59			3,641.17
MW-9	06/28/05			37.64			3,641.12
MW-9	08/15/05			37.82			3,640.94
MW-9	08/17/05			37.77			3,640.99
MW-9	11/14/05			37.95			3,640.81
MW-9	01/23/06			38.65			3,640.11
MW-9	03/02/06			38.05			3,640.71
MW-9	06/01/06			38.73			3,640.03
MW-9	08/14/06			39.57			3,639.19
MW-9	11/28/06			39.12			3,639.64
MW-9	12/12/06			53.10			3,625.66
MW-9	01/09/07			39.14			3,639.62
MW-9	02/08/07			38.97			3,639.79
MW-9	02/21/07			39.22			3,639.54
MW-9	02/27/07			39.21			3,639.55
MW-9	03/09/07			39.21			3,639.55
MW-9	03/13/07			39.20			3,639.56
MW-9	03/15/07			39.20			3,639.56
MW-9	03/23/07			39.04			3,639.72
MW-9	03/28/07			39.16			3,639.60
MW-9	04/12/07			39.36			3,639.40
MW-9	04/18/07			39.30			3,639.46
MW-9	05/22/07			39.31			3,639.45
MW-9	06/20/07			39.40			3,639.36
MW-9	07/18/07			39.49			3,639.27
MW-9	09/19/07			39.45			3,639.31
MW-9	11/02/07			39.51			3,639.25
MW-9	11/16/07			39.48			3,639.28
MW-9	12/05/07			39.51			3,639.25

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-10	01/23/04	3,678.36		39.89			3,638.47
MW-10	04/29/04			39.74			3,638.62
MW-10	05/12/04			39.74			3,638.62
MW-10	06/03/04			39.74			3,638.62
MW-10	07/12/04			40.24			3,638.12
MW-10	07/19/04			40.33			3,638.03
MW-10	11/08/04			38.76			3,639.60
MW-10	03/31/05			37.46			3,640.90
MW-10	05/13/05			37.58			3,640.78
MW-10	05/23/05			37.58			3,640.78
MW-10	05/26/05			37.62			3,640.74
MW-10	06/28/05			37.70			3,640.66
MW-10	08/15/05			37.87			3,640.49
MW-10	08/17/05			37.02			3,641.34
MW-10	11/14/05			38.02			3,640.34
MW-10	01/23/06			38.73			3,639.63
MW-10	03/02/06			38.16			3,640.20
MW-10	06/01/06			38.81			3,639.55
MW-10	08/14/06			39.51			3,638.85
MW-10	11/28/06			39.19			3,639.17
MW-10	12/12/06			39.21			3,639.15
MW-10	01/09/07			39.21			3,639.15
MW-10	02/08/07			39.10			3,639.26
MW-10	02/21/07			39.33			3,639.03
MW-10	02/27/07			39.29			3,639.07
MW-10	03/09/07			39.24			3,639.12
MW-10	03/13/07			39.29			3,639.07
MW-10	03/15/07			39.30			3,639.06
MW-10	03/23/07			39.11			3,639.25
MW-10	03/28/07			39.24			3,639.12
MW-10	04/12/07			39.46			3,638.90
MW-10	04/18/07			39.41			3,638.95
MW-10	04/18/07			39.31			3,639.05
MW-10	06/20/07			39.48			3,638.88
MW-10	07/18/07			39.59			3,638.77
MW-10	09/19/07			39.51			3,638.85
MW-10	11/02/07			39.50			3,638.86
MW-10	11/16/07			39.91			3,638.45
MW-10	12/05/07			39.52			3,638.84

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-11	01/23/04	3,678.03		41.40			3,636.63
MW-11	04/29/04			41.07			3,636.96
MW-11	05/12/04			39.57			3,638.46
MW-11	06/03/04			39.61			3,638.42
MW-11	07/12/04			40.04			3,637.99
MW-11	07/19/04			40.10			3,637.93
MW-11	11/08/04			38.66			3,639.37
MW-11	03/31/05			37.25			3,640.78
MW-11	05/13/05			37.40			3,640.63
MW-11	05/23/05			37.34			3,640.69
MW-11	05/26/05			31.45			3,646.58
MW-11	06/28/05			37.54			3,640.49
MW-11	08/15/05			37.60			3,640.43
MW-11	08/17/05			37.61			3,640.42
MW-11	11/14/05			37.80			3,640.23
MW-11	01/23/06			38.58			3,639.45
MW-11	03/02/06			37.97			3,640.06
MW-11	06/01/06			39.15			3,638.88
MW-11	08/14/06			39.33			3,638.70
MW-11	11/28/06			39.00			3,639.03
MW-11	12/12/06			39.06			3,638.97
MW-11	01/09/07			39.06			3,638.97
MW-11	02/08/07			38.91			3,639.12
MW-11	02/21/07			39.11			3,638.92
MW-11	02/27/07			44.87			3,633.16
MW-11	03/09/07			39.17			3,638.86
MW-11	03/13/07			39.13			3,638.90
MW-11	03/15/07			39.16			3,638.87
MW-11	03/23/07			39.01			3,639.02
MW-11	03/28/07			39.05			3,638.98
MW-11	04/12/07			39.34			3,638.69
MW-11	04/18/07			39.25			3,638.78
MW-11	05/22/07			39.24			3,638.79
MW-11	06/20/07			39.30			3,638.73
MW-11	07/18/07			39.42			3,638.61
MW-11	09/19/07			39.55			3,638.48
MW-11	11/02/07			39.37			3,638.66
MW-11	11/16/07			39.46			3,638.57
MW-11	12/05/07			39.47			3,638.56

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-12	01/23/04	3,679.63	39.49	45.30	5.81		3,639.56
MW-12	03/23/04		38.89	47.39	8.50		3,639.89
MW-12	03/29/04		38.86	47.33	8.47		3,639.92
MW-12	04/29/04		38.86	48.57	9.71		3,639.80
MW-12	05/03/04		38.83	46.63	7.80		3,640.02
MW-12	07/12/04		39.58	47.53	7.95		3,639.26
MW-12	12/09/04		37.50	44.28	6.78		3,641.45
MW-12	02/16/05		36.68	43.87	7.19		3,642.23
MW-12	03/31/05		36.95	42.97	6.02		3,642.08
MW-12	05/13/05		36.83	43.97	7.14		3,642.09
MW-12	05/26/05		36.95	43.71	6.76		3,642.00
MW-12	06/28/05		36.97	44.14	7.17		3,641.94
MW-12	08/15/05		37.25	43.60	6.35		3,641.75
MW-12	11/14/05		37.73	43.51	5.78		3,641.32
MW-12	01/23/06		38.08	44.34	6.26		3,640.92
MW-12	03/02/06		37.71	43.82	6.11		3,641.31
MW-12	06/01/06		38.87	44.25	5.38		3,640.22
MW-12	08/14/06		39.11	45.85	6.74		3,639.85
MW-12	11/28/06		38.64	44.91	6.27		3,640.36
MW-12	12/12/06		38.63	44.92	6.29		3,640.37
MW-12	01/09/07		38.41	44.87	6.46		3,640.57
MW-12	02/08/07		nd	42.02	na		3,636.01
MW-12	03/09/07		38.67	45.13	6.46		3,640.31
MW-12	03/13/07		38.64	45.14	6.50	7.00	3,640.34
MW-12	03/15/07		38.64	45.16	6.52	6.00	3,640.34
MW-12	03/23/07		38.68	45.14	6.46		3,640.30
MW-12	03/28/07		38.68	45.19	6.51		3,640.30
MW-12	04/12/07		39.22	44.25	5.03		3,639.91
MW-12	04/18/07		39.96	44.68	4.72		3,639.20
MW-12	05/22/07		39.51	43.75	4.24		3,639.70
MW-12	06/20/07		39.42	43.40	3.98		3,639.81
MW-12	06/28/07		39.47	43.06	3.59		3,639.80
MW-12	07/18/07		39.65	42.80	3.15		3,639.67
MW-12	08/15/07		39.27	43.96	4.69		3,639.89
MW-12	08/22/07		39.50	42.90	3.40		3,639.79
MW-12	08/28/07		39.78	42.04	2.26		3,639.62
MW-12	09/19/07		39.39	43.31	3.92		3,639.85
MW-12	09/25/07		39.29	43.67	4.38		3,639.90
MW-12	10/09/07		39.14	44.79	5.65		3,639.93
MW-12	10/17/07		39.57	42.72	3.15		3,639.75
MW-12	10/26/07		39.21	41.22	2.01		3,640.22
MW-12	11/05/07		39.13	44.61	5.48		3,639.95
MW-12	11/12/07		39.33	44.70	5.37		3,639.76
MW-12	12/05/07		39.34	44.87	5.53		3,639.74

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-13	01/23/04	3,681.42		39.67			3,641.75
MW-13	04/29/04			39.58			3,641.84
MW-13	05/12/04			41.05			3,640.37
MW-13	06/03/04			41.05			3,640.37
MW-13	07/12/04			42.18			3,639.24
MW-13	07/19/04			42.44			3,638.98
MW-13	11/08/04			40.24			3,641.18
MW-13	03/31/05			38.79			3,642.63
MW-13	05/13/05			38.83			3,642.59
MW-13	05/23/05			38.82			3,642.60
MW-13	05/26/05			38.87			3,642.55
MW-13	06/28/05			38.63			3,642.79
MW-13	08/15/05			39.07			3,642.35
MW-13	08/17/05			39.02			3,642.40
MW-13	11/14/05			39.15			3,642.27
MW-13	01/23/06			39.84			3,641.58
MW-13	03/02/06			39.28			3,642.14
MW-13	06/01/06			40.73			3,640.69
MW-13	08/14/06			41.22			3,640.20
MW-13	11/28/06			40.38			3,641.04
MW-13	12/12/06			40.37			3,641.05
MW-13	01/09/07			40.36			3,641.06
MW-13	02/08/07			42.02			3,639.40
MW-13	02/27/07			40.41			3,641.01
MW-13	03/09/07			40.42			3,641.00
MW-13	03/13/07			40.42			3,641.00
MW-13	03/15/07			40.44			3,640.98
MW-13	03/23/07			40.25			3,641.17
MW-13	03/28/07			40.35			3,641.07
MW-13	04/12/07			40.55			3,640.87
MW-13	04/18/07			40.48			3,640.94
MW-13	05/23/07			40.48			3,640.94
MW-13	06/20/07			40.60			3,640.82
MW-13	07/18/07			40.68			3,640.74
MW-13	09/19/07			39.55			3,641.87
MW-13	11/02/07			40.58			3,640.84
MW-13	11/16/07			40.43			3,640.99
MW-13	12/05/07			40.75			3,640.67

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-14	06/03/04	3,679.00	39.16	42.87	3.71		3,639.47
MW-14	07/12/04		39.29	46.46	7.17		3,638.99
MW-14	07/19/04		39.45	46.59	7.14		3,638.84
MW-14	08/26/04		38.92	45.94	7.02		3,639.38
MW-14	12/09/04		37.11	43.08	5.97		3,641.29
MW-14	02/16/05		36.62	42.53	5.91		3,641.79
MW-14	03/31/05		36.34	43.32	6.98		3,641.96
MW-14	05/13/05		36.45	43.34	6.89		3,641.86
MW-14	05/26/05		36.48	45.27	8.79		3,641.64
MW-14	06/28/05		36.54	44.83	8.29		3,641.63
MW-14	08/15/05		37.14	41.59	4.45		3,641.42
MW-14	11/14/05		37.55	41.70	4.15		3,641.04
MW-14	01/23/06		37.85	42.74	4.89		3,640.66
MW-14	03/02/06		37.58	41.71	4.13		3,641.01
MW-14	06/01/06		38.84	41.75	2.91		3,639.87
MW-14	08/14/06		0.00	39.00	39.00		3,675.10
MW-14	11/28/06		38.30	43.55	5.25		3,640.18
MW-14	12/12/06		38.24	44.02	5.78		3,640.18
MW-14	01/09/07		38.21	42.26	4.05		3,640.39
MW-14	02/08/07		38.18	44.27	6.09		3,640.21
MW-14	02/27/07		38.26	44.32	6.06	9.00	3,640.13
MW-14	03/09/07		38.27	44.41	6.14		3,640.12
MW-14	03/13/07		38.20	44.21	6.01		3,640.20
MW-14	03/15/07		38.22	44.20	5.98	6.00	3,640.18
MW-14	03/23/07		38.28	44.22	5.94		3,640.13
MW-14	03/28/07		38.25	44.27	6.02		3,640.15
MW-14	04/12/07		39.41	40.64	1.23		3,639.47
MW-14	04/18/07		39.69	40.01	0.32		3,639.28
MW-14	05/23/07		39.71	40.02	0.31		3,639.26
MW-14	06/20/07		38.96	41.88	2.92		3,639.75
MW-14	06/28/07		39.05	41.85	2.80		3,639.67
MW-14	07/18/07		39.58	39.91	0.33		3,639.39
MW-14	08/15/07		39.63	39.87	0.24		3,639.35
MW-14	08/22/07		39.54	40.15	0.61		3,639.40
MW-14	08/28/07		39.39	41.62	2.23		3,639.39
MW-14	09/19/07		39.07	41.79	2.72		3,639.66
MW-14	09/25/07		39.34	40.94	1.60		3,639.50
MW-14	10/09/07		39.44	41.15	1.71		3,639.39
MW-14	10/17/07		39.61	39.80	0.19		3,639.37
MW-14	10/26/07		39.56	39.88	0.32		3,639.41
MW-14	11/05/07		39.08	42.21	3.13		3,639.61
MW-14	11/12/07		38.95	43.05	4.10		3,639.64
MW-14	12/05/07		38.99	43.75	4.76		3,639.53

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-15	06/03/04	3,674.92		36.22			3,638.70
MW-15	07/12/04			36.77			3,638.15
MW-15	07/19/04			36.90			3,638.02
MW-15	11/08/04			35.10			3,639.82
MW-15	03/31/05			33.92			3,641.00
MW-15	05/13/05			34.00			3,640.92
MW-15	05/23/05			35.34			3,639.58
MW-15	05/26/05			35.38			3,639.54
MW-15	06/28/05			35.46			3,639.46
MW-15	08/15/05			34.32			3,640.60
MW-15	08/17/05			34.29			3,640.63
MW-15	11/14/05			34.47			3,640.45
MW-15	01/23/06			35.17			3,639.75
MW-15	03/02/06			34.60			3,640.32
MW-15	06/01/06			37.18			3,637.74
MW-15	08/10/06			35.62			3,639.30
MW-15	11/28/06			35.63			3,639.29
MW-15	12/12/06			36.92			3,638.00
MW-15	01/09/07			36.93			3,637.99
MW-15	02/27/07		35.16	35.67	0.51	10.00	3,639.71
MW-15	03/09/07		35.16	35.92	0.76		3,639.68
MW-15	03/13/07		35.65	36.01	0.36		3,639.23
MW-15	03/15/07		35.64	36.20	0.56		3,639.22
MW-15	03/23/07		35.68	36.14	0.46		3,639.19
MW-15	03/28/07		35.70	36.21	0.51		3,639.17
MW-15	04/12/07		35.75	36.51	0.76		3,639.09
MW-15	04/18/07		35.70	36.46	0.76		3,639.14
MW-15	05/22/07		35.70	37.04	1.34		3,639.09
MW-15	06/20/07		35.90	37.52	1.62		3,638.86
MW-15	07/18/07		35.60	38.10	2.50		3,639.07
MW-15	08/15/07		35.47	38.56	3.09		3,639.14
MW-15	08/22/07		35.48	38.58	3.10		3,639.13
MW-15	08/28/07		35.59	38.15	2.56		3,639.07
MW-15	09/19/07		35.78	36.98	1.20		3,639.02
MW-15	09/25/07		36.43	37.27	0.84		3,638.41
MW-15	10/09/07		35.61	37.99	2.38		3,639.07
MW-15	10/17/07		35.49	38.36	2.87		3,639.14
MW-15	10/26/07		35.47	38.71	3.24		3,639.13
MW-15	11/05/07		35.46	39.89	4.43		3,639.02
MW-15	11/12/07		35.37	39.18	3.81		3,639.17
MW-15	12/05/07		35.31	39.75	4.44		3,639.17

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-16	06/03/04	3,676.86		37.66			3,639.20
MW-16	07/12/04			38.35			3,638.51
MW-16	07/19/04			38.57			3,638.29
MW-16	11/08/04			36.38			3,640.48
MW-16	03/31/05			35.29			3,641.57
MW-16	05/13/05			35.31			3,641.55
MW-16	05/23/05			35.18			3,641.68
MW-16	05/26/05			34.04			3,642.82
MW-16	06/28/05			34.11			3,642.75
MW-16	08/15/05			35.61			3,641.25
MW-16	08/17/05			35.56			3,641.30
MW-16	11/14/05			35.73			3,641.13
MW-16	01/23/06			36.45			3,640.41
MW-16	03/02/06			35.85			3,641.01
MW-16	06/01/06			35.82			3,641.04
MW-16	08/14/06			37.50			3,639.36
MW-16	11/28/06			37.94			3,638.92
MW-16	12/12/06			35.65			3,641.21
MW-16	01/09/07			35.67			3,641.19
MW-16	03/09/07			36.00			3,640.86
MW-16	03/13/07			36.98			3,639.88
MW-16	03/15/07			36.96			3,639.90
MW-16	03/23/07			36.84			3,640.02
MW-16	03/28/07			36.96			3,639.90
MW-16	04/12/07			37.14			3,639.72
MW-16	04/18/07			37.03			3,639.83
MW-16	05/23/07			37.08			3,639.78
MW-16	06/20/07			37.16			3,639.70
MW-16	07/18/07			37.28			3,639.58
MW-16	09/19/07			37.27			3,639.59
MW-16	11/02/07			37.30			3,639.56
MW-16	11/16/07			37.32			3,639.54
MW-16	12/05/07			37.36			3,639.50

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-17	06/03/04	3,679.01	39.66	42.05	2.39		3,639.11
MW-17	07/12/04		39.39	46.94	7.55		3,638.87
MW-17	07/19/04		39.50	46.97	7.47		3,638.76
MW-17	08/26/04		39.04	46.59	7.55		3,639.22
MW-17	12/09/04		37.11	44.60	7.49		3,641.15
MW-17	02/16/05		37.00	41.07	4.07		3,641.60
MW-17	03/31/05		36.49	44.13	7.64		3,641.76
MW-17	05/13/05		36.52	44.24	7.72		3,641.72
MW-17	05/26/05		36.72	44.28	7.56		3,641.53
MW-17	06/28/05		36.95	44.76	7.81		3,641.28
MW-17	08/15/05		37.25	42.35	5.10		3,641.25
MW-17	11/14/05		37.69	42.33	4.64		3,640.86
MW-17	01/23/06		38.15	43.41	5.26		3,640.33
MW-17	03/02/06		37.59	43.25	5.66		3,640.85
MW-17	06/01/06		38.95	42.48	3.53		3,639.71
MW-17	08/14/06		39.10	44.41	5.31		3,639.38
MW-17	11/28/06		38.49	44.04	5.55		3,639.97
MW-17	12/12/06		38.42	44.33	5.91		3,640.00
MW-17	01/09/07		38.42	43.07	4.65		3,640.13
MW-17	02/08/07		38.38	44.95	6.57		3,639.97
MW-17	02/27/07		38.51	45.22	6.71	11.00	3,639.83
MW-17	03/09/07		38.41	45.11	6.70		3,639.93
MW-17	03/13/07		38.39	45.02	6.63		3,639.96
MW-17	03/15/07		38.41	45.01	6.60	6.00	3,639.94
MW-17	03/23/07		38.43	45.11	6.68		3,639.91
MW-17	03/28/07		38.43	45.26	6.83		3,639.90
MW-17	04/12/07		39.06	43.82	4.76		3,639.47
MW-17	04/18/07		39.13	44.32	5.19		3,639.36
MW-17	05/23/07		39.41	43.65	4.24		3,639.18
MW-17	06/20/07		39.52	41.72	2.20		3,639.27
MW-17	06/28/07		39.79	40.75	0.96		3,639.12
MW-17	07/18/07		39.82	40.81	0.99		3,639.09
MW-17	08/15/07		39.92	40.18	0.26		3,639.06
MW-17	08/22/07		39.87	40.17	0.30		3,639.11
MW-17	08/28/07		39.90	40.39	0.49		3,639.06
MW-17	09/25/07		39.78	40.17	0.39		3,639.19
MW-17	10/09/07		39.92	40.38	0.46		3,639.04
MW-17	10/17/07		39.83	40.17	0.34		3,639.15
MW-17	10/26/07		39.91	40.03	0.12		3,639.09
MW-17	11/05/07		39.17	43.19	4.02		3,639.44
MW-17	11/12/07		39.89	40.04	0.15		3,639.11
MW-17	12/05/07		39.75	41.97	2.22		3,639.04

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-18	11/28/06			35.64			
MW-18	12/12/06			35.65			
MW-18	01/09/07			35.62			
MW-18	02/08/07			35.50			
MW-18	03/09/07			35.70			
MW-18	03/13/07			35.71			
MW-18	03/15/07			35.70			
MW-18	03/23/07			35.57			
MW-18	03/28/07			36.65			
MW-18	04/12/07			35.83			
MW-18	04/18/07			35.84			
MW-18	05/22/07			35.86			
MW-18	06/20/07			35.86			
MW-18	07/18/07			35.98			
MW-18	09/19/07	3,679.01		35.94			3,643.07
MW-18	11/02/07			35.97			3,643.04
MW-18	12/05/07			36.04			3,642.97
MW-19	11/28/06			35.55			
MW-19	12/12/06			35.55			
MW-19	01/09/07			35.57			
MW-19	02/08/07			35.43			
MW-19	03/09/07			35.65			
MW-19	03/13/07			35.65			
MW-19	03/15/07			35.66			
MW-19	03/23/07			35.48			
MW-19	03/28/07			35.54			
MW-19	04/12/07			35.77			
MW-19	04/18/07			35.72			
MW-19	05/23/07			35.71			
MW-19	06/20/07			35.81			
MW-19	07/18/07			35.90			
MW-19	09/19/07	3,674.96		35.87			3,639.09
MW-19	11/02/07			35.90			3,639.06
MW-19	11/16/07			35.96			3,639.00
MW-19	12/05/07			36.56			3,638.40

TABLE 1
GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON (PSH) THICKNESS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-20	11/28/06			35.61			
MW-20	12/12/06			35.63			
MW-20	01/09/07			35.67			
MW-20	02/08/07			35.53			
MW-20	03/09/07			35.75			
MW-20	03/13/07			35.73			
MW-20	03/15/07			35.70			
MW-20	03/23/07			35.60			
MW-20	03/28/07			35.67			
MW-20	04/12/07			35.87			
MW-20	04/18/07			35.81			
MW-20	05/23/07			35.80			
MW-20	06/20/07			35.90			
MW-20	07/18/07			36.01			
MW-20	09/19/07	3,674.38		35.99			3,638.39
MW-20	11/02/07			36.01			3,638.37
MW-20	12/05/07			35.97			3,638.41
MW-21	12/05/07	3,674.38		36.34			3,638.04
MW-22	12/05/07	3,674.07		36.08			3,637.99
Klein Irrigation Well	10/31/03	Well sampled but groundwater depth not measured.					
	11/08/04	Well sampled but groundwater depth not measured.					
	03/31/05	Well sampled but groundwater depth not measured.					
	03/02/06	Well sampled but groundwater depth not measured.					
	06/01/06	Well sampled but groundwater depth not measured.					
	08/14/06	Well not scheduled for sampling.					
	01/09/07	Well not scheduled for sampling.					

Total manual recovery 159.50

Approximate system recovery 3.80 bbls

PSH - Phase Separated Hydrocarbons na - not applicable
amsl - above mean sea level
btoc - below top of casing
*Corrected Groundwater Elevation = Top of Casing Elevation - [Depth to Water Below Top of Casing - (SG)(PSH Thickness)].

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-1	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/28/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/20/07	Sampling not required in second quarter				
	09/19/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/05/07	Sampling not required in fourth quarter				

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-8	03/28/07	**0.0113**	<0.001	<0.001	<0.001	<0.001
	06/20/07	Sampling not required in second quarter				
	09/19/07	0.0052	<0.001	<0.002	<0.001	<0.001
	12/05/07	Sampling not required in fourth quarter				
MW-9	03/28/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/20/07	Sampling not required in second quarter				
	09/19/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/05/07	Sampling not required in fourth quarter				
MW-10	03/28/07	**6.22**	0.453	0.349	0.177	0.552
	06/20/07	**4.648**	0.3300	<0.1000	<0.0500	<0.0500
	09/19/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/05/07	**7.375**	0.5106	<0.0400	<0.0200	<0.0400
MW-11	03/28/07	**17.5**	**1.88**	**1.09**	**0.363**	0.728
	06/20/07	**17.86**	**1.836**	**1.125**	**0.3620**	**1.420**
	09/19/07	**18.35**	**1.3990**	**0.6450**	**0.1770**	**0.5280**
	12/05/07	**17.89**	**1.290**	**0.7575**	**0.2535**	**1.365**
MW-12	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	03/28/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/20/07	Sampling not required in second quarter				
	09/19/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/05/07	Sampling not required in fourth quarter				

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-14	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	03/28/07	**0.0120**	<0.001	<0.001	<0.001	<0.001
	06/20/07	0.0013	<0.0010	<0.0020	<0.0010	<0.0010
	09/19/07	<0.0010	<0.0010	<0.0020	<0.0010	<0.001
	12/05/07	0.0034	<0.0010	<0.0020	<0.0010	<0.0020
MW-17	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/20/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/05/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-18	03/28/07	0.00210	<0.001	<0.001	<0.001	<0.001
	06/20/07	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
	09/19/07	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
	12/05/07	0.0039	<0.0010	<0.0020	<0.0010	<0.0020
MW-19	03/28/07	0.00130	<0.001	<0.001	<0.001	<0.001
	06/20/07	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
	09/19/07	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
	12/05/07	0.002	<0.0010	<0.0020	<0.0010	<0.0020
MW-20	03/28/07	**20.7**	**1.61**	**0.872**	**0.400**	**1.39**
	06/20/07	**20.17**	**1.624**	0.4090	<0.0500	<0.0500
	09/19/07	**31.67**	**1.850**	0.2510	<0.1000	<0.1000
	12/05/07	**31.41**	**1.749**	0.2220	<0.1000	<0.2000
MW-21	12/05/07	Installed well				
	12/05/07	**0.0590**	0.0040	<0.0020	<0.0010	0.0033
MW-22	12/05/07	Installed well				
	12/05/07	**0.1621**	<0.0010	0.0040	<0.0010	0.0028
Klein Irrigation Well		**Irrigation well not sampled**				
NMWQCC Remedial Limits		0.010	0.750	Total Xylenes 0.620		0.750

[1] ***Bolded*** *values are in excess of the NMWQCC Remediation Thresholds*

TABLE 3
SUMMARY OF GROUNDWATER POLYCYCLIC-AROMATIC HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO - SRS# 2003-00017
Talon/LPE Project Number PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[j,k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-2	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-3	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-4	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-5	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-6	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-7	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-8	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-10	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	<0.005
MW-11	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.058**	<0.005	<0.005
MW-12	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-13	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-14	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-15	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-16	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-17	03/28/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-18	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-19	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-20	03/28/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.056**	<0.005	<0.005
NMWQCC Remedial Limits		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030

[1] ***Bolded*** *values are in excess of the NMWQCC Remediation Thresholds*

APPENDIX C

Laboratory Analytical Reports and Chain of Custody Documentation

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Hobbs Junction Mainline 8"

Project Number: 2003-00017

Location: Hobbs Junction Mainline 8"

Lab Order Number: 7C29012

Report Date: 04/06/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Hobbs Junction Mainline 8"
Project Number: 2003-00017
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	7C29012-01	Water	03/28/07 11:27	03-29-2007 08:45
MW-8	7C29012-02	Water	03/28/07 11:14	03-29-2007 08:45
MW-9	7C29012-03	Water	03/28/07 11:04	03-29-2007 08:45
MW-10	7C29012-04	Water	03/28/07 10:52	03-29-2007 08:45
MW-11	7C29012-05	Water	03/28/07 15:24	03-29-2007 08:45
MW-13	7C29012-06	Water	03/28/07 16:31	03-29-2007 08:45
MW-16	7C29012-07	Water	03/28/07 15:52	03-29-2007 08:45
MW-18	7C29012-08	Water	03/28/07 16:06	03-29-2007 08:45
MW-19	7C29012-09	Water	03/28/07 16:22	03-29-2007 08:45
MW-20	7C29012-10	Water	03/28/07 15:38	03-29-2007 08:45

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Midland TX, 79706-4476

Project: Hobbs Junction Mainline 8"
Project Number: 2003-00017
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (7C29012-01) Water									
Benzene	ND	0.00100	mg/L	1	ED70412	04/04/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		"	"	"	"	
MW-8 (7C29012-02) Water									
Benzene	**0.0113**	0.00100	mg/L	1	ED70412	04/04/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.8 %*	*80-120*		"	"	"	"	
MW-9 (7C29012-03) Water									
Benzene	ND	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-10 (7C29012-04) Water									
Benzene	**6.22**	0.0200	mg/L	20	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	**0.552**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.453**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.349**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.177**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	

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Project: Hobbs Junction Mainline 8"
Project Number: 2003-00017
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (7C29012-05) Water									
Benzene	**17.5**	0.0500	mg/L	50	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	**0.728**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**1.88**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**1.09**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.363**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.6 %*	*80-120*		"	"	"	"	
MW-13 (7C29012-06) Water									
Benzene	ND	0.00100	mg/L	1	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-16 (7C29012-07) Water									
Benzene	**0.0120**	0.00100	mg/L	1	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*80-120*		"	"	"	"	
MW-18 (7C29012-08) Water									
Benzene	**0.00210**	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000467]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	

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Project Number: 2003-00017
Project Manager: Camille Reynolds

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-19 (7C29012-09) Water									
Benzene	**0.00130**	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		"	"	"	"	
MW-20 (7C29012-10) Water									
Benzene	**20.7**	0.100	mg/L	100	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	**1.39**	0.100	"	"	"	"	"	"	
Ethylbenzene	**1.61**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.872**	0.100	"	"	"	"	"	"	
Xylene (o)	**0.400**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*80-120*		"	"	"	"	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70412 - EPA 5030C (GC)										
Blank (ED70412-BLK1)				Prepared & Analyzed: 04/04/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*54.9*		*ug/l*	*50.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.7*		"	*50.0*		*93.4*	*80-120*			
LCS (ED70412-BS1)				Prepared & Analyzed: 04/04/07						
Benzene	0.0507	0.00100	mg/L	0.0500		101	80-120			
Toluene	0.0466	0.00100	"	0.0500		93.2	80-120			
Ethylbenzene	0.0473	0.00100	"	0.0500		94.6	80-120			
Xylene (p/m)	0.0877	0.00100	"	0.100		87.7	80-120			
Xylene (o)	0.0485	0.00100	"	0.0500		97.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*50.3*		*ug/l*	*50.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.9*		"	*50.0*		*85.8*	*80-120*			
Calibration Check (ED70412-CCV1)				Prepared: 04/04/07 Analyzed: 04/05/07						
Benzene	52.3		ug/l	50.0		105	80-120			
Toluene	47.8		"	50.0		95.6	80-120			
Ethylbenzene	48.2		"	50.0		96.4	80-120			
Xylene (p/m)	86.7		"	100		86.7	80-120			
Xylene (o)	49.6		"	50.0		99.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*52.3*		"	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.9*		"	*50.0*		*89.8*	*80-120*			
Matrix Spike (ED70412-MS1)		**Source: 7C28008-21**		Prepared: 04/04/07 Analyzed: 04/05/07						
Benzene	0.0539	0.00100	mg/L	0.0500	ND	108	80-120			
Toluene	0.0508	0.00100	"	0.0500	ND	102	80-120			
Ethylbenzene	0.0495	0.00100	"	0.0500	ND	99.0	80-120			
Xylene (p/m)	0.0943	0.00100	"	0.100	ND	94.3	80-120			
Xylene (o)	0.0532	0.00100	"	0.0500	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.3*		*ug/l*	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.7*		"	*50.0*		*97.4*	*80-120*			

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70412 - EPA 5030C (GC)										
Matrix Spike Dup (ED70412-MSD1)		**Source: 7C28008-21**		Prepared: 04/04/07 Analyzed: 04/05/07						
Benzene	0.0538	0.00100	mg/L	0.0500	ND	108	80-120	0.00	20	
Toluene	0.0504	0.00100	"	0.0500	ND	101	80-120	0.985	20	
Ethylbenzene	0.0510	0.00100	"	0.0500	ND	102	80-120	2.99	20	
Xylene (p/m)	0.0921	0.00100	"	0.100	ND	92.1	80-120	2.36	20	
Xylene (o)	0.0523	0.00100	"	0.0500	ND	105	80-120	0.948	20	
Surrogate: a,a,a-Trifluorotoluene	*52.7*		*ug/l*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.3*		*"*	*50.0*		*96.6*	*80-120*			
Batch ED70506 - EPA 5030C (GC)										
Blank (ED70506-BLK1)				Prepared & Analyzed: 04/05/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*53.5*		*ug/l*	*50.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.5*		*"*	*50.0*		*89.0*	*80-120*			
LCS (ED70506-BS1)				Prepared & Analyzed: 04/05/07						
Benzene	0.0493	0.00100	mg/L	0.0500		98.6	80-120			
Toluene	0.0466	0.00100	"	0.0500		93.2	80-120			
Ethylbenzene	0.0489	0.00100	"	0.0500		97.8	80-120			
Xylene (p/m)	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*49.8*		*ug/l*	*50.0*		*99.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.0*		*"*	*50.0*		*94.0*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70506 - EPA 5030C (GC)										
Calibration Check (ED70506-CCV1)				Prepared & Analyzed: 04/05/07						
Benzene	55.0		ug/l	50.0		110	80-120			
Toluene	50.8		"	50.0		102	80-120			
Ethylbenzene	50.8		"	50.0		102	80-120			
Xylene (p/m)	91.8		"	100		91.8	80-120			
Xylene (o)	52.7		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*54.8*		*"*	*50.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.1*		*"*	*50.0*		*96.2*	*80-120*			
Matrix Spike (ED70506-MS1)		**Source: 7C30008-01**		Prepared & Analyzed: 04/05/07						
Benzene	0.0531	0.00100	mg/L	0.0500	ND	106	80-120			
Toluene	0.0495	0.00100	"	0.0500	ND	99.0	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.0931	0.00100	"	0.100	ND	93.1	80-120			
Xylene (o)	0.0527	0.00100	"	0.0500	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.2*		*ug/l*	*50.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.0*		*"*	*50.0*		*102*	*80-120*			
Matrix Spike Dup (ED70506-MSD1)		**Source: 7C30008-01**		Prepared & Analyzed: 04/05/07						
Benzene	0.0526	0.00100	mg/L	0.0500	ND	105	80-120	0.948	20	
Toluene	0.0493	0.00100	"	0.0500	ND	98.6	80-120	0.405	20	
Ethylbenzene	0.0504	0.00100	"	0.0500	ND	101	80-120	3.42	20	
Xylene (p/m)	0.0919	0.00100	"	0.100	ND	91.9	80-120	1.30	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	0.957	20	
Surrogate: a,a,a-Trifluorotoluene	*52.3*		*ug/l*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.0*		*"*	*50.0*		*96.0*	*80-120*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

DF	Dilution Factor
MDL	Analyte Not Detected at the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: _____ Date: 07/06/07

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant
James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

Analytical Report 279856

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Hobbs Junction Mainline

SRS# 2003-00017

04-APR-07

XENCO Laboratories

ACCREDITED IN ACCORDANCE WITH nelac

12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:
Houston, TX E87603 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

04-APR-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN F H&S
1301 S. COUNTY ROAD 130
Midland, TX 79706

Reference: XENCO Report No: **279856**
Hobbs Junction Mainline
Project Address: Hobbs Junction Mainline

Camille Reynolds:

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: 279856. 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. 279856 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
Odessa Laboratory Director

Certificate of Analysis Summary 279856

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Hubbs Junction Mainline

Project Id: [illegible] | Date Received in Lab: [illegible]

Contact: [illegible] | Report Date: [illegible]

Project Location: [illegible] | Project Manager: [illegible]

Analysis Requested	*Lab Id:*	[illegible]		[illegible]		[illegible]		[illegible]	
	Field Id:	[illegible]		[illegible]		[illegible]		[illegible]	
	Depth:								
	Matrix:	WATER		WATER		WATER		WATER	
	Sampled:	[illegible]		[illegible]		[illegible]		[illegible]	
SVOA PAHs List by EPA 8270C	*Extracted:*	[illegible]		[illegible]		[illegible]		[illegible]	
	Analyzed:	[illegible]		[illegible]		[illegible]		[illegible]	
	Units/RL:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Acenaphthene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Acenaphthylene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Anthracene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Benzo(a)anthracene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Benzo(a)pyrene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Benzo(b)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(ghi)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenzo(a,h)anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-cd)Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Phenanthrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005

[illegible]

Brent Barron

Odessa Laboratory Director

Certificate of Analysis Summary 279856

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Hobbs Junction Mainline

Project Id: [illegible] | Date Received in Lab: [illegible]

Contact: [illegible] | Report Date: [illegible]

Project Location: [illegible] | Project Manager: [illegible]

Analysis Requested	*Lab Id:*	[illegible]		[illegible]		[illegible]		[illegible]	
	Field Id:	[illegible]		[illegible]		[illegible]		[illegible]	
	Depth:								
	Matrix:	WATER		WATER		WATER		WATER	
	Sampled:	Mar-28-07 [illegible]		Mar-28-07 10:35		Mar-28-07 [illegible]		Mar-28-07 [illegible]	
SVOA PAHs List by EPA 8270C	*Extracted:*	[illegible]		[illegible]		[illegible]		[illegible]	
	Analyzed:	[illegible]		[illegible]		[illegible]		[illegible]	
	Units/RL:	[illegible]	RL	[illegible]	RL	[illegible]	RL	[illegible]	RL
Acenaphthene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Acenaphthylene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Anthracene		ND	[illegible]	ND	[illegible]	ND	[illegible]	ND	[illegible]
Benzo(a)anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(b)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(k)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenz(a,h)Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-cd)pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene		0.058	0.005	ND	0.005	ND	0.005	ND	0.005
Phenanthrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005

[illegible]

Brent Barron

Odessa Laboratory Director

Certificate of Analysis Summary 279856

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Hobbs Junction Mainline

Project Id: [illegible] Date Received in Lab: [illegible]

Contact: [illegible] Report Date: [illegible]

Project Location: [illegible] Project Manager: [illegible]

Analysis Requested	Lab ID:	[illegible]		[illegible]	
	Field Id:	[illegible]		[illegible]	
	Depth:				
	Matrix:	WATER		WATER	
	Sampled:	[illegible]		[illegible]	
SVOA PAHs List by EPA 8270C	Extracted:	[illegible]		[illegible]	
	Analyzed:	[illegible]		[illegible]	
	Units/RL:	ug/L	RL	ug/L	RL
Acenaphthene		ND	0.005	ND	0.005
Acenaphthylene		ND	0.005	ND	0.005
Anthracene		ND	0.005	ND	0.005
Benzo(a)Anthracene		ND	0.005	ND	0.005
Benzo(a)Pyrene		ND	0.005	ND	0.005
Benzo(b)Fluoranthene		ND	0.005	ND	0.005
Benzo(k)Fluoranthene		ND	0.005	ND	0.005
Benzo(g,h,i)Perylene		ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005
Dibenzo(a,h)Anthracene		ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005
Indeno(1,2,3-c,d)Pyrene		ND	0.005	ND	0.005
Naphthalene		ND	0.005	0.056	0.005
Phenanthrene		ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005

[illegible]

Brad Barron

Odessa Laboratory Director

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 samples 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.

Form 2 - Surrogate Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: [illegible] **Project ID:** [illegible]

Lab Batch #: [illegible] **Sample:** [illegible] **Batch:** [illegible] **Matrix:** [illegible]

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	[illegible]	0.050	[illegible]	[illegible]	
2-Fluorophenol	[illegible]	[illegible]	[illegible]	[illegible]	
Nitrobenzene-d5	[illegible]	[illegible]	[illegible]	[illegible]	
Phenol-d6	[illegible]	[illegible]	[illegible]	[illegible]	
Terphenyl-D14	[illegible]	0.050	[illegible]	[illegible]	
2,4,6-Tribromophenol	[illegible]	0.050	[illegible]	[illegible]	

Lab Batch #: 694330 **Sample:** 279856-002 SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.022	0.050	44	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.033	0.050	66	33-141	
2,4,6-Tribromophenol	0.034	0.050	68	10-123	

Lab Batch #: 694330 **Sample:** 279856-003 SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.024	0.050	48	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.013	0.050	26	[illegible]	
Terphenyl-D14	0.030	0.050	60	33-141	
2,4,6-Tribromophenol	0.031	0.050	62	10-123	

** Surrogates [illegible]
[illegible]
[illegible]
[illegible]

Form 2 - Surrogate Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: [illegible] **Project ID:** [illegible]

Lab Batch #: [illegible] **Sample:** [illegible] **Batch:** 1 **Matrix:** Water

Units: [illegible]

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	[illegible]	0.050	[illegible]	43-116	
2-Fluorophenol	[illegible]	0.050	[illegible]	21-100	
Nitrobenzene-d5	[illegible]	0.050	[illegible]	35-114	
Phenol-d6	[illegible]	0.050	[illegible]	10-94	
Terphenyl-D14	[illegible]	0.050	[illegible]	33-141	
2,4,6-Tribromophenol	[illegible]	0.050	[illegible]	10-123	

Lab Batch #: 694330 **Sample:** 279856-005 SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.015	0.050	30	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.032	0.050	64	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 694330 **Sample:** 279856-006 SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.025	0.050	50	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.013	0.050	26	10-94	
Terphenyl-D14	0.035	0.050	70	33-141	
2,4,6-Tribromophenol	0.035	0.050	70	10-123	

[illegible]

Form 2 - Surrogate Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: 279856 Project ID: SRS# 2003-00017

Lab Batch #: 694330 Sample: 279856-007 SMP Batch: 1 Matrix: Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.024	0.050	48	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.034	0.050	68	33-141	
2,4,6-Tribromophenol	0.036	0.050	72	10-123	

Lab Batch #: 694330 Sample: 279856-008 SMP Batch: 1 Matrix: Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.024	0.050	48	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.034	0.050	68	33-141	
2,4,6-Tribromophenol	0.035	0.050	70	10-123	

Lab Batch #: 694330 Sample: 279856-009 SMP Batch: 1 Matrix: Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.023	0.050	46	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.031	0.050	62	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

** 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: Hobbs Junction Mainline

Work Order #: 279856 **Project ID:** SRS# 2003-00017

Lab Batch #: 694330 **Sample:** 279856-016 - SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.017	0.050	34	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.013	0.050	26	10-94	
Terphenyl-D14	0.031	0.050	62	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 694330 **Sample:** 493705-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.037	0.050	74	21-100	
Nitrobenzene-d5	0.040	0.050	80	35-114	
Phenol-d6	0.028	0.050	56	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 694330 **Sample:** 493705-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.024	0.050	48	10-94	
Terphenyl-D14	0.035	0.050	70	33-141	
2,4,6-Tribromophenol	0.034	0.050	68	10-123	

** 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: Hobbs Junction Mainline

Work Order #: 279856

Project ID: SRSA-2003-0001

Lab Batch #: 994330 Sample: 493705-1-BSD / BSD Batch: 1 Matrix: Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.038	0.050	76	21-100	
Nitrobenzene-d5	0.041	0.050	82	35-114	
Phenol-d6	0.028	0.050	56	10-94	
Terphenyl-D14	0.042	0.050	84	33-141	
2,4,6-Tribromophenol	0.038	0.050	76	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

BS / BSD Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: 279856 **Project ID:** SRS# 2003-00017

Analyst: TTD **Date Prepared:** 03/30/2007 **Date Analyzed:** 04/02/2007

Lab Batch ID: 694330 **Sample:** 493705-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	ND	0.050	0.042	84	0.05	0.045	90	7	27-132	31	
Acenaphthylene	ND	0.050	0.041	82	0.05	0.043	86	5	46-108	25	
Anthracene	ND	0.050	0.044	88	0.05	0.044	88	0	47-145	25	
Benzo(a)anthracene	ND	0.050	0.045	90	0.05	0.047	94	4	33-143	25	
Benzo(a)pyrene	ND	0.050	0.043	86	0.05	0.045	90	5	65-135	25	
Benzo(b)fluoranthene	ND	0.050	0.045	90	0.05	0.046	92	2	24-159	25	
Benzo(k)fluoranthene	ND	0.050	0.043	86	0.05	0.044	88	2	25-125	25	
Benzo(g,h,i)perylene	ND	0.050	0.030	60	0.05	0.033	66	10	65-135	25	1
Chrysene	ND	0.050	0.045	90	0.05	0.047	94	4	65-135	25	
Dibenz(a,h)Anthracene	ND	0.050	0.034	68	0.05	0.035	70	3	50-125	25	
Fluoranthene	ND	0.050	0.043	86	0.05	0.044	88	2	47-123	25	
Fluorene	ND	0.050	0.042	84	0.05	0.044	88	5	48-139	25	
Indeno(1,2,3-c,d)Pyrene	ND	0.050	0.033	66	0.05	0.034	68	3	27-161	25	
Naphthalene	ND	0.050	0.041	82	0.05	0.044	88	7	26-175	25	
Phenanthrene	ND	0.050	0.045	90	0.05	0.045	90	0	65-135	25	
Pyrene	ND	0.050	0.044	88	0.05	0.046	92	4	23-152	31	

Relative Percent Difference RPD = 200*[(D-F)/(D+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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: S. Smith
Company Name: Talon LPE
Company Address: #9 E Industrial Rd.
City/State/Zip: Midland, Tx. 79701
Telephone No: 432-522-2133
Fax No: 432-522-2180
Sampler Signature: Luke Bolle
e-mail: ssmith@talonLPE.com

Project Name: Plains 047 SPL
Project #: 3rd 2003-00017
Project Loc: Lea Co. Pipeline 8"
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ UCR

(lab use only)
ORDER #: TC29012

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl (2) 40mL 1695	H_2SO_4	NaOH	$NaHSO_4$	None (1) 1mL 1695	Other (Specify)	Matrix: Drinking Water / Groundwater / Surface Water / Soil / Sludge / Sediment / Other (Specify)	Analyze For: TCLP / TOTAL: TPH 418.1 / 8015 GRO / DRO	Chlorides (Cl) / Sulfates (SO4) / Alkalinity (CO3, HCO3)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As, Ag, Ba, Cd, Cr, Pb, Se, Hg	Volatiles	Semivolatiles	BTEX 8021B / 8260	MTBE	TPH				RUSH TAT (pre-schedule) 24, 48, 72 hrs	Standard TAT
-01	MW-7			3/28/07	1127	3	✓		X				X		GW								✓	✓		X				
-02	MW-8				1114		✓								GW								✓	✓						
-03	MW-9				1104		✓								GW								✓	✓						
-04	MW-10				1052		✓								GW								✓	✓						
-05	MW-11				1524		✓								GW								✓	✓						
-06	MW-13				1631		✓								GW								✓	✓						
	~~MW-15~~ not sampled			—	~~1552~~	—	✓								GW								✓	✓						
-07	MW-16				1552		✓								GW								✓	✓						
-08	MW-18				1646		✓								GW								✓	✓						
-09	MW-19				1622		✓								GW								✓	✓						

Special Instructions:
Plains Camile Requests

Relinquished by	Date	Time	Received by	Date	Time
Luke Bolle	3/28/07		[signature]	3/29/07	0800
[signature]	3/29/07	0845			
			Received by ELOT: Andrea Fa[illegible]	3/30/07	[illegible]

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on containers? Y N
Custody seals on coolers? Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS FedEx Lone Star

Temperature Upon Receipt: 3 C

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: S. Smith
Company Name: Talon LPE
Company Address: #9 E. Industrial Rd.
City/State/Zip: Midland, Tx. 79701
Telephone No: 432-522-2133
Fax No: 432-522-2180
Sampler Signature:
E-mail: ssmith@talonLPE.com

Project Name: Plains Oil Site
Project #: SOSH 2[illegible]
Project Loc: Hobbs Junction Highway
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: TC29012

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl (2) 40 ml vials	H2SO4	NaOH	Na2S2O3	None (1) Liquid Phase	Other (Specify)	Matrix: Soil/Solid	Water	Liquid Phase	Specify Other	Analyze For: TPH: Total 418.1 EPA 1664	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, HCO3, CO3)	Solids: TDS, TSS, CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	EPA 8021 BTEX	RCI	N.O.R.M.	Radium		RUSH TAT (pre-schedule) 24 48 72 hrs	Standard TAT
-10	MW-20			3/28/07	1538	3	✓		✓						GW											✓			✓				

Special Instructions: Plains Camille Reynolds

Relinquished by	Date	Time	Received by	Date	Time
[signature]	3/28/07		[signature]	3/28/07	0100
[signature]	3/29/07	0845			
			Received by ELOT: Andrea Fa[illegible]		

Laboratory Comments:
Sample Containers intact
VOCs Free of Headspace
Custody seals on containers
Custody seals on coolers
Sample Hand Delivered
by Sampler/Client Rep.
by Courier UPS Lone Star Fed Ex Lone Star

Temperature Upon Receipt: °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: [illegible] / Talon

Date/ Time: [illegible]

Lab ID #: 7C29012

Initials: JMM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	-3.0 °C (corrected)	
#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? VOA's only	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

Analytical Report 284675

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Junction Main Line

2003-00017

29-JUN-07

12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

29-JUN-07

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

Reference: XENCO Report No: **284675**
Junction Main Line
Project Address: Hobbs, NM

Camille Reynolds:

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 284675. 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. 284675 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
Odessa Laboratory Director

Sample Cross Reference 284675

PLAINS ALL AMERICAN EH&S, Midland, TX

Junction Main Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10	W	Jun-20-07 10:45		284675-001
MW-19	W	Jun-20-07 10:52		284675-002
MW-18	W	Jun-20-07 10:59		284675-003
MW-16	W	Jun-20-07 11:06		284675-004
MW-11	W	Jun-20-07 11:12		284675-005
MW-20	W	Jun-20-07 11:20		284675-006

Certificate of Analysis Summary 284675

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Junction Main Line

Project Id: 2003-00017
Contact: Camille Reynolds
Project Location: Hobbs, NM

Date Received in Lab: Thu Jun-21-07 11:30 am
Report Date: 29-JUN-07
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	284675-001		284675-002		284675-003		284675-004		284675-005		284675-006	
	Field Id:	MW-10		MW-19		MW-18		MW-16		MW-11		MW-20	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Jun-20-07 10:45		Jun-20-07 10:52		Jun-20-07 10:59		Jun-20-07 11:06		Jun-20-07 11:12		Jun-20-07 11:20	
BTEX by EPA 8021B	*Extracted:*	Jun-26-07 16:54		Jun-26-07 16:54		Jun-26-07 16:54		Jun-26-07 16:54		Jun-26-07 16:54		Jun-26-07 16:54	
	Analyzed:	Jun-29-07 01:57		Jun-29-07 02:18		Jun-29-07 02:38		Jun-29-07 02:59		Jun-28-07 09:25		Jun-28-07 09:46	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		4.648	0.0500	ND	0.0010	ND	0.0010	0.0013	0.0010	17.86	0.0500	20.17	0.0500
Toluene		ND	0.0500	ND	0.0010	ND	0.0010	ND	0.0010	1.420	0.0500	ND	0.0500
Ethylbenzene		0.3300	0.0500	ND	0.0010	ND	0.0010	ND	0.0010	1.836	0.0500	1.624	0.0500
m,p-Xylene		ND	0.1000	ND	0.0020	ND	0.0020	ND	0.0020	1.125	0.1000	0.4090	0.1000
o-Xylene		ND	0.0500	ND	0.0010	ND	0.0010	ND	0.0010	0.3620	0.0500	ND	0.0500
Total Xylenes		ND		ND		ND		ND		1.487		0.409	
Total BTEX		4.978		ND		ND		0.0013		22.603		22.203	

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Brent Barron
Odessa Laboratory Director

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.

Form 2 - Surrogate Recoveries

Project Name: Junction Main Line

Work Order #: 284675 **Project ID:** 2003-00017

Lab Batch #: 699323 **Sample:** 284675-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0553	0.0500	111	80-120	

Lab Batch #: 699323 **Sample:** 284675-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0517	0.0500	103	80-120	

Lab Batch #: 699323 **Sample:** 284675-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0542	0.0500	108	80-120	

Lab Batch #: 699323 **Sample:** 284675-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0537	0.0500	107	80-120	

Lab Batch #: 699323 **Sample:** 284675-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0490	0.0500	98	80-120	

** 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: Junction Main Line

Work Order #: 284675 **Project ID:** 2003-00017

Lab Batch #: 699323 **Sample:** 284675-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0499	0.0500	100	80-120	

Lab Batch #: 699323 **Sample:** 285023-007 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0536	0.0500	107	80-120	

Lab Batch #: 699323 **Sample:** 285023-007 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0537	0.0500	107	80-120	

Lab Batch #: 699323 **Sample:** 496525-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0577	0.0500	115	80-120	

Lab Batch #: 699323 **Sample:** 496525-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	ND	ND		80-120	*U
4-Bromofluorobenzene	0.0540	0.0500	108	80-120	

** 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.

Blank Spike Recovery

Project Name: Junction Main Line

Work Order #: 284675 **Project ID:** 2003-00017

Lab Batch #: 699323 **Sample:** 496525-1-BKS **Matrix:** Water

Date Analyzed: 06/27/2007 **Date Prepared:** 06/26/2007 **Analyst:** CELKEE

Reporting Units: mg/L **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Benzene	ND	0.0500	0.0528	106	70-125	
Toluene	ND	0.0500	0.0545	109	70-125	
Ethylbenzene	ND	0.0500	0.0586	117	71-129	
m,p-Xylene	ND	0.1000	0.1023	102	70-131	
o-Xylene	ND	0.0500	0.0573	115	71-133	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS / MSD Recoveries

Project Name: Junction Main Line

Work Order # : 284675

Project ID: 2003-00017

Lab Batch ID: 699323

QC- Sample ID: 285023-007 S

Batch #: 1

Matrix: Water

Date Analyzed: 06/28/2007

Date Prepared: 06/26/2007

Analyst: CELKEE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.0500	0.0563	113	0.0500	0.0554	111	2	70-125	25	
Toluene	ND	0.0500	0.0565	113	0.0500	0.0557	111	2	70-125	25	
Ethylbenzene	ND	0.0500	0.0591	118	0.0500	0.0580	116	2	71-129	25	
m,p-Xylene	ND	0.1000	0.1025	103	0.1000	0.1007	101	2	70-131	25	
o-Xylene	ND	0.0500	0.0578	116	0.0500	0.0575	115	1	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative Percent Difference RPD = 200*(D-G)/(D+G)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
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Project Manager: Shanna Smith
Company Name: Talon LPE
Company Address: #9 E Industrial Loop
City/State/Zip: Midland, TX 79701
Telephone No: (432) 522-2133 Fax No: (432) 522-2180
Sampler Signature: Jodie Butler e-mail: Ssmith@Talonlpe.com

Project Name: Junction Mainline
Project #: Plains 0475PL 2007-00017
Project Loc: Hobbs, NM
PO #: Camille Reynolds
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 284675

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl VOC's	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: Drin-Drinking Water SL-Sludge GW-Groundwater S-Soil/Solid NP-Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	BD1504	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/8030 or BTEX 8260	HCl	N O R M			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-10			6/21/07	1045		2	X		X						GW											X						X
02	MW-19				1052																												
03	MW-12				1059																												
04	MW-16				1106																												
05	MW-11				1112																												
06	MW-20				1120																												

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Jodie Butler	6/21/07	1130			
Relinquished by:	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			Andrea Fann	6-4-07	11:30

Laboratory Comments:
Sample Containers intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s)? Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Talon

Date/ Time: 6-21-07 11:30

Lab ID #: 289675

Initials: GL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

Analytical Report 289939

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Hobbs Junction Mainline

2003-00017

27-SEP-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-SEP-07

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

Reference: XENCO Report No: **289939**
Hobbs Junction Mainline
Project Address: Lea County, NM

Camille Reynolds:

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 289939. 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. 289939 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
Odessa Laboratory Director

Sample Cross Reference 289939

PLAINS ALL AMERICAN EH&S, Midland, TX

Hobbs Junction Mainline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-7	W	Sep-19-07 13:20		289939-001
MW-11	W	Sep-19-07 13:15		289939-002
MW-9	W	Sep-19-07 13:45		289939-003
MW-16	W	Sep-19-07 13:40		289939-004
MW-20	W	Sep-19-07 13:58		289939-005
MW-13	W	Sep-19-07 14:05		289939-006
MW-10	W	Sep-19-07 13:52		289939-007
MW-18	W	Sep-19-07 13:50		289939-008
MW-8	W	Sep-19-07 13:34		289939-009
MW-19	W	Sep-19-07 13:25		289939-010

Certificate of Analysis Summary 289939

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Hobbs Junction Mainline

Project Id: 2003-00017
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Thu Sep-20-07 10:03 am
Report Date: 27-SEP-07
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	289939-001		289939-002		289939-003		289939-004		289939-005		289939-006	
	Field Id:	MW-7		MW-11		MW-9		MW-16		MW-20		MW-13	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Sep-19-07 13:20		Sep-19-07 13:15		Sep-19-07 13:45		Sep-19-07 13:40		Sep-19-07 13:58		Sep-19-07 14:05	
BTEX by EPA 8021B	*Extracted:*	Sep-25-07 18:20		Sep-26-07 10:00		Sep-21-07 09:10		Sep-21-07 09:08		Sep-26-07 10:00		Sep-21-07 09:12	
	Analyzed:	Sep-25-07 19:58		Sep-26-07 15:30		Sep-21-07 10:43		Sep-21-07 12:36		Sep-26-07 15:46		Sep-21-07 12:53	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	18.35	0.1000	ND	0.0010	ND	0.0010	31.67	0.1000	ND	0.0010
Toluene		ND	0.0010	0.5280	0.1000	ND	0.0010	ND	0.0010	ND	0.1000	ND	0.0010
Ethylbenzene		ND	0.0010	1.399	0.1000	ND	0.0010	ND	0.0010	1.850	0.1000	ND	0.0010
m,p-Xylene		ND	0.0020	0.6450	0.2000	ND	0.0020	ND	0.0020	0.2510	0.2000	ND	0.0020
o-Xylene		ND	0.0010	0.1770	0.1000	ND	0.0010	ND	0.0010	ND	0.1000	ND	0.0010
Total Xylenes		ND		0.822		ND		ND		0.251		ND	
Total BTEX		ND		21.099		ND		ND		33.771		ND	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 289939

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Hobbs Junction Mainline

Project Id: 2003-00017
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Thu Sep-20-07 10:03 am
Report Date: 27-SEP-07
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	289939-007		289939-008		289939-009		289939-010	
	Field Id:	MW-10		MW-18		MW-8		MW-19	
	Depth:								
	Matrix:	WATER		WATER		WATER		WATER	
	Sampled:	Sep-19-07 13:52		Sep-19-07 13:50		Sep-19-07 13:34		Sep-19-07 13:25	
BTEX by EPA 8021B	*Extracted:*	Sep-26-07 10:00		Sep-26-07 10:00		Sep-25-07 18:20		Sep-25-07 18:20	
	Analyzed:	Sep-26-07 16:03		Sep-26-07 16:20		Sep-25-07 21:20		Sep-25-07 21:36	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	ND	0.0010	0.0052	0.0010	ND	0.0010
Toluene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylene		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
Total Xylenes		ND		ND		ND		ND	
Total BTEX		ND		ND		0.0052		ND	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

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.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Lab Batch #: 704769 **Sample:** 289939-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 704769 **Sample:** 289939-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 704769 **Sample:** 289939-004 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 704769 **Sample:** 289939-004 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 704769 **Sample:** 289939-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

** 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: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Lab Batch #: 704769 **Sample:** 499607-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 704769 **Sample:** 499607-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 705065 **Sample:** 289939-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 705065 **Sample:** 289939-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 705065 **Sample:** 289939-010 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

** 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: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Lab Batch #: 705065 **Sample:** 499756-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	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	0.0276	0.0300	92	80-120	

Lab Batch #: 705065 **Sample:** 499756-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 705065 **Sample:** 499756-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 705112 **Sample:** 289939-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	2.957	3.000	99	80-120	
4-Bromofluorobenzene	2.289	3.000	76	80-120	**

Lab Batch #: 705112 **Sample:** 289939-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	2.830	3.000	94	80-120	
4-Bromofluorobenzene	2.232	3.000	74	80-120	**

** 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: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Lab Batch #: 705112 **Sample:** 289939-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 705112 **Sample:** 289939-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 705112 **Sample:** 499788-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 705112 **Sample:** 499788-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 705112 **Sample:** 499788-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

** 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.

Blank Spike Recovery

Project Name: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Lab Batch #: 704769 **Sample:** 499607-1-BKS **Matrix:** Water

Date Analyzed: 09/21/2007 **Date Prepared:** 09/21/2007 **Analyst:** JBU

Reporting Units: mg/L **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Benzene	ND	0.1000	0.0985	99	70-125	
Toluene	ND	0.1000	0.0977	98	70-125	
Ethylbenzene	ND	0.1000	0.0974	97	71-129	
m,p-Xylene	ND	0.2000	0.1947	97	70-131	
o-Xylene	ND	0.1000	0.0974	97	71-133	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Hobbs Junction Mainline

Work Order #: 289939 **Project ID:** 2003-00017

Analyst: SHE **Date Prepared:** 09/25/2007 **Date Analyzed:** 09/25/2007

Lab Batch ID: 705065 **Sample:** 499756-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0945	95	0.1	0.0945	95	0	70-125	25	
Toluene	ND	0.1000	0.0936	94	0.1	0.0939	94	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0942	94	0.1	0.0948	95	1	71-129	25	
m,p-Xylene	ND	0.2000	0.1873	94	0.2	0.1888	94	1	70-131	25	
o-Xylene	ND	0.1000	0.0936	94	0.1	0.0944	94	1	71-133	25	

Analyst: SHE **Date Prepared:** 09/26/2007 **Date Analyzed:** 09/26/2007

Lab Batch ID: 705112 **Sample:** 499788-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0965	97	0.1	0.0963	96	0	70-125	25	
Toluene	ND	0.1000	0.0963	96	0.1	0.0963	96	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0957	96	0.1	0.0961	96	0	71-129	25	
m,p-Xylene	ND	0.2000	0.1902	95	0.2	0.1915	96	1	70-131	25	
o-Xylene	ND	0.1000	0.0936	94	0.1	0.0948	95	1	71-133	25	

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

XENCO Laboratories

Project Name: Hobbs Junction Mainline

Work Order # : 289939 **Project ID:** 2003-00017

Lab Batch ID: 704769 **QC- Sample ID:** 289939-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/21/2007 **Date Prepared:** 09/21/2007 **Analyst:** JBU

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0838	84	0.1000	0.0900	90	7	70-125	25	
Toluene	ND	0.1000	0.0829	83	0.1000	0.0896	90	8	70-125	25	
Ethylbenzene	ND	0.1000	0.0850	85	0.1000	0.0920	92	8	71-129	25	
m,p-Xylene	ND	0.2000	0.1690	85	0.2000	0.1834	92	8	70-131	25	
o-Xylene	ND	0.1000	0.0844	84	0.1000	0.0923	92	9	71-133	25	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

Phone: [illegible]
Fax: 432-563-1713

Project Name: Hobbs Junction Mainline
Project #: PLAINS 047 SPL
Project Loc: Lea County, NM
PO #: 2003-00017
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

Project Manager: Shanna Smith
Company Name: Talon LPE
Company Address: 2901 Rankin Hwy
City/State/Zip: Midland, TX 79706
Telephone No: 432-522-2133
Fax No:
e-mail: ssmith@TalonLPE.com
Sampler Signature: Cinto Chung / Jeff Cramer

(lab use only)
ORDER #: 289939

Analyze For: TCLP: / TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl VOC	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix (DW=Drinking Water, GW=Groundwater, NP=Non-Potable, SL=Sludge, S=Soil/Solid, Specify Other)	TPH: 418.1 / 8015M 8015B	TPH: TX 1005 / TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B / 8030 or BTEX 8250	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-7			9/19/07	1320		2	X		X						GW									X				X
02	MW-11			9/19/07	1315		2	X		X						GW									X				X
03	MW-9			9/19/07	1345		2	X		X						GW									X				X
04	MW-16			9/19/07	1340		2	X		X						GW									X				X
05	MW-20			9/19/07	1358		2	X		X						GW									X				X
06	MW-13			9/19/07	1405		2	X		X						GW									X				X
07	MW-10			9/19/07	1352		2	X		X						GW									X				X
08	MW-18			9/19/07	1350		2	X		X						GW									X				X
09	MW-8			9/19/07	1334		2	X		X						GW									X				X
10	MW-19			9/19/07	1325		2	X		X						GW									X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Cinto Chung	9-20-07	1003			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	9-20-07	10:03

Laboratory Comments:

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

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 0.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Talon

Date/ Time: 9.20.07 10:03

Lab ID # : 2891939

Initials: CL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	0.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: #8 COC states mw-# containers state # only

Corrective Action Taken:

Check all that Apply:

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

Analytical Report 294072

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Junction Mainline

SRS# 2003-00017

12-DEC-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

12-DEC-07

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

Reference: XENCO Report No: **294072**
Junction Mainline
Project Address: Hobbs, NM

Camille Reynolds:

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 294072. 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. 294072 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

Sample Cross Reference 294072

PLAINS ALL AMERICAN EH&S, Midland, TX

Junction Mainline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10	W	Dec-05-07 14:07		294072-001
MW-11	W	Dec-05-07 13:52		294072-002
MW-16	W	Dec-05-07 13:25		294072-003
MW-18	W	Dec-05-07 13:35		294072-004
MW-19	W	Dec-05-07 13:41		294072-005
MW-20	W	Dec-05-07 13:50		294072-006
MW-21	W	Dec-05-07 15:00		294072-007
MW-22	W	Dec-05-07 15:15		294072-008

Certificate of Analysis Summary 294072

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Junction Mainline

Project Id: SRS# 2003-00017
Contact: Camille Reynolds
Project Location: Hobbs, NM

Date Received in Lab: Thu Dec-06-07 08:00 am
Report Date: 12-DEC-07
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	294072-001		294072-002		294072-003		294072-004		294072-005		294072-006	
	Field Id:	MW-10		MW-11		MW-16		MW-18		MW-19		MW-20	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Dec-05-07 14:07		Dec-05-07 13:52		Dec-05-07 13:25		Dec-05-07 13:35		Dec-05-07 13:41		Dec-05-07 13:50	
BTEX by EPA 8021B	*Extracted:*	Dec-12-07 08:24		Dec-12-07 08:24		Dec-12-07 08:24		Dec-11-07 11:10		Dec-11-07 11:10		Dec-12-07 08:24	
	Analyzed:	Dec-12-07 13:47		Dec-12-07 14:03		Dec-12-07 14:20		Dec-11-07 14:42		Dec-11-07 14:59		Dec-12-07 14:37	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		7.375	0.0200	17.89	0.0500	0.0034	0.0010	0.0039	0.0010	0.0020	0.0010	31.41	0.1000
Toluene		ND	0.0400	1.365	0.1000	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.2000
Ethylbenzene		0.5106	0.0200	1.290	0.0500	ND	0.0010	ND	0.0010	ND	0.0010	1.749	0.1000
m,p-Xylenes		ND	0.0400	0.7575	0.1000	ND	0.0020	ND	0.0020	ND	0.0020	0.2220	0.2000
o-Xylene		ND	0.0200	0.2535	0.0500	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.1000
Xylenes, Total		ND		1.011		ND		ND		ND		0.222	
Total BTEX		7.8856		21.556		0.0034		0.0039		0.002		33.381	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 294072

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Junction Mainline

Project Id: SRS# 2003-00017
Contact: Camille Reynolds
Project Location: Hobbs, NM

Date Received in Lab: Thu Dec-06-07 08:00 am
Report Date: 12-DEC-07
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	294072-007		294072-008					
	Field Id:	MW-21		MW-22					
	Depth:								
	Matrix:	WATER		WATER					
	Sampled:	Dec-05-07 15:00		Dec-05-07 15:15					
BTEX by EPA 8021B	*Extracted:*	Dec-12-07 08:24		Dec-11-07 11:10					
	Analyzed:	Dec-12-07 14:53		Dec-11-07 15:49					
	Units/RL:	mg/L	RL	mg/L	RL				
Benzene		0.0590	0.0010	0.1621	0.0010				
Toluene		0.0033	0.0020	0.0028	0.0020				
Ethylbenzene		0.0040	0.0010	ND	0.0010				
m,p-Xylenes		ND	0.0020	0.0040	0.0020				
o-Xylene		ND	0.0010	ND	0.0010				
Xylenes, Total		ND		0.004					
Total BTEX		0.0663		0.1689					

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Form 2 - Surrogate Recoveries

Project Name: Junction Mainline

Work Order #: 294072 **Project ID:** SRS# 2003-00017

Lab Batch #: 710227 **Sample:** 294072-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 710227 **Sample:** 294072-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 710227 **Sample:** 294072-005 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	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	0.0263	0.0300	88	80-120	

Lab Batch #: 710227 **Sample:** 294072-005 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 710227 **Sample:** 294072-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

** 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: Junction Mainline

Work Order #: 294072 **Project ID:** SRS# 2003-00017

Lab Batch #: 710227 **Sample:** 502382-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 710227 **Sample:** 502382-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 710227 **Sample:** 502382-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY 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	0.0269	0.0300	90	80-120	

Lab Batch #: 710260 **Sample:** 294072-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 710260 **Sample:** 294072-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

** 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: Junction Mainline

Work Order #: 294072 **Project ID:** SRS# 2003-00017

Lab Batch #: 710260 **Sample:** 294072-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

Lab Batch #: 710260 **Sample:** 294072-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 710260 **Sample:** 294072-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 710260 **Sample:** 502403-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 710260 **Sample:** 502403-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

** 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: Junction Mainline

Work Order #: 294072 **Project ID:** SRS# 2003-00017

Lab Batch #: 710260 **Sample:** 502403-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

BS / BSD Recoveries

Project Name: Junction Mainline

Work Order #: 294072 **Project ID:** SRS# 2003-00017

Analyst: SHE **Date Prepared:** 12/11/2007 **Date Analyzed:** 12/11/2007

Lab Batch ID: 710227 **Sample:** 502382-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1093	109	0.1	0.1095	110	0	70-125	25	
Toluene	ND	0.1000	0.1079	108	0.1	0.1058	106	2	70-125	25	
Ethylbenzene	ND	0.1000	0.1110	111	0.1	0.1045	105	6	71-129	25	
m,p-Xylenes	ND	0.2000	0.2206	110	0.2	0.2035	102	8	70-131	25	
o-Xylene	ND	0.1000	0.1087	109	0.1	0.1004	100	8	71-133	25	

Analyst: SHE **Date Prepared:** 12/12/2007 **Date Analyzed:** 12/12/2007

Lab Batch ID: 710260 **Sample:** 502403-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1012	101	0.1	0.1038	104	3	70-125	25	
Toluene	ND	0.1000	0.0984	98	0.1	0.1011	101	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0966	97	0.1	0.1000	100	3	71-129	25	
m,p-Xylenes	ND	0.2000	0.1897	95	0.2	0.1965	98	4	70-131	25	
o-Xylene	ND	0.1000	0.0939	94	0.1	0.0971	97	3	71-133	25	

Relative Percent Difference RPD = 200*|(D-F)/(D+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: Junction Mainline

Work Order # : 294072

Project ID: SRS# 2003-00017

Lab Batch ID: 710227 **QC- Sample ID:** 294072-005 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/11/2007 **Date Prepared:** 12/11/2007 **Analyst:** SHE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0020	0.1000	0.1022	100	0.1000	0.1005	99	1	70-125	25	
Toluene	ND	0.1000	0.0973	97	0.1000	0.0978	98	1	70-125	25	
Ethylbenzene	ND	0.1000	0.0955	96	0.1000	0.0969	97	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1869	93	0.2000	0.1900	95	2	70-131	25	
o-Xylene	ND	0.1000	0.0945	95	0.1000	0.0963	96	1	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative Percent Difference RPD = 200*(D-G)/(D+G)

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

XENCO Laboratories

☐ 11381 Meadowglen, Suite L, Houston TX 77082 281-589-0692
☐ 5309 Wurzbach, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Morrison Lane, Suite D, Dallas, TX 75228 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2618 South Falkenburg Rd, Riverview, Fl 33569 813-620-2000

LAB ONLY: 294072

Serial #: 179638 Page 1 of 1

Company-City: Talon/LPE
Phone: 432-522-2133
TAT: 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Project Name: Junction Mainline ☐ Previously performed at XENCO
Site: Hobbs, NM
Project ID: PLAINS047SPL

Proj. Manager (PM): Shanna Smith
Fax Results to ☐ PM or
Fax No:
e-mail to: SSmith@talonlpe.com

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to: PLAINS Camille Reynolds SRS# 2003-00017

Quote No:
P.O No:
☐ Call for a P.O.

Reg Program: CLP AFCEE TRRP DW UST State Other:

Target DLs (DW CRDL TRRP QAPP MDLs See Lab PM Attached Call)

TRRP PCLs: Tier 1 Tier 2 Residential Industrial

LPST No.:(Required)

Sampler Name: Carl Vessels Signature: Carl Vessels

	Sample ID	Sampling Date	Time	Depth ft' in' m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	BTEX by 8021 8260 602 624 Other	BTEX-MTBE by 8021 8260 624 Other	TPH by TX1005 FL.Pro 1664 8015GRO 8015DRO 418.1	PAHs by 8270 8310	Metals by 6020 200.8 8RCRA Tot Pb TCLP8 13PP 23TAL	VOCs by 8021 8260 624 VOA VOH PPs TCL	SVOCs by 8270 625 PAHs BN&A TCL PPs	FL Preburn - Revised: Virgin Non-Virgin	TAT 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Disposal Hold Analysis (Surcharges will apply)	Sample Clean-ups are pre-approved	Remarks
1	MW-10	12/5/07	1407		W		X	2	V	Hal.	HCL	X								X				
2	MW-11	12/5/07	1352		W		X	2	V		HCL	X												
3	MW-16	12/5/07	1325		W		X	2	V		HCL	X												
4	MW-18	12/5/07	1335		W		X	2	V		HCL	X												
5	MW-19	12/5/07	1341		W		X	2	V		HCL	X												
6	MW-20	12/5/07	1350		W		X	2	V		HCL	X												
7	MW-21	12/5/07	1500		W		X	2	V		HCL	X												
8	MW-22	12/5/07	1515		W		X	2	V		HCL	X								X				
9																								
10																								

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1 [signature]	12/6/07 0800		
2			
3		Lab: [signature]	12/06/07 8:00

Rush Charges are Pre-Approved upon requesting them.
Instructions:
All XENCO Standard Terms and Conditions Apply
Containers Received: 16 Cl seals Cooler Temperature -2.5 / not frozen

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool.<4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

SDBE Committed to Excellence in Service and Quality since 1990

www.xenco.com

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 12/06/01 08:00

Lab ID #: 294012

Initials: gmt

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	-2.5 not frozen	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

APPENDIX D

NMOCD C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company **EOTT Energy Pipeline, LP**	Contact **Frank Hernandez**
Address **5805 East Hwy 80**	Telephone No. **915-638-3799**
Facility Name **Hobbs Junction Mainline**	Facility Type **10" Crude Oil Pipeline**

Surface Owner **State of NM**	Mineral Owner **NA**	Lease No. **NA**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from South Line	Feet from West Line	Longitude	Latitude	County:
M	**26**	**18S**	**37E**	**15**	**700**	**W103:13:42.01**	**N32:42:40.85**	**Lea**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **50 bbl**	Volume Recovered **24 bbl**
Source of Release **Steel Pipeline**	Date and Hour of Occurrence **1/23/03-8:00 AM**	Date and Hour of Discovery **1/23/03-10:45 AM**
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? **Sylvia Dickie - Hobbs NMOCD**	
By Whom? **Pat McCasland - EPI**	Date and Hour **1/23/03-11:35 AM**	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Corroded pipeline (internal), repaired with clamp

Describe Area Affected and Cleanup Action Taken.*
~12500-ft^2 surface area affected; 50-bbl released; 24-bbl of crude recovered. Removal and disposal of contaminated soil above remedial goals was commenced by EPI.

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

Signature: Frank Hernandez	**OIL CONSERVATION DIVISION**	
Printed Name: **Frank Hernandez**	Approved by District Supervisor:	
Title: **District Environmental Supervisor**	Approval Date:	Expiration Date:
Date: **1/24/03** Phone: **915-638-3799**	Conditions of Approval:	☐ Attached

Attach Additional Sheets If Necessary

EOTT Energy Pipeline, LP	**Incident Date and NMOCD Notified?**
Site Information and Metrics	**1/23/03-10:45 AM** **1/23/03-11:35 AM**

SITE:	Hobbs Junction Mainline	Assigned Site Reference #:	2003-00017
Company:	EOTT Energy Pipeline, LP		
Street Address:	5805 East Hwy 80		
Mailing Address:	PO Box 1660		
City, State, Zip:	Midland, TX 79701		
Representative:	Frank Hernandez		
Representative Telephone:	915-638-3799		
Telephone:			
Fluid volume released (bbls):	50	Recovered (bbls):	24
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name:	2003-00017		
Source of contamination:	Steel Pipeline		
Land Owner, i.e., BLM, ST, Fee, Other:	State of NM		
LSP Dimensions:	500-ft X 50-ft (W-E)		
LSP Area:	12500 -ft^2		
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude:	N32:42:40.85		
Longitude:	W103:13:42.01		
Elevation above mean sea level:	3681 -ft amsl		
Feet from South Section Line:	15		
Feet from West Section Line:	700		
Location - Unit or 1/4 1/4:	UL- M SW 1/4 of SW 1/4		
Location - Section:	26		
Location - Township:	18S		
Location - Range:	37E		
Surface water body within 1000' radius of Site:	0		
Surface water body within 1000' radius of Site:	0		
Domestic water wells within 1000' radius of Site:	0		
Domestic water wells within 1000' radius of Site:	0		
Agricultural water wells within 1000' radius of Site:	1		
Agricultural water wells within 1000' radius of Site:	0		
Public water supply wells within 1000' radius of Site:	0		
Public water supply wells within 1000' radius of Site:	0		
Depth (ft) from land surface to ground water (DG):	38		
Depth (ft) of contamination (DC):	5		
Depth (ft) to ground water (DG - DC = DtGW):	33		

1. Ground Water	**2. Wellhead Protection Area**	**3. Distance to Surface Water Body**
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or, <200' from private domestic water source: *20 points*	<100 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: *10 points*		200-1000 horizontal feet: 10 points
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or, >200' from private domestic water source: *0 points*	>1000 horizontal feet: 0 points
Ground water Score: 20	*Wellhead Protection Area Score: 20*	*Surface Water Score: 0*
Site Rank (1+2+3) = 40		

Total Site Ranking Score and Acceptable Concentrations

Parameter	**20 or >**	10	0
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis