

AP - 29

ANNUAL MONITORING REPORT

YEAR(S):
2007



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KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
2007 ANNUAL GROUNDWATER
MONITORING REPORT
LEA COUNTY, NEW MEXICO
PLAINS SRS #2000-10757

Section 3, Township 18 South, Range 37 East

Prepared for:

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

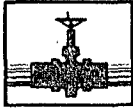
Prepared by:

Talon/LPE
Shanna L. Smith
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Distribution:

Copy 1 – Plains Lovington
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March 28, 2008



**PLAINS
ALL AMERICAN**

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2008 APR 1 PM 2 12

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
Lovington Deep 6"
Hobbs Junction Mainline
Kimbrough Sweet 8"
8" Moore to Jal #1
8" Moore to Jal #2

Section 6, Township 17 South, Range 37 East, Lea County
Section 6, Township 17 South, Range 36 East, Lea County
Section 26, Township 18 South, Range 37 East, Lea County
Section 3, Township 18 South, Range 37 East, Lea County
Section 16, Township 17 South, Range 37 East, Lea County
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
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

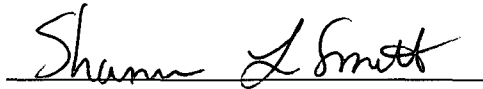
Enclosures

Kimbrough Sweet 8"
2007 Annual Groundwater Monitoring Report

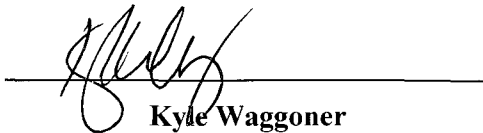
Plains Marketing, L.P.
Houston, Texas

Talon/LPE PROJECT NO. PLAINS045SPL

Prepared by:

A handwritten signature in black ink, appearing to read "Shanna L. Smith", is written over a horizontal line.

Shanna L. Smith
Project Manager

A handwritten signature in black ink, appearing to read "Kyle Waggoner", is written over a horizontal line.

Kyle Waggoner
Regional Manager

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

March 2008

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

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Appendix D NMOCD C-141

ANNUAL GROUNDWATER MONITORING REPORT

1.0 Introduction

The Kimbrough Sweet 8" site is located approximately 7 miles northwest of Hobbs, Lea County, New Mexico, on property owned by the state of New Mexico. There are no residences, groundwater wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from the 8" steel pipeline on October 25, 2000. At the time of the release, the pipeline was under the ownership of EOTT Energy Pipeline. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Pipeline, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 60 barrels (bbls) of crude oil were released and impacted approximately 15,613 feet of surface area. Approximately 22 bbls of crude oil were initially recovered.

On February 5, 2007, Talon/LPE was retained by Plains to assume remediation activities at the Kimbrough 8" Sweet release site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

2.0 Previous Groundwater Investigation/Remediation

A total of eleven groundwater monitor wells have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor wells MW-1, MW-2, MW-3, and MW-4 were installed in January 2002. Ground monitor wells MW-5, MW-7, MW-8, and MW-9 were installed in July 2004, and MW-6, MW-10, and MW-11 were installed in December 2004.

PSH recovery operations have been performed at the site since January 2002. A summary of the historical groundwater and PSH gauging is provided as Table 1. Approximately 3,970 gallons (95 bbls) of phase-separated hydrocarbon (PSH) have been recovered to date.

3.0 Groundwater Gradient and PSH Thickness

Based on gauging data collected during 2007, groundwater elevations measured at the site generally varied by less than five feet during the course of the calendar year. Additionally, groundwater elevations at the site indicate "mounding" of the potentiometric surface in the vicinity of the release, which results in a variable apparent groundwater flow direction across the site. The overall groundwater gradient across the site appears to trend generally to the east. Based on available data, the groundwater gradient slope is 0.007 ft/ft. Groundwater gradient maps are presented as Figures 2a through 2d.

During 2007 gauging events, PSH thickness measurements from readings from the monitor wells ranged from "not-present" to a maximum of 9.59 feet (MW-2). Due to continual product recovery operations, the PSH affected monitor wells appear to exhibit inconsistent PSH thickness readings. PSH thickness measurements for selected dates are presented as Figures 3a through 3d.

4.0 PSH Recovery

Six skimmer pumps were installed in June 2007. In 2007, approximately 875 gallons (21 bbls) of crude oil were recovered from the subsurface and reintroduced into the Plains pipeline system at Lea Station. The total volume of PSH recovered as of December 31, 2007, is approximately 3,967 gallons (95 bbls).

5.0 Groundwater Sampling

Based on NMOCD recommendations, monitor wells MW-1, MW-3, and MW-4 were sampled and analyzed semi-annually for benzene, toluene, ethylbenzene and total xylenes (BTEX) and annually for poly-aromatic hydrocarbons (PAH). Due to the BTEX concentrations exhibited at MW-3 and MW-4, these wells were also sampled during the fourth quarter. Monitor well MW-10 was sampled and analyzed quarterly for BTEX and annually for PAH.

Groundwater sampling events occurred on April 2, June 13, September 13, and December 3, 2007. During the sampling events that occurred on April 2 and September 13, groundwater samples collected from MW-1, MW-3, MW-4, and MW-10 were submitted for quantification of BTEX using SW-846 Method 8021B. In addition, groundwater samples from the April 2, 2007 sampling event were submitted for quantification of PAH using EPA/SW-846 Methods 610 and 8270C. Monitor wells MW-3 and MW-4 exhibited elevated BTEX constituents in the third sampling quarter. Therefore, both were again sampled on December 3, 2007, and analyzed for BTEX. On June 13 and December 3, 2007, the groundwater sample collected from monitor well MW-10 was submitted for quantification of BTEX by SW-846 Method 8021B.

Groundwater samples were not collected from monitor wells MW-2, MW-5 through MW-9, and MW-11 during 2007, due to the presence of PSH. These monitor wells will be added to the quarterly sampling/analysis when PSH is no longer present.

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	0.030

April 2, 2007

During the April 2, 2007 sampling event, groundwater samples collected from monitor wells MW-1, MW-3, MW-4, and MW-10 were submitted for quantification of BTEX and PAH. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limits in monitor well MW-3. The benzene concentration in monitor well MW-3 (0.369 mg/L) exceeded the NMWQCC ground water standard. PAH constituents were reported below the NMWQCC groundwater standards for all monitor wells sampled (MW-1, MW-3, MW-4, and MW-10).

June 13, 2007

On June 13, 2007, groundwater samples collected from monitor well MW-10 were submitted for quantification of BTEX. Analytical results indicate that BTEX constituents were not detected above the laboratory reporting limits in monitor well MW-10. The remaining wells were not sampled during this event.

September 13, 2007

During the September 13, 2007 sampling event, groundwater samples collected from monitor wells MW-1, MW-3, MW-4, and MW-10 were submitted for quantification of BTEX. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-3 and MW-4. The BTEX constituent concentrations exceeded the NMWQCC groundwater standard in monitor well MW-3 (benzene at 18.43 mg/L, toluene at 0.9471 mg/L, and total xylenes at 2.9391 mg/L).

December 3, 2007

On December 3, 2007, groundwater samples collected from monitor wells MW-3, MW-4 and MW-10 were submitted for quantification of BTEX. Analytical results indicate that BTEX constituents were detected above the laboratory reporting limit in monitor wells MW-3, MW-4 and MW-10. The benzene concentration exceeded the NMWQCC groundwater standard in monitor well MW-3 (3.898 mg/L).

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) Operate and maintain the existing skimmer recovery system to achieve maximum PSH recovery.
- 3) Monitor well MW-1 will be sampled and analyzed for BTEX semi-annually and PAH annually.

- 4) Monitor well MW-3, MW-4, and MW-10 will be sampled and analyzed for BTEX quarterly unless the BTEX concentrations decline to less than laboratory reporting limits. At which time, monitor well MW-3 and/or MW-4 will be sampled and analyzed for BTEX semi-annually.
- 5) Monitor wells MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-11 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) One additional monitor well will be proposed in 2008 to address down-gradient delineation of the dissolve-phase plume. Upon approval from the SLO, the monitor well will be installed east or down-gradient of monitor well MW-3.

Appendix A

Drawings

Figure 1 – Site Plan

Figure 2a – Groundwater Gradient Map (04/02/2007)

Figure 2b – Groundwater Gradient Map (06/13/2007)

Figure 2c – Groundwater Gradient Map (09/13/2007)

Figure 2d – Groundwater Gradient Map (12/03/2007)

Figure 3a – PSH Thickness & Groundwater Concentration Map (04/02/2007)

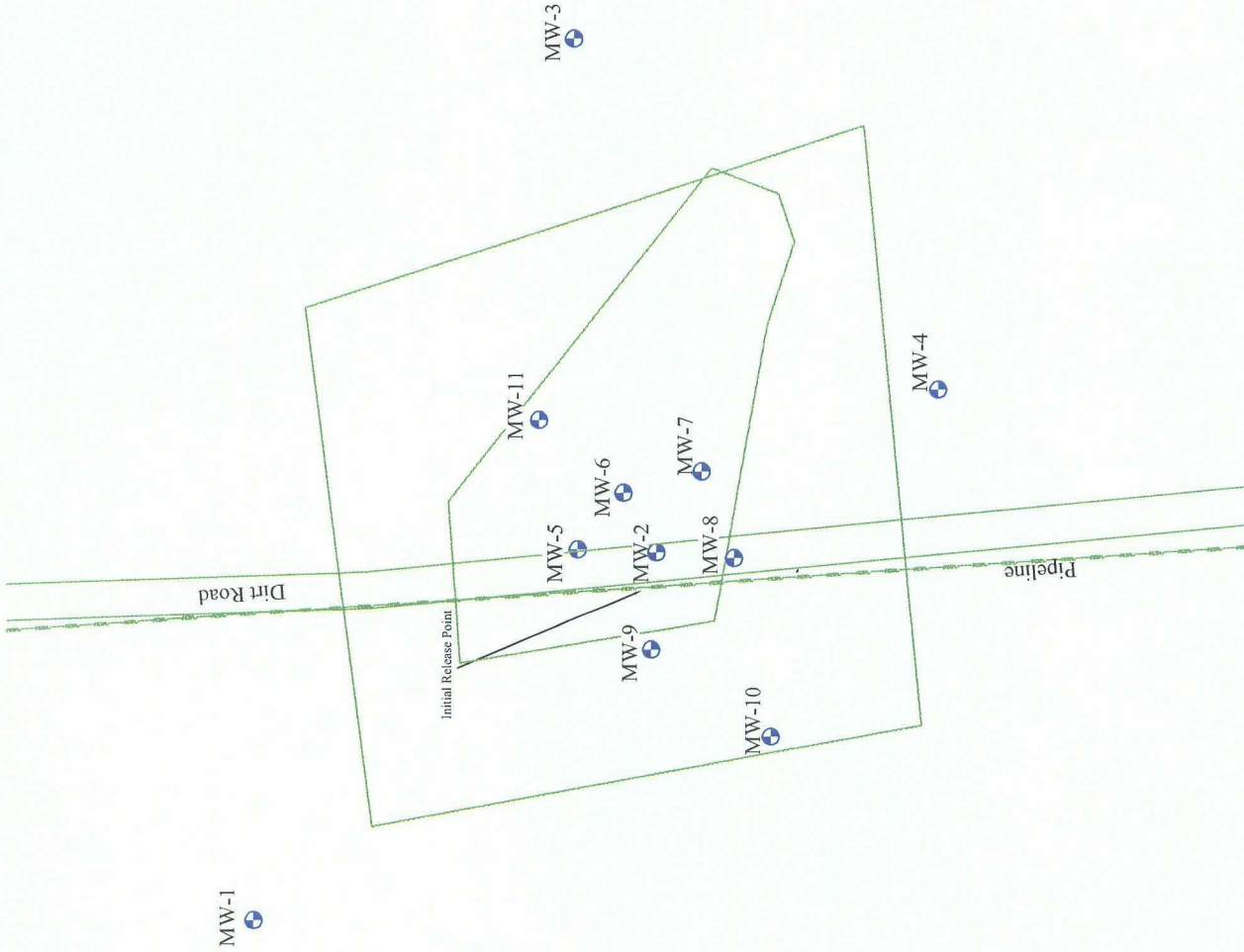
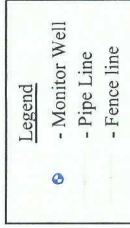
Figure 3b – PSH Thickness & Groundwater Concentration Map (06/13/2007)

Figure 3c – PSH Thickness & Groundwater Concentration Map (09/13/2007)

Figure 3d – PSH Thickness & Groundwater Concentration Map (12/03/2007)



0 50 100
Scale in Feet



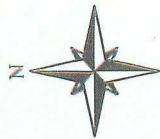
Kimbrough Sweet #2000-10757
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E
Lea County, New Mexico
Figure 1 - Site Plan

Date: 02/22/2008

Scale: 1" = 100'

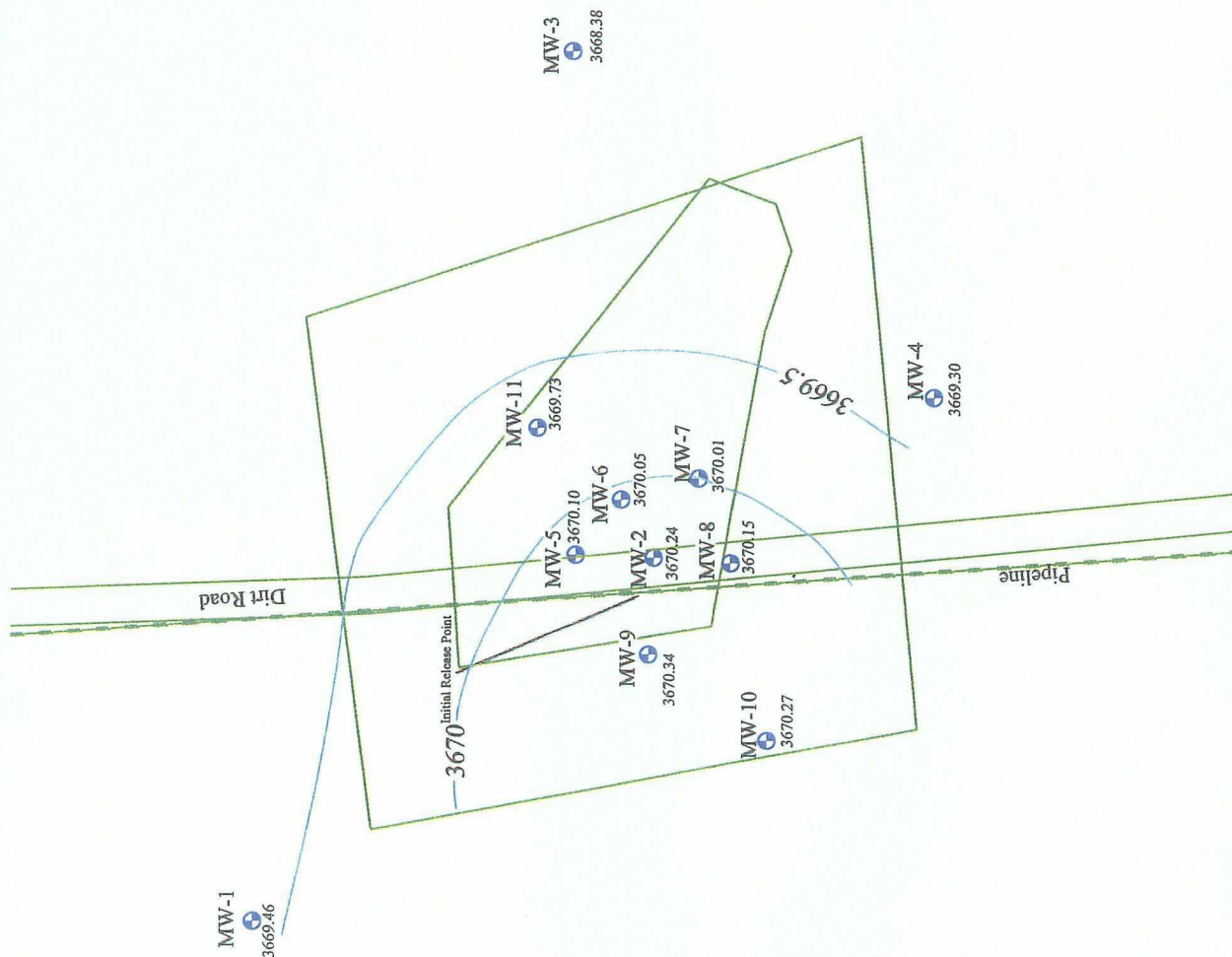
Drawn By: SJA





Legend

- Monitor Well
- Pipe Line
- Fence line
- Groundwater Gradient Contour Line
- 81.30 - Groundwater Gradient Contour Elevation



Date: 02/29/2008

Scale: 1" = 100'

Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)

SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

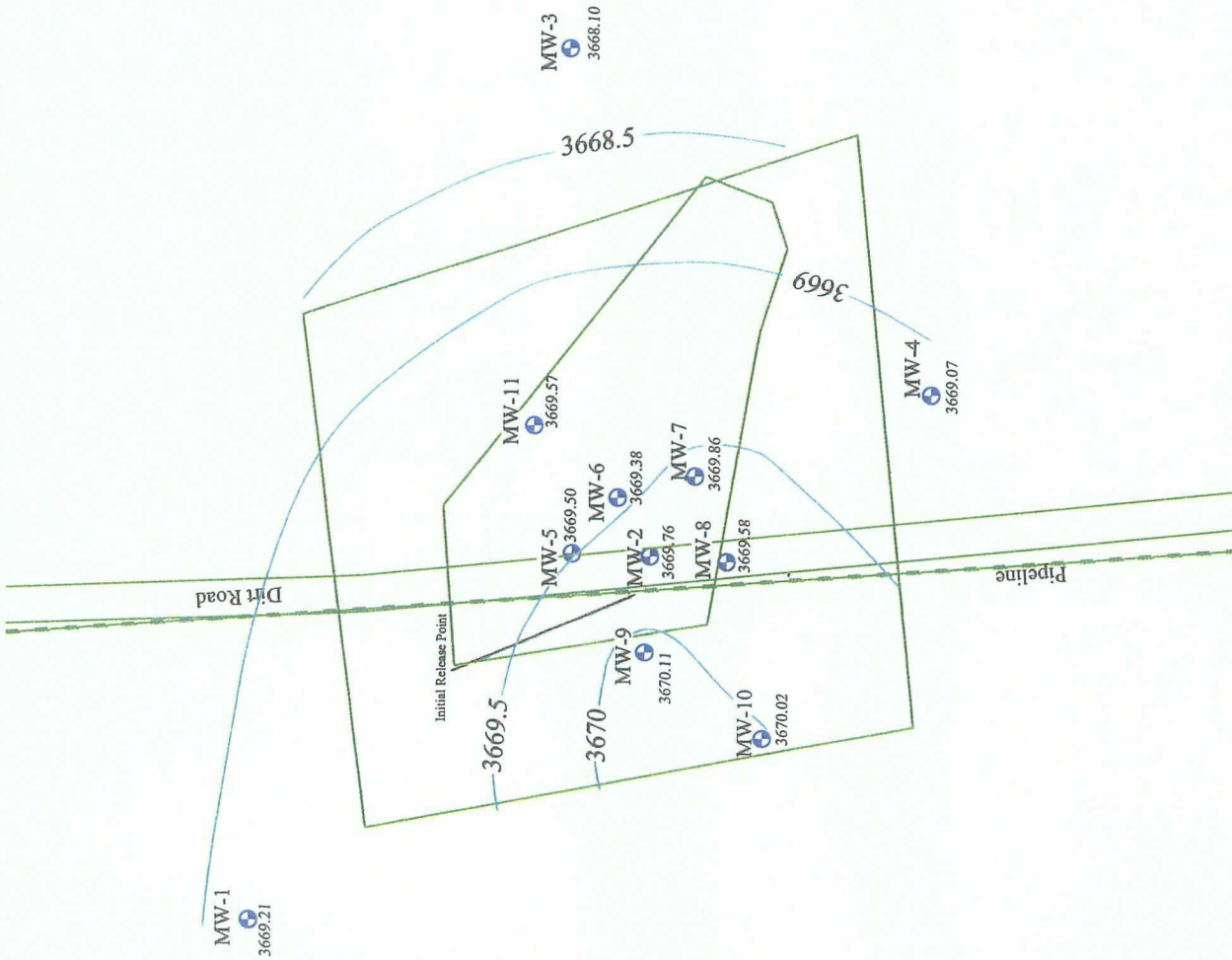
Figure 2a - Groundwater Gradient Map, (04/02/2007)



Legend

- Monitor Well
- Pipe Line
- Fence line
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation

81.30



Kimbrough Sweet 8" (PLAIN045SPL)

SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

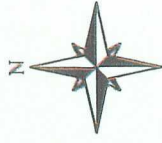
Figure 2b - Groundwater Gradient Map, (06/26/2007)

Date: 02/29/2008

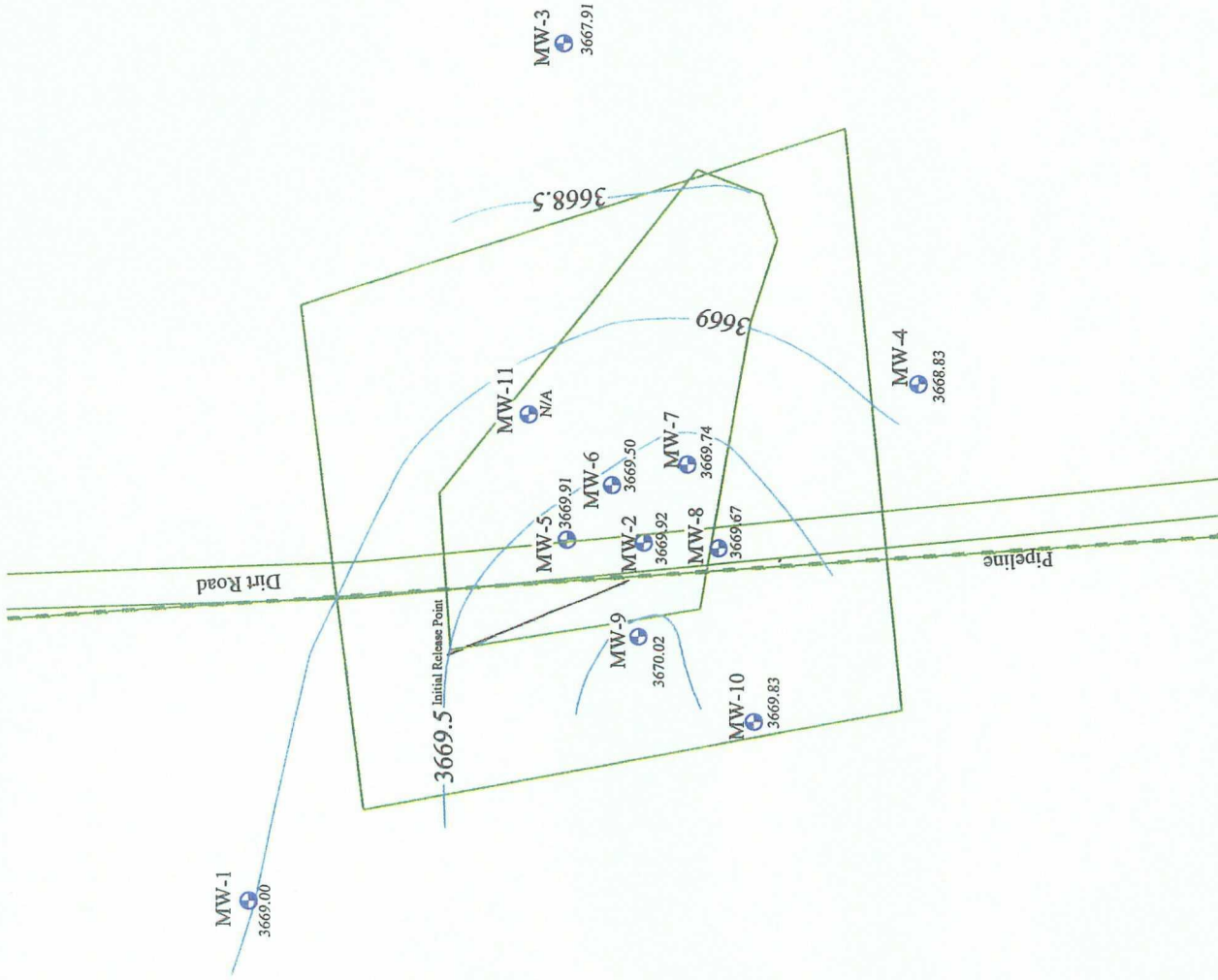
Scale: 1" = 100'

Drawn By: SJA





- Legend
- Monitor Well
 - Pipe Line
 - Fence line
 - Groundwater Gradient Contour Line
 - Groundwater Gradient Contour Elevation



Kimbrough Sweet 8" (PLAINS045SPL)

SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

Figure 2c - Groundwater Gradient Map, (09/13/2007)

Date: 02/29/2008

Scale: 1" = 100'

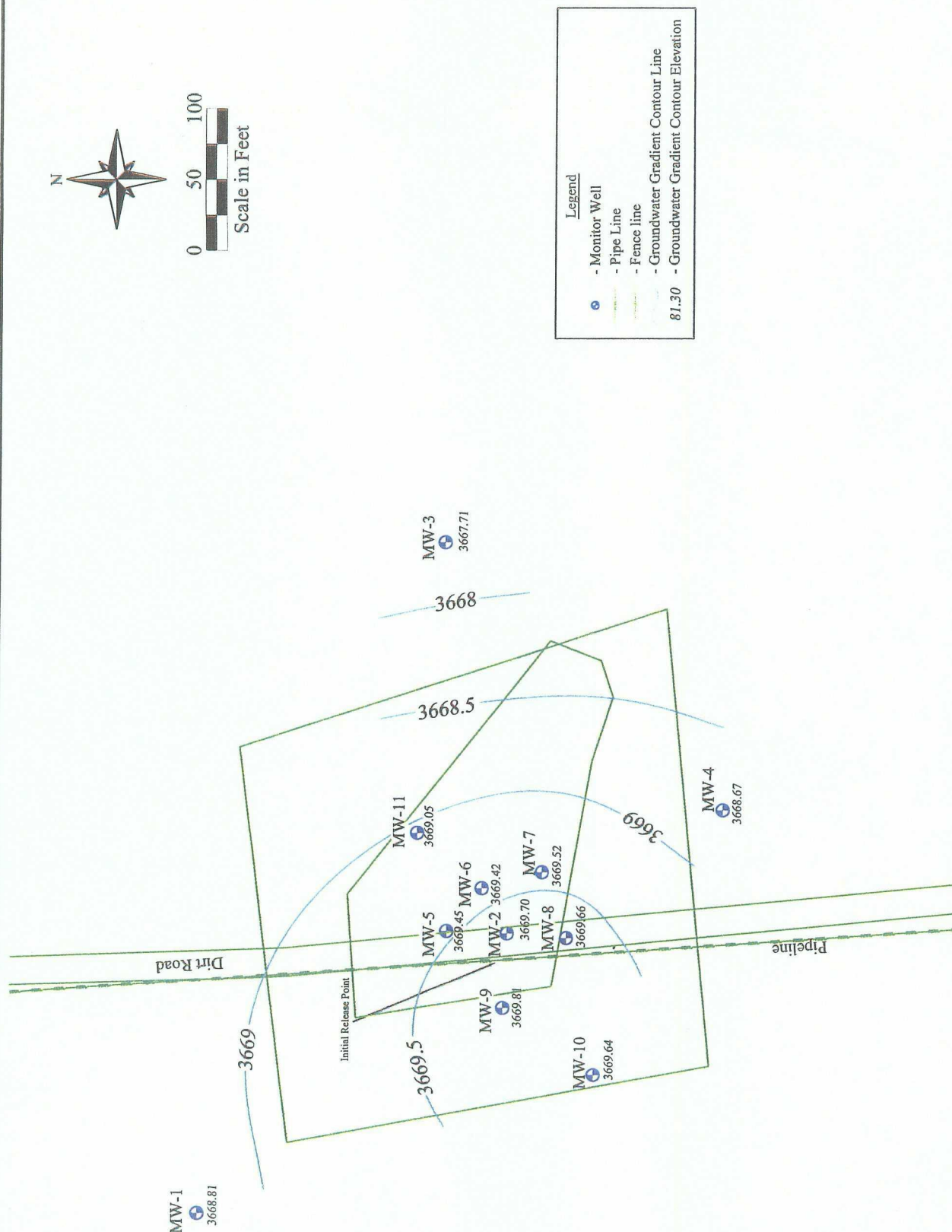
Drawn By: SJA





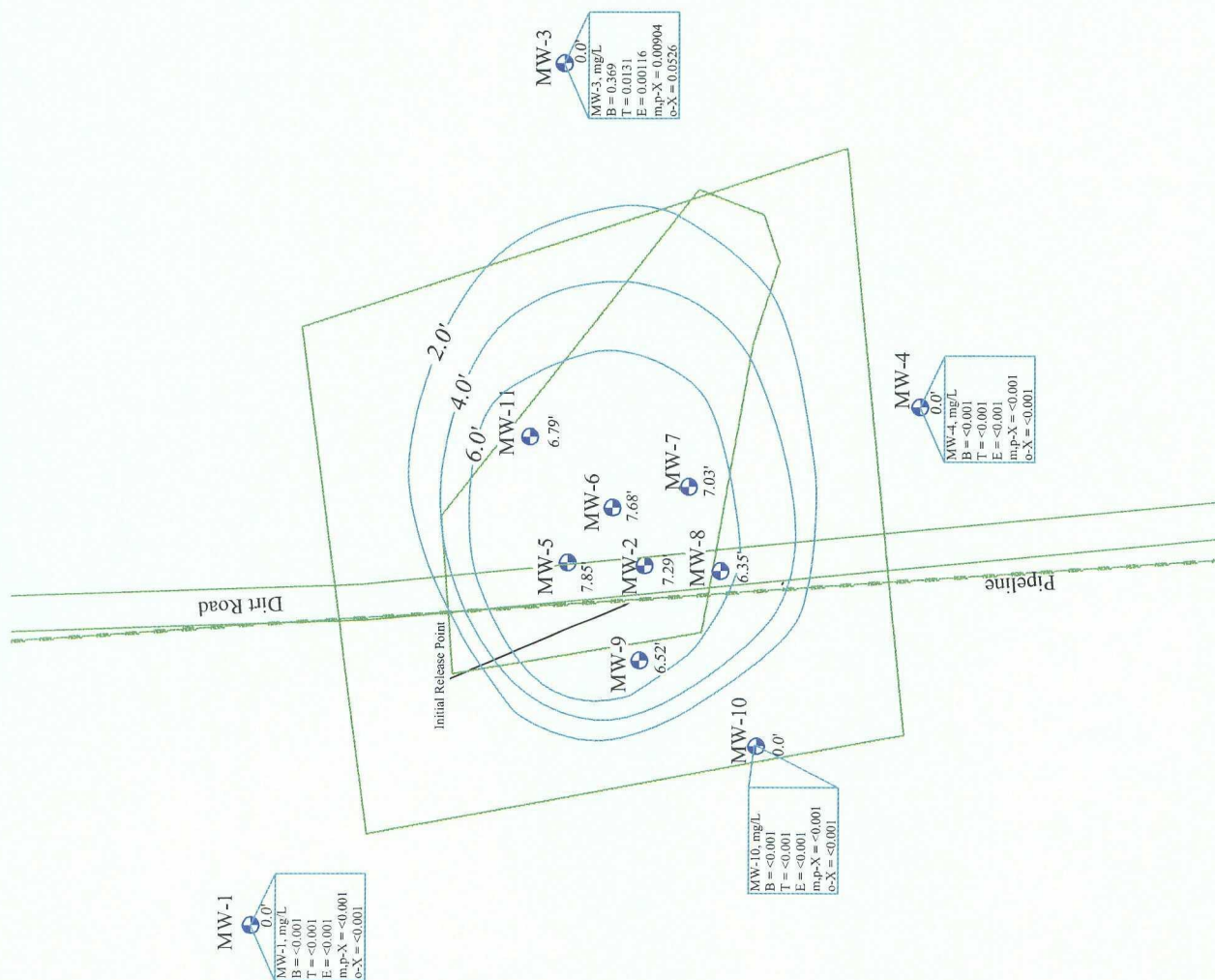
Date: 02/29/2008
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 Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)
 SRS # 2000-10757, NMOCD REF. # AP-0029
 SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico
 Figure 2d - Groundwater Gradient Map, (12/03/2007)





0 50 100
Scale in Feet



- Legend**
- Monitor Well
 - Pipe Line
 - Fence line
 - PSH Thickness Contour Line
 - 2.0' - PSH Thickness Contour Elevation (1.05')
 - Data not used



Date: 02/26/2008

Scale: 1" = 100'

Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)

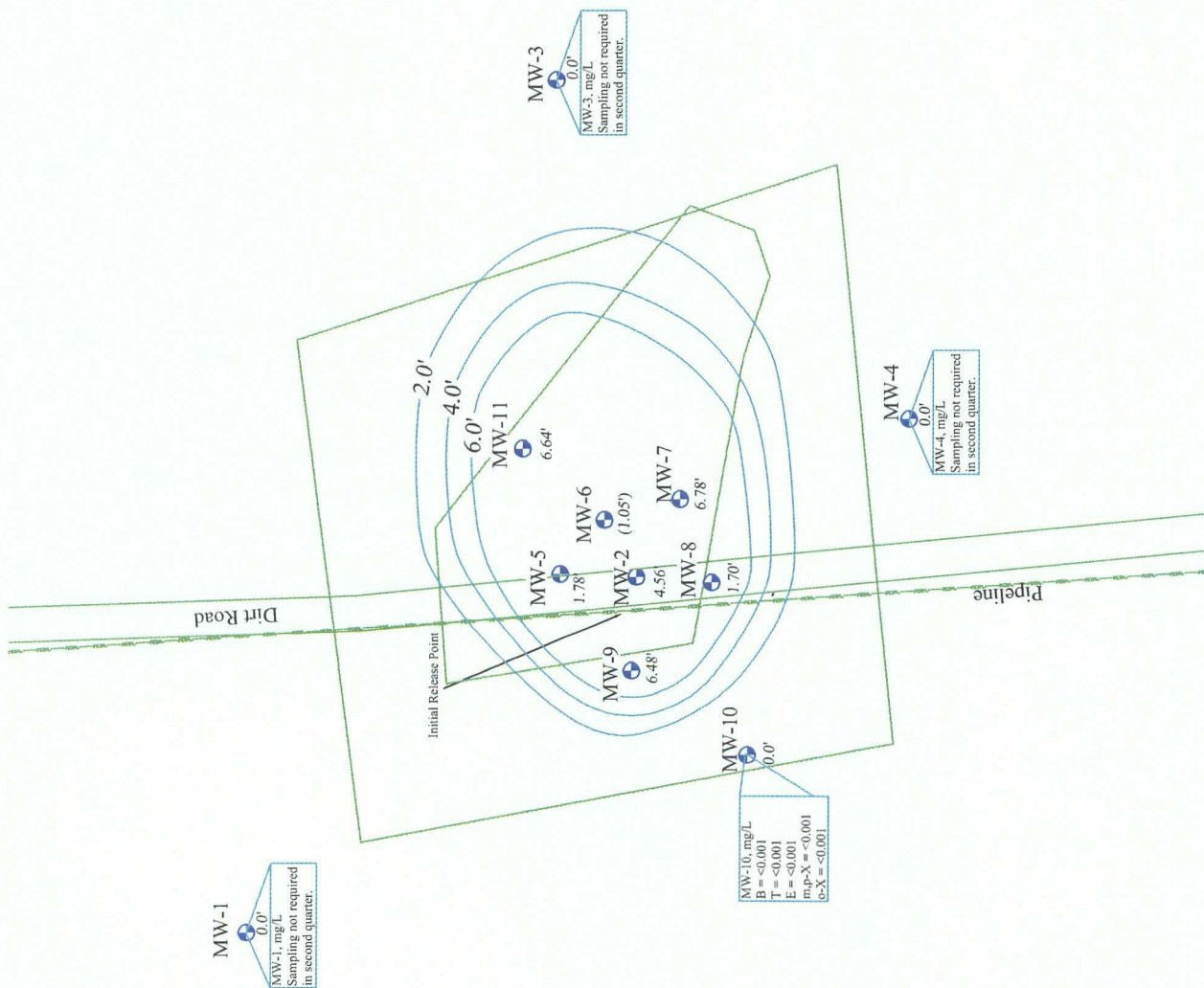
SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (04/02/2007)



- Legend**
- Monitor Well
 - Pipe Line
 - Fence line
 - PSH Thickness Contour Line
 - 2.0' - PSH Thickness Contour Elevation (1.05')
 - Data not used



Date: 02/26/2008

Scale: 1" = 100'

Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)

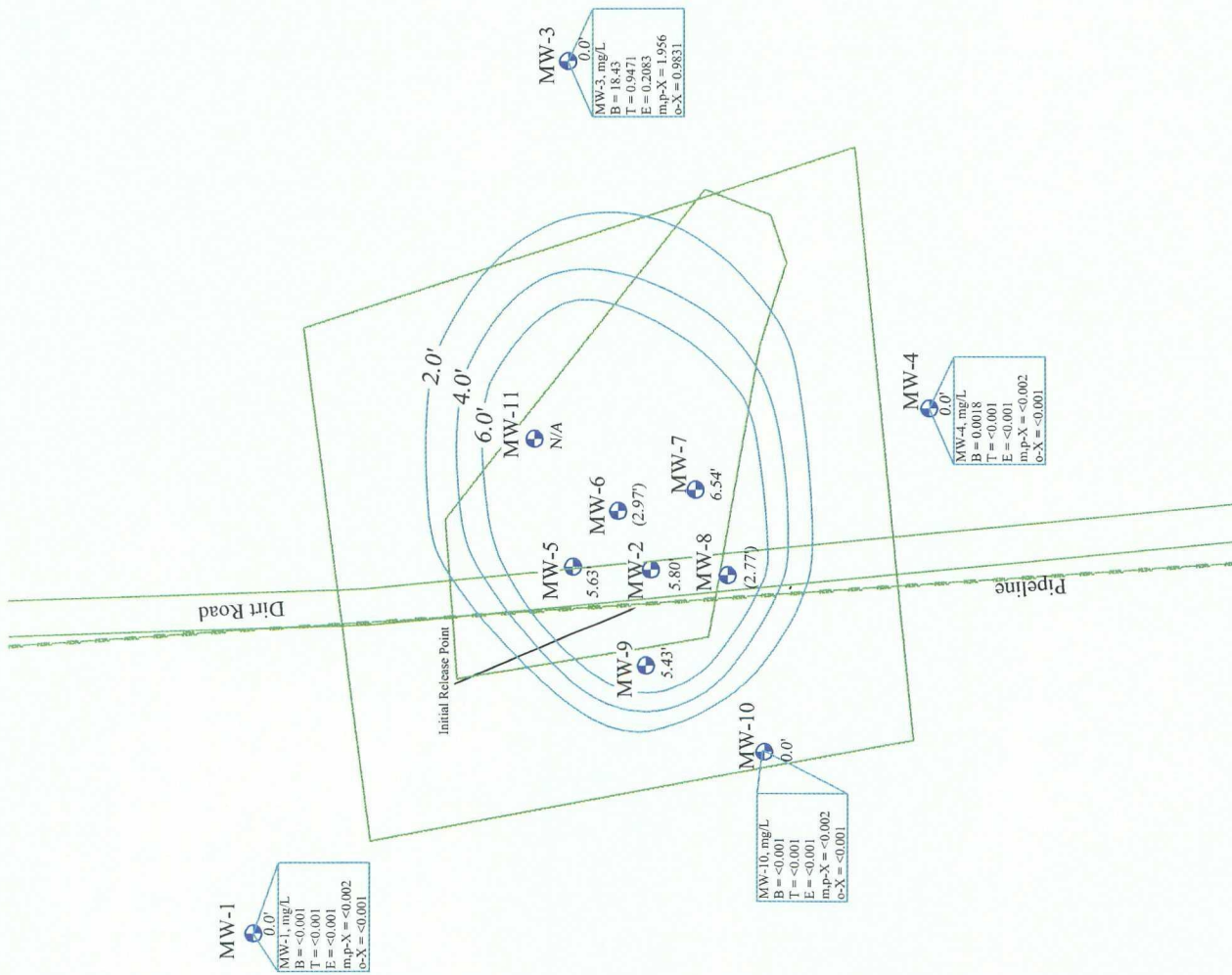
SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

Figure 3b - PSH Thickness & Groundwater Concentration Map, (06/13/2007)



0 50 100
Scale in Feet



- Legend**
- Monitor Well
 - Pipe Line
 - Fence line
 - PSH Thickness Contour Line
 - PSH Thickness Contour Elevation (1.05')
 - Data not used



Date: 02/26/2008

Scale: 1" = 100'

Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)

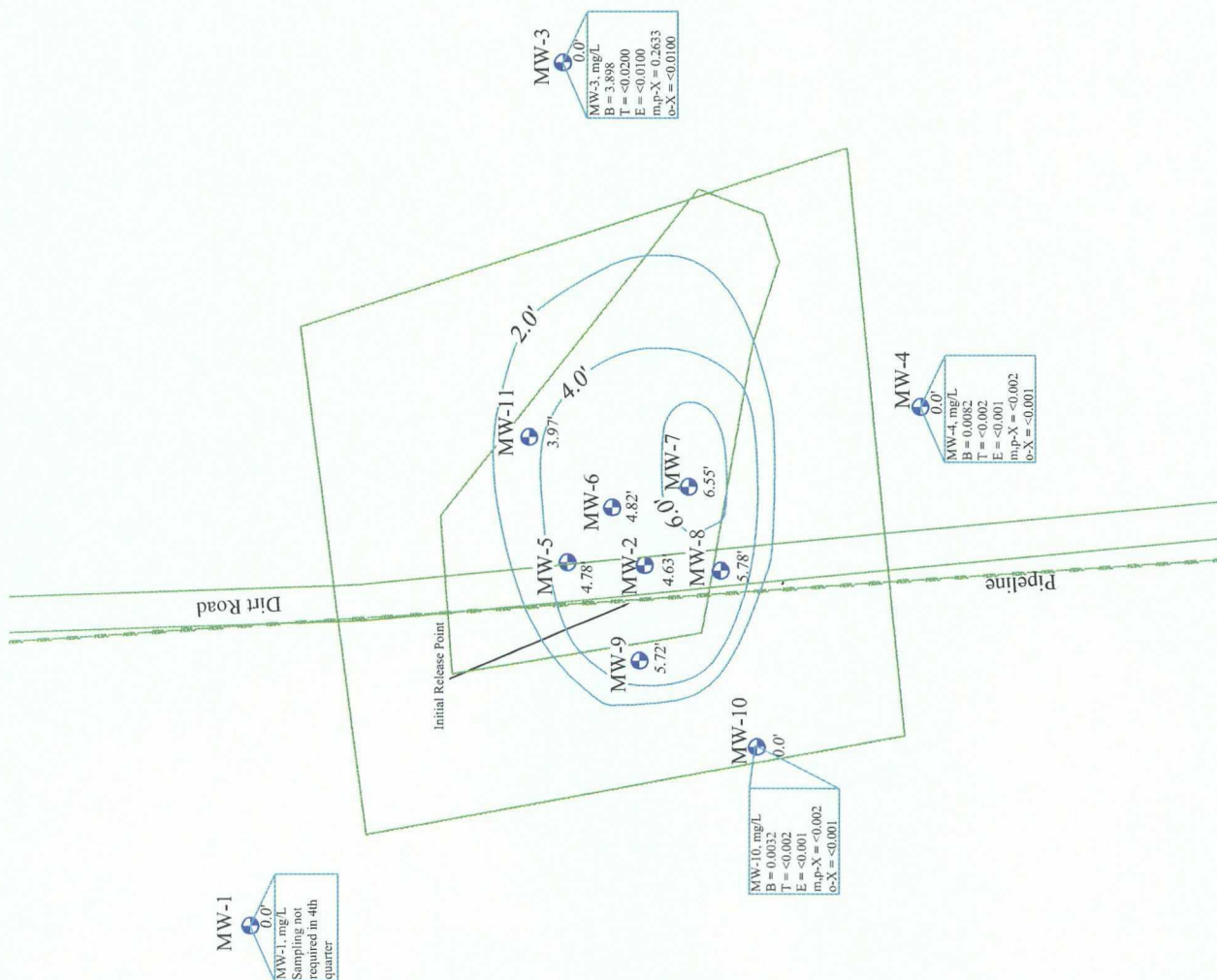
SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/13/2007)



0 50 100
Scale in Feet



Date: 02/26/2008

Scale: 1" = 100'

Drawn By: SJA

Kimbrough Sweet 8" (PLAINS045SPL)

SRS # 2000-10757, NMOCD REF. # AP-0029

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map, (12/03/2007)

APPENDIX B

Tables

Table 1 – Summary of Groundwater Elevations and Phase Separated Thickness

Table 2 – Summary of Groundwater Analytical Results

Table 3 – Summary of Groundwater Polycyclic Aromatic Hydrocarbon (PAH) Analytical Results



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-1	01/24/02	Well Installed 24 January 2002					
	10/04/02	3,723.13		51.26		3,671.87	
	12/11/02			51.43		3,671.70	
	02/20/03			51.62		3,671.51	
	02/11/04			52.45		3,670.68	
	08/16/04			53.15		3,669.98	
	03/22/05			52.70		3,670.43	
	03/31/05			52.65		3,670.48	
	04/22/05			52.69		3,670.44	
	05/12/05			52.73		3,670.40	
	05/25/05			52.73		3,670.40	
	06/28/05			52.81		3,670.32	
	07/25/05			52.91		3,670.22	
	08/22/05			52.98		3,670.15	
	11/14/05			53.18		3,669.95	
	11/30/05			53.47		3,669.66	
	02/06/06			53.67		3,669.46	
	03/01/06			53.21		3,669.92	
	05/02/06			52.34		3,670.79	
	05/25/06			51.45		3,671.68	
	08/10/06			53.45		3,669.68	
	11/29/06			53.60		3,669.53	
	12/06/06			53.63		3,669.50	
	01/10/07			53.71		3,669.42	
	02/08/07			53.58		3,669.55	
	03/01/07			53.91		3,669.22	
	03/06/07			53.62		3,669.51	
	03/14/07			53.85		3,669.28	
	04/02/07			53.67		3,669.46	
	04/09/07			53.89		3,669.24	
	04/16/07			53.92		3,669.21	
	05/01/07			53.93		3,669.20	
	05/21/07			53.99		3,669.14	
	06/13/07			53.90		3,669.23	
	06/26/07			53.92		3,669.21	
	07/18/07			54.02		3,669.11	
	09/13/07			54.13		3,669.00	
	10/24/07			54.19		3,668.94	
	12/03/07			54.32		3,668.81	
MW-2	01/08/02	Well Installed 8 January 2002					
	01/09/02	3,722.90	49.20	53.60	4.40	3,673.26	
	10/04/02		49.21	56.33	7.12	3,672.98	
	11/11/02		49.25	56.30	7.05	3,672.95	
	12/11/02		49.25	56.34	7.09	3,672.94	
	02/20/03		49.57	56.30	6.73	3,672.66	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-2	03/26/03		49.66	58.09	8.43	3,672.40	
	04/08/03		49.68	58.11	8.43	3,672.38	
	04/23/03		50.00	56.90	6.90	3,672.21	
	04/24/03		49.75	58.10	8.35	3,672.32	
	04/25/03		49.78	57.95	8.17	3,672.30	
	05/03/03		49.77	58.10	8.33	3,672.30	
	05/06/03		49.75	58.08	8.33	3,672.32	
	06/09/03		49.83	58.13	8.30	3,672.24	
	06/30/03		49.95	58.04	8.09	3,672.14	
	04/12/04		50.58	58.91	8.33	3,671.49	
	06/04/04		50.85	57.62	6.77	3,671.37	
	06/21/04		50.74	59.01	8.27	3,671.33	
	10/21/04		50.59	58.20	7.61	3,671.55	
	03/22/05		51.02	55.90	4.88	3,671.39	
	03/31/05		51.02	55.90	4.88	3,671.39	
	04/22/05		50.98	56.50	5.52	3,671.37	
	05/25/05		51.23	55.61	4.38	3,671.23	
	07/25/05		51.11	57.74	6.63	3,671.13	
	11/30/05		51.50	58.85	7.35	3,670.67	
	02/06/06		51.64	56.19	4.55	3,670.81	
	03/01/06		51.67	59.20	7.53	3,670.48	
	05/02/06		51.91	58.86	6.95	3,670.30	
	05/25/06		51.19	58.62	7.43	3,670.97	
	08/10/06		51.45	59.00	7.55	3,670.70	
	11/29/06		51.63	59.18	7.55	3,670.52	
	12/06/06		51.67	59.11	7.44	3,670.49	
	01/10/07		51.78	58.03	6.25	3,670.50	
	03/01/07		52.41	60.05	7.64	3,669.73	
	03/06/07		52.92	61.25	8.33	3,669.15	
	03/14/07		52.14	60.43	8.29	3,669.93	
	04/02/07		51.93	59.22	7.29	3,670.24	
	04/09/07		52.95	58.44	5.49	3,669.40	
	04/16/07		51.92	59.09	7.17	3,670.26	6.00
	05/01/07		50.58	60.17	9.59	3,671.36	
	05/21/07		57.42	59.03	1.61	3,665.32	
	06/26/07		52.68	57.24	4.56	3,669.76	
	06/28/07		52.64	56.53	3.89	3,669.87	
	07/18/07		52.55	57.79	5.24	3,669.83	
	08/21/07		52.50	57.65	5.15	3,669.89	
	08/30/07		52.51	57.50	4.99	3,669.89	
	09/13/07		52.40	58.20	5.80	3,669.92	
	10/09/07		53.11	57.17	4.06	3,669.38	
	10/17/07		52.81	56.67	3.86	3,669.70	
	10/24/07		52.76	57.88	5.12	3,669.63	
	11/02/07		53.01	56.52	3.51	3,669.54	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-2	11/12/07		53.02	56.51	3.49	3,669.53	
	12/03/07		52.74	57.37	4.63	3,669.70	
MW-3	01/24/02	Well Installed 24 January 2002					
	10/04/02	3,720.60		49.77		3,670.83	
	12/11/02			49.93		3,670.67	
	02/20/03			50.13		3,670.47	
	02/11/04			50.98		3,669.62	
	08/16/04			51.64		3,668.96	
	03/22/05			51.14		3,669.46	
	03/31/05			51.16		3,669.44	
	04/22/05			51.18		3,669.42	
	05/12/05			51.26		3,669.34	
	05/25/05			51.26		3,669.34	
	06/28/05			51.38		3,669.22	
	07/25/05			51.48		3,669.12	
	08/22/05			51.52		3,669.08	
	11/14/05			51.63		3,668.97	
	11/30/05			51.92		3,668.68	
	02/06/06			52.15		3,668.45	
	03/01/06			51.77		3,668.83	
	05/02/06			53.90		3,666.70	
	05/25/06			53.48		3,667.12	
	08/10/06			51.45		3,669.15	
	11/29/06			51.67		3,668.93	
	12/06/06			51.70		3,668.90	
	01/10/07			51.80		3,668.80	
	02/08/07			52.14		3,668.46	
	03/01/07			52.40		3,668.20	
	03/06/07			51.96		3,668.64	
	03/14/07			52.43		3,668.17	
	04/02/07			52.22		3,668.38	
	04/09/07			52.45		3,668.15	
	04/16/07			52.48		3,668.12	
	05/01/07			52.61		3,667.99	
	05/21/07			52.55		3,668.05	
	06/13/07			52.46		3,668.14	
	06/26/07			52.50		3,668.10	
	07/18/07			52.59		3,668.01	
	09/13/07			52.69		3,667.91	
	10/24/07			52.80		3,667.80	
	12/03/07			52.89		3,667.71	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet bloc*	feet bloc	feet	feet amsl	gallons
MW-4	01/24/02	Well Installed 24 January 2002					
	10/04/02	3,721.03		49.35		3,671.68	
	12/11/02			49.50		3,671.53	
	02/20/03			49.69		3,671.34	
	02/11/04			50.51		3,670.52	
	08/16/04			50.91		3,670.12	
	03/22/05			50.67		3,670.36	
	03/31/05			50.70		3,670.33	
	04/22/05			50.71		3,670.32	
	05/12/05			50.80		3,670.23	
	05/25/05			50.80		3,670.23	
	06/28/05			50.92		3,670.11	
	07/25/05			51.02		3,670.01	
	08/22/05			51.06		3,669.97	
	11/14/05			51.15		3,669.88	
	11/30/05			51.43		3,669.60	
	02/06/06			51.68		3,669.35	
	03/01/06			51.21		3,669.82	
	05/02/06			51.88		3,669.15	
	05/25/06			50.17		3,670.86	
	08/10/06			51.96		3,669.07	
	11/29/06			52.16		3,668.87	
	12/06/06			52.19		3,668.84	
	01/10/07			52.27		3,668.76	
	02/08/07			51.65		3,669.38	
	03/01/07			51.97		3,669.06	
	03/06/07			52.45		3,668.58	
	03/14/07			51.93		3,669.10	
	04/02/07			51.73		3,669.30	
	04/09/07			51.95		3,669.08	
	04/16/07			51.46		3,669.57	
	05/01/07			52.04		3,668.99	
	05/21/07			52.05		3,668.98	
	06/13/07			51.96		3,669.07	
	06/26/07			51.96		3,669.07	
	07/18/07			52.09		3,668.94	
	09/13/07			52.20		3,668.83	
	10/24/07			52.25		3,668.78	
	12/03/07			52.36		3,668.67	
MW-5	07/28/04	Well Installed 28 July 2004					
	08/16/04	3,723.58	51.65	59.86	8.21	3,671.11	
	03/22/05		51.46	59.00	7.54	3,671.37	
	03/31/05		51.46	59.00	7.54	3,671.37	
	04/22/05		52.62	55.95	3.33	3,670.63	
	05/25/05		52.18	56.23	4.05	3,671.00	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCDF REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet ansl*	feet btoc*	feet btoc	feet	feet ansl	gallons
MW-5	07/25/05		52.06	57.97	5.91	3,670.93	
	11/30/05		52.17	60.20	8.03	3,670.61	
	02/06/06		52.44	60.51	8.07	3,670.33	
	03/01/06		52.45	60.53	8.08	3,670.32	
	05/02/06		52.68	59.94	7.26	3,670.17	
	05/25/06		52.30	59.89	7.59	3,670.52	
	08/10/06		52.33	60.28	7.95	3,670.46	
	11/29/06		52.45	60.24	7.79	3,670.35	
	12/06/06		52.44	60.19	7.75	3,670.37	
	01/10/07		52.48	58.87	6.39	3,670.46	
	03/01/07		52.75	60.48	7.73	3,670.06	
	03/06/07		52.70	60.48	7.78	3,670.10	
	03/14/07		51.85	61.25	9.40	3,670.79	
	04/02/07		52.70	60.55	7.85	3,670.10	
	04/09/07		52.74	60.50	7.76	3,670.06	
	04/16/07		52.74	60.55	7.81	3,670.06	7.00
	05/01/07		52.81	60.49	7.68	3,670.00	
	05/21/07		52.85	60.57	7.72	3,669.96	
	06/26/07		53.90	55.68	1.78	3,669.50	
	06/28/07		54.07	54.71	0.64	3,669.45	
	07/18/07		53.80	56.97	3.17	3,669.46	
	08/21/07		54.19	54.47	0.28	3,669.36	
	08/30/07		52.90	60.12	7.22	3,669.96	
	09/13/07		53.11	58.74	5.63	3,669.91	
	10/09/07		54.39	54.79	0.40	3,669.15	
	10/17/07		53.10	60.32	7.22	3,669.76	
	10/24/07		54.10	55.55	1.45	3,669.34	
	11/02/07		54.38	54.71	0.33	3,669.17	
	11/12/07		53.16	60.33	7.17	3,669.70	
	12/03/07		53.65	58.43	4.78	3,669.45	
MW-6	12/08/04	Well installed 8 December 2004					
	12/15/04	3,721.68	49.49	56.62	7.13	3,671.48	
	03/22/05		49.55	56.86	7.31	3,671.40	
	03/31/05		49.55	56.86	7.31	3,671.40	
	04/22/05		50.82	51.66	0.84	3,670.78	
	05/25/05		50.61	53.11	2.50	3,670.82	
	06/28/05		49.83	57.69	7.86	3,671.06	
	07/25/05		50.30	55.50	5.20	3,670.86	
	11/30/05		50.33	58.35	8.02	3,670.55	
	02/06/06		50.65	58.80	8.15	3,670.22	
	03/01/06		50.63	58.64	8.01	3,670.25	
	05/02/06		50.82	58.10	7.28	3,670.13	
	05/25/06		50.21	58.12	7.91	3,670.68	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-6	08/10/06		50.47	59.55	9.08	3,670.30	
	11/29/06		50.63	58.33	7.70	3,670.28	
	12/06/06		50.60	58.33	7.73	3,670.31	
	01/10/07		50.71	57.36	6.65	3,670.31	
	02/08/07		50.71	58.38	7.67	3,670.20	
	02/19/07		58.36	58.87	0.51	3,663.27	
	03/01/07		50.89	58.45	7.56	3,670.03	
	03/06/07		50.86	58.58	7.72	3,670.05	
	03/14/07		52.80	58.51	5.71	3,668.31	
	04/02/07		50.86	58.54	7.68	3,670.05	
	04/09/07		50.87	58.56	7.69	3,670.04	
	04/16/07		50.92	58.54	7.62	3,670.00	6.00
	05/01/07		50.91	58.57	7.66	3,670.00	
	05/21/07		50.96	58.62	7.66	3,669.95	
	06/26/07		52.20	53.25	1.05	3,669.38	
	06/28/07		52.10	53.10	1.00	3,669.48	
	07/18/07		51.89	54.61	2.72	3,669.52	
	08/21/07		52.32	52.56	0.24	3,669.34	
	08/30/07		51.23	57.72	6.49	3,669.80	
	09/13/07		51.88	54.85	2.97	3,669.50	
	10/09/07		52.45	52.65	0.20	3,669.21	
	10/17/07		51.61	58.61	7.00	3,669.37	
	10/24/07		51.24	58.30	7.06	3,669.73	
	11/02/07		52.04	54.86	2.82	3,669.36	
	11/12/07		52.10	54.91	2.81	3,669.30	
	12/03/07		51.78	56.60	4.82	3,669.42	
MW-7	07/28/04	Well Installed 28 July 2004					
	08/16/04	3,722.74	52.14	52.70	0.56	3,670.54	
	10/21/04		51.00	55.23	4.23	3,671.32	
	03/22/05		50.78	57.48	6.70	3,671.29	
	03/31/05		50.78	57.48	6.70	3,671.29	
	04/22/05		51.92	57.31	5.39	3,670.28	
	05/25/05		51.78	53.44	1.66	3,670.79	
	06/28/05		51.53	55.39	3.86	3,670.82	
	07/25/05		52.07	53.35	1.28	3,670.54	
	11/30/05		51.50	58.48	6.98	3,670.54	
	02/06/06		51.75	58.71	6.96	3,670.29	
	03/01/06		52.10	57.31	5.21	3,670.12	
	05/02/06		52.35	56.91	4.56	3,669.93	
	05/25/06		52.79	58.60	5.81	3,669.37	
	08/10/06		51.56	58.61	7.05	3,670.48	
	11/29/06		51.76	58.86	7.10	3,670.27	
	12/06/06		51.78	58.91	7.13	3,670.25	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet ansl*	feet btoc*	feet btoc	feet	feet ansl	gallons
MW-7	01/10/07		51.86	56.96	5.10	3,670.37	
	02/08/07		51.92	58.85	6.93	3,670.13	
	02/19/07		52.35	56.42	4.07	3,669.98	
	03/01/07		52.21	58.13	5.92	3,669.94	
	03/06/07		52.14	58.56	6.42	3,669.96	
	03/14/07		52.07	58.86	6.79	3,669.99	
	04/02/07		52.03	59.06	7.03	3,670.01	
	04/09/07		52.09	59.11	7.02	3,669.95	
	04/16/07		52.08	59.16	7.08	3,669.95	5.00
	05/01/07		52.16	58.82	6.66	3,669.91	
	05/21/07		52.14	59.11	6.97	3,669.90	
	06/26/07		52.20	58.98	6.78	3,669.86	
	06/28/07		52.20	58.73	6.53	3,669.89	
	07/18/07		52.24	58.77	6.53	3,669.85	
	08/21/07		52.30	58.79	6.49	3,669.79	
	08/30/07		52.30	58.83	6.53	3,669.79	
	09/13/07		52.35	58.89	6.54	3,669.74	
	10/09/07		52.37	58.96	6.59	3,669.71	
	10/17/07		52.40	59.02	6.62	3,669.68	
	10/24/07		52.39	58.98	6.59	3,669.69	
	11/02/07		52.47	59.05	6.58	3,669.61	
	11/12/07		52.49	57.99	5.50	3,669.70	
	12/03/07		52.57	59.12	6.55	3,669.52	
MW-8	07/30/04	Well Installed 30 July 2004					
	08/16/04	3,722.85	53.96	54.41	0.45	3,668.85	
	10/21/04		51.15	54.38	3.23	3,671.38	
	03/22/05		50.78	57.15	6.37	3,671.43	
	03/31/05		50.78	57.15	6.37	3,671.43	
	04/22/05		51.90	57.08	5.18	3,670.43	
	05/25/05		51.99	52.15	0.16	3,670.84	
	06/28/05		50.04	57.31	7.27	3,672.08	
	07/25/05		51.82	54.14	2.32	3,670.80	
	11/30/05		51.47	58.47	7.00	3,670.68	
	02/06/06		51.75	57.80	6.05	3,670.50	
	03/01/06		51.91	57.90	5.99	3,670.34	
	05/02/06		52.26	56.95	4.69	3,670.12	
	05/25/06		51.47	57.61	6.14	3,670.77	
	08/10/06		52.28	54.69	2.41	3,670.33	
	11/29/06		51.98	57.22	5.24	3,670.35	
	12/06/06		52.48	55.71	3.23	3,670.05	
	01/10/07		51.84	57.01	5.17	3,670.49	
	02/08/07		52.10	58.61	6.51	3,670.10	
	02/19/07		52.48	56.67	4.19	3,669.95	



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PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-8	03/01/07		52.25	57.13	4.88	3,670.11	
	03/06/07		52.17	57.92	5.75	3,670.11	
	03/14/07		52.06	58.21	6.15	3,670.18	
	04/02/07		52.07	58.42	6.35	3,670.15	
	04/09/07		52.08	58.49	6.41	3,670.13	
	04/16/07		52.11	58.54	6.43	3,670.10	5.00
	05/01/07		52.17	58.40	6.23	3,670.06	
	05/21/07		52.19	58.51	6.32	3,670.03	
	06/26/07		53.10	54.80	1.70	3,669.58	
	06/28/07		53.09	54.52	1.43	3,669.62	
	07/18/07		52.52	57.55	5.03	3,669.83	
	08/21/07		52.96	55.52	2.56	3,669.63	
	08/30/07		53.20	55.17	1.97	3,669.45	
	09/13/07		52.90	55.67	2.77	3,669.67	
	10/09/07		52.41	57.00	4.59	3,669.98	
	10/17/07		52.80	56.87	4.07	3,669.64	
	10/24/07		52.78	57.10	4.32	3,669.64	
	11/02/07		53.52	53.71	0.19	3,669.31	
	12/03/07		52.61	58.39	5.78	3,669.66	
MW-9	07/30/04	Well Installed 30 July 2004					
	08/16/04	3,722.80	53.92	54.65	0.73	3,668.81	
	10/21/04		50.95	53.99	3.04	3,671.55	
	03/22/05		51.04	54.53	3.49	3,671.41	
	03/31/05		51.04	54.53	3.49	3,671.41	
	04/22/05		51.71	51.77	0.06	3,671.08	
	05/25/05		51.70	52.22	0.52	3,671.05	
	06/28/05		50.95	55.84	4.89	3,671.36	
	07/25/05		51.74	52.89	1.15	3,670.95	
	11/30/05		51.24	57.92	6.68	3,670.89	
	02/06/06		51.47	58.25	6.78	3,670.65	
	03/01/06		51.99	56.32	4.33	3,670.38	
	05/02/06		52.12	56.23	4.11	3,670.27	
	05/25/06		51.42	55.99	4.57	3,670.92	
	08/10/06		51.41	58.20	6.79	3,670.71	
	11/29/06		51.56	58.24	6.68	3,670.57	
	12/06/06		51.61	58.30	6.69	3,670.52	
	01/10/07		51.63	57.17	5.54	3,670.62	
	02/08/07		51.72	58.31	6.59	3,670.42	
	02/19/07		52.31	56.42	4.11	3,670.08	
	03/01/07		51.95	57.59	5.64	3,670.29	
	03/06/07		51.89	58.01	6.12	3,670.30	
	03/14/07		51.82	58.24	6.42	3,670.34	
	04/02/07		51.81	58.33	6.52	3,670.34	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCDF REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-9	04/09/07		51.88	58.40	6.52	3,670.27	
	04/16/07		51.88	58.45	6.57	3,670.26	6.00
	05/01/07		51.93	58.09	6.16	3,670.25	
	05/21/07		51.98	58.45	6.47	3,670.17	
	06/26/07		52.04	58.52	6.48	3,670.11	
	06/28/07		52.04	58.50	6.46	3,670.11	
	07/18/07		51.93	58.41	6.48	3,670.22	
	08/21/07		52.03	58.50	6.47	3,670.12	
	08/30/07		53.15	53.45	0.30	3,669.62	
	09/13/07		52.24	57.67	5.43	3,670.02	
	10/09/07		52.15	58.48	6.33	3,670.02	
	10/17/07		53.31	58.52	5.21	3,668.97	
	11/02/07		52.38	57.82	5.44	3,669.88	
	11/12/07		53.39	53.55	0.16	3,669.39	
	12/03/07		52.42	58.14	5.72	3,669.81	
MW-10	12/07/04	Well installed 7 December 2004					
	12/15/04	3,723.62		52.17		3,671.45	
	03/22/05			52.28		3,671.34	
	03/31/05			52.31		3,671.31	
	04/22/05			52.36		3,671.26	
	05/12/05			52.41		3,671.21	
	05/25/05			52.42		3,671.20	
	06/28/05			52.52		3,671.10	
	07/25/05			52.61		3,671.01	
	08/22/05			52.67		3,670.95	
	11/14/05			52.76		3,670.86	
	11/30/05			53.05		3,670.57	
	02/06/06			53.29		3,670.33	
	03/01/06			53.85		3,669.77	
	05/02/06			53.47		3,670.15	
	05/25/06			53.08		3,670.54	
	08/10/06			53.07		3,670.55	
	11/29/06			53.29		3,670.33	
	12/06/06			53.32		3,670.30	
	01/10/07			53.38		3,670.24	
	02/08/07			53.24		3,670.38	
	03/01/07			53.73		3,669.89	
	03/06/07			53.51		3,670.11	
	03/14/07			53.52		3,670.10	
	04/02/07			53.35		3,670.27	
	04/09/07			53.57		3,670.05	
	04/16/07			53.58		3,670.04	
	05/01/07			53.63		3,669.99	



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESS
PLAINS PIPELINE, L.P.
KIMBROUGH SWEET 8"
NMOCD REF. # AP-0029
LEA COUNTY, NM - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

Monitor Well#	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	PSH Thickness	Corrected Relative Groundwater Elevation	PSH Recovered
		feet amsl*	feet btoc*	feet btoc	feet	feet amsl	gallons
MW-10	05/21/07			53.65		3,669.97	
	06/13/07			53.57		3,670.05	
	06/26/07			53.60		3,670.02	
	07/18/07			53.69		3,669.93	
	09/13/07			53.79		3,669.83	
	10/24/07			53.86		3,669.76	
	12/03/07			53.98		3,669.64	
MW-11	12/07/04	Well installed 7 December 2004					
	12/15/04	3,722.03	50.49	55.54	5.05	3,671.04	
	03/22/05		50.33	56.71	6.38	3,671.06	
	03/31/05		50.33	56.71	6.38	3,671.06	
	04/22/05		50.34	56.95	6.61	3,671.03	
	05/25/05		51.34	53.06	1.72	3,670.52	
	06/28/05		50.67	57.07	6.40	3,670.72	
	07/25/05		51.06	55.54	4.48	3,670.52	
	11/30/05		51.11	57.79	6.68	3,670.25	
	02/03/06		51.35	58.06	6.71	3,670.01	
	03/01/06		51.39	58.16	6.77	3,669.96	
	05/02/06		51.54	58.25	6.71	3,669.82	
	05/25/06		51.12	57.97	6.85	3,670.23	
	08/10/06		51.10	57.97	6.87	3,670.24	
	11/29/06		51.32	58.24	6.92	3,670.02	
	12/06/06		52.33	53.48	1.15	3,669.59	
	01/10/07		51.37	57.98	6.61	3,670.00	
	02/08/07		51.47	58.49	7.02	3,669.86	
	02/19/07		51.57	58.38	6.81	3,669.78	
	03/01/07		51.61	58.38	6.77	3,669.74	
	03/06/07		51.57	58.39	6.82	3,669.78	
	03/14/07		51.57	58.34	6.77	3,669.78	
	04/02/07		51.62	58.41	6.79	3,669.73	
	04/09/07		52.63	58.38	5.75	3,668.83	
	04/16/07		51.64	58.38	6.74	3,669.72	
	05/01/07		51.68	58.39	6.71	3,669.68	
	05/21/07		51.90	58.62	6.72	3,669.46	
	06/26/07		51.80	58.44	6.64	3,669.57	
	06/28/07		51.80	58.38	6.58	3,669.57	
	07/18/07		51.76	58.31	6.55	3,669.62	
	10/24/07		51.94	58.26	6.32	3,669.46	
	11/02/07		52.00	58.32	6.32	3,669.40	
	11/12/07		52.01	58.30	6.29	3,669.39	
	12/03/07		52.58	56.55	3.97	3,669.05	

Total manual recovery 35.00
 Approximate system recovery in barrels (bbls) 0.83

* 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.
KIMBROUGH SWEET 8"
NMOCD REF. #AP-0029
LEA COUNTY, NEW MEXICO - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-1	04/02/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/13/07	Sampling not required in second quarter				
	09/13/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/03/07	Sampling not required in fourth quarter				
MW-2	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	04/02/07	0.369	0.00116	0.00904	0.0526	0.0131
	06/13/07	Sampling not required in second quarter				
	09/13/07	18.43	0.2083	1.956	0.9831	0.9471
	12/03/07	3.898	<0.0100	0.2633	<0.0100	<0.0200
MW-4	04/02/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/13/07	Sampling not required in second quarter				
	09/13/07	0.0018	<0.001	<0.002	<0.001	<0.001
	12/03/07	0.0082	<0.001	<0.002	<0.001	<0.002
MW-5	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-9	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-10	04/02/07	<0.001	<0.001	<0.001	<0.001	<0.001
	06/13/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/13/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/03/07	0.0032	<0.001	<0.002	<0.001	<0.002
MW-11	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
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.
KIMBROUGH SWEET 8"
NMOCD REF. #AP-0029
LEA COUNTY, NEW MEXICO - SRS# 2000-10757
Talon/LPE Project Number PLAINS045SPL

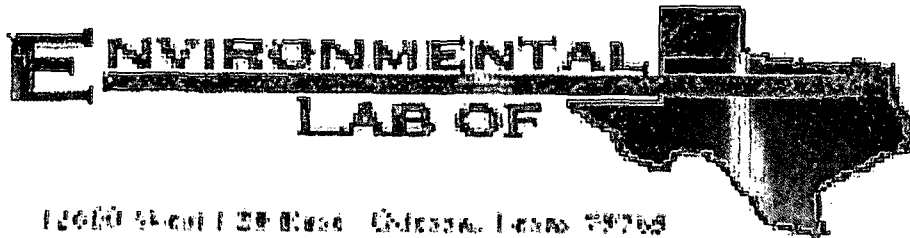
All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	04/02/07	<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-2	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-3	04/02/07	<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-4	04/02/07	<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-5	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-6	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-7	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-8	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-9	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-10	04/02/07	<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-11	04/02/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
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

Bolded values are in excess of the NMWQCC Remediation Thresholds

APPENDIX C

Laboratory Analytical Reports and Chain of Custody Documentation



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: Kimbrough Sweet

Project Number: 2000-10757

Location: None Given

Lab Order Number: 7D03006

Report Date: 04/09/07

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	7D03006-01	Water	04/02/07 12:55	04-03-2007 10:45
MW-3	7D03006-02	Water	04/02/07 13:20	04-03-2007 10:45
MW-4	7D03006-03	Water	04/02/07 13:35	04-03-2007 10:45
MW-10	7D03006-04	Water	04/02/07 14:15	04-03-2007 10:45

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

Project: Kimbrough Sweet
Project Number: 2000-10757
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-1 (7D03006-01) Water									
Benzene	ND	0.00100	mg/L	I	ED70609	04/06/07	04/07/07	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		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
MW-3 (7D03006-02) Water									
Benzene	0.369	0.00100	mg/L	I	ED70609	04/06/07	04/07/07	EPA 8021B	
Toluene	0.0131	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00116	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00904	0.00100	"	"	"	"	"	"	
Xylene (o)	0.0526	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		133 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
MW-4 (7D03006-03) Water									
Benzene	ND	0.00100	mg/L	I	ED70609	04/06/07	04/07/07	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		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-120		"	"	"	"	
MW-10 (7D03006-04) Water									
Benzene	ND	0.00100	mg/L	I	ED70609	04/06/07	04/07/07	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		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.4 %	80-120		"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 5

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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
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Batch ED70609 - EPA 5030C (GC)

Blank (ED70609-BLK1)

Prepared & Analyzed: 04/06/07

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: <i>a,a,a</i> -Trifluorotoluene	56.0		ug/l	50.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	50.0		89.6	80-120			

LCS (ED70609-BS1)

Prepared & Analyzed: 04/06/07

Benzene	0.0526	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0491	0.00100	"	0.0500		98.2	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500		97.6	80-120			
Xylene (p/m)	0.0917	0.00100	"	0.100		91.7	80-120			
Xylene (o)	0.0525	0.00100	"	0.0500		105	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	56.5		ug/l	50.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	48.6		"	50.0		97.2	80-120			

Calibration Check (ED70609-CCV1)

Prepared: 04/06/07 Analyzed: 04/07/07

Benzene	51.9		ug/l	50.0		104	80-120			
Toluene	48.2		"	50.0		96.4	80-120			
Ethylbenzene	48.9		"	50.0		97.8	80-120			
Xylene (p/m)	88.1		"	100		88.1	80-120			
Xylene (o)	51.3		"	50.0		103	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	54.8		"	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	50.0		94.0	80-120			

Matrix Spike (ED70609-MS1)

Source: 7C30008-49

Prepared: 04/06/07 Analyzed: 04/07/07

Benzene	0.0513	0.00100	mg/L	0.0500	ND	103	80-120			
Toluene	0.0482	0.00100	"	0.0500	ND	96.4	80-120			
Ethylbenzene	0.0482	0.00100	"	0.0500	ND	96.4	80-120			
Xylene (p/m)	0.0878	0.00100	"	0.100	ND	87.8	80-120			
Xylene (o)	0.0503	0.00100	"	0.0500	ND	101	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	54.0		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	45.7		"	50.0		91.4	80-120			

Environmental Lab of Texas

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 5

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 ED70609 - EPA 5030C (GC)

Matrix Spike Dup (ED70609-MSD1)

Source: 7C30008-49

Prepared: 04/06/07 Analyzed: 04/07/07

Benzene	0.0507	0.00100	mg/L	0.0500	ND	101	80-120	1.96	20	
Toluene	0.0482	0.00100	"	0.0500	ND	96.4	80-120	0.00	20	
Ethylbenzene	0.0504	0.00100	"	0.0500	ND	101	80-120	4.66	20	
Xylene (p/m)	0.0903	0.00100	"	0.100	ND	90.3	80-120	2.81	20	
Xylene (o)	0.0519	0.00100	"	0.0500	ND	104	80-120	2.93	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	55.1		ug/l	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	48.4		"	50.0		96.8	80-120			

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Page 4 of 5

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

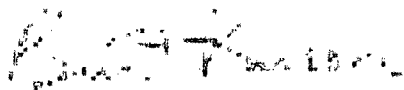
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

4/9/2007

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

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 5 of 5

Analytical Report 280100

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Kimbrough Sweet

2000-10757

09-APR-07



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



09-APR-07

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

Reference: XENCO Report No: **280100**
Kimbrough Sweet
Project Address:

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 280100. 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. 280100 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

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Certificate of Analysis Summary 280100

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: Kimbrough Sweet

Project Id: 2000-10757

Date Received in Lab: Apr-03-07 10:45 am

Contact: Camille Reynolds

Report Date: 09-APR-07

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	280100-001	280100-002	280100-003	280100-004
	Field Id:	MW-1	MW-3	MW-4	MW-10
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Apr-02-07 12:55	Apr-02-07 13:20	Apr-02-07 13:55	Apr-02-07 14:15
SVOA PAHs List by EPA 8270C	Extracted:	Apr-04-07 17:25	Apr-04-07 17:28	Apr-04-07 17:31	Apr-04-07 17:34
	Analyzed:	Apr-06-07 11:52	Apr-06-07 13:16	Apr-06-07 13:59	Apr-06-07 14:40
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		ND 0.005	ND 0.005	ND 0.005	ND 0.005
Acenaphthylene		ND 0.005	ND 0.005	ND 0.005	ND 0.005
Anthracene		ND 0.005	ND 0.005	ND 0.005	ND 0.005
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-c,d)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

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

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Brent Barron
Odessa Laboratory Director

- 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.

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
3016 U.S. HWY 301 North - Suite 900, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Kimbrough Sweet



Work Order #: 280100

Project ID: 2000-10757

Lab Batch #: 694591

Sample: 280100-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.034	0.050	68	43-116	
2-Fluorophenol	0.022	0.050	44	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.039	0.050	78	33-141	
2,4,6-Tribromophenol	0.036	0.050	72	10-123	

Lab Batch #: 694591

Sample: 280100-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.023	0.050	46	21-100	
Nitrobenzene-d5	0.035	0.050	70	35-114	
Phenol-d6	0.013	0.050	26	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 694591

Sample: 280100-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.022	0.050	44	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.033	0.050	66	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	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.

Work Order #: 280100

Project ID: 2000-10757

Lab Batch #: 694591

Sample: 280100-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	0.014	0.050	28	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 694591

Sample: 493858-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.040	0.050	80	43-116	
2-Fluorophenol	0.033	0.050	66	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.045	0.050	90	10-123	

Lab Batch #: 694591

Sample: 493858-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	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: Kimbrough Sweet



Work Order #: 280100

Project ID: 2000-10757

Lab Batch #: 694591

Sample: 493858-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.050	84	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.046	0.050	92	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.

Project Name: Kimbrough Sweet

Work Order #: 280100

Project ID: 2000-10757

Analyst: TTD

Date Analyzed: 04/05/2007

Lab Batch ID: 694591

Date Prepared: 04/04/2007

Sample: 493858-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
SVOA PAHs List by EPA 8270C 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	0.043	86	2	27-132	31
	Acenaphthylene	ND	0.050	0.043	86	0.05	0.043	86	0	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	0.042	84	0.05	0.045	90	7	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	0.042	84	0.05	0.045	90	7	24-159	25
	Benzo(k)fluoranthene	ND	0.050	0.044	88	0.05	0.044	88	0	25-125	25
	Benzo(g,h,i)perylene	ND	0.050	0.041	82	0.05	0.043	86	5	65-135	25
	Chrysene	ND	0.050	0.042	84	0.05	0.044	88	5	65-135	25
	Dibenz(a,h)Anthracene	ND	0.050	0.041	82	0.05	0.042	84	2	50-125	25
	Fluoranthene	ND	0.050	0.046	92	0.05	0.046	92	0	47-125	25
	Fluorene	ND	0.050	0.043	86	0.05	0.044	88	2	48-139	25
	Indeno(1,2,3-c,d)Pyrene	ND	0.050	0.040	80	0.05	0.042	84	5	27-160	25
	Naphthalene	ND	0.050	0.041	82	0.05	0.042	84	2	26-175	25
Phenanthrene	ND	0.050	0.044	88	0.05	0.044	88	0	65-135	25	
Pyrene	ND	0.050	0.042	84	0.05	0.045	90	7	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

11600 West 1130 East
Odessa, Texas 79765

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

Project Manager: S. Smith

Company Name: Talco LPE

Company Address: #9 E. Industrial Rd.

City/State/Zip: Midland TX 79701

Telephone No.: 432-522-2133

Sampler Signature: [Signature]

Fax No.: 432-522-280

e-mail: ssmith@talco-lpe.com

Project Name: PLAINS 04SSPL

Project ID: 2000-10757

Project Loc: _____

PG #:

Report Format: ☒ Standard ☐ TRAP ☐ MPDES

(Lab use only)

ORDER #: 7003006

28000

LAB # (Lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Master		Analysis For																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
							Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ SO ₄	None	Other (Specify)	Dw. Drinking Water, St. Storage	Over. Groundwater (S. Sealed)	Surface/Package - Special Order	CO ₂	TOC	Volatiles	Semivolatiles	TEA 80210 8030 or DTEX 8260	NO ₃ -M	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
01	MW-1			04/02/07	1255	2	X			X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

Special Instructions:

Retrieved by: <u>[Signature]</u>	Date: <u>4-25-06</u>	Time: <u>1045</u>	Received by: <u>[Signature]</u>	Date: <u>4-25-07</u>	Time: <u>1245</u>
Retrieved by: <u>[Signature]</u>	Date: <u>4-25-06</u>	Time: <u>1045</u>	Received by: <u>[Signature]</u>	Date: <u>4-25-07</u>	Time: <u>1245</u>
Retrieved by: <u>[Signature]</u>	Date: <u>4-25-06</u>	Time: <u>1045</u>	Received by: <u>[Signature]</u>	Date: <u>4-25-07</u>	Time: <u>1245</u>

Laboratory Comments:

Sample Containers marked?
VOCs Free of headspace?
Custody seals on containers?
Custody seals on containers?
Sample Name Documented?
by Sampler/Chain of Custody?
by Counter? UPS Del. Fedex Home Mail

Temperature Upon Receipt: 15 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: 1alon LPE
Date/ Time: 4/3/07 10:45
Lab ID #: 7D03006
Labels: 9L

Sample Receipt Checklist

Client Initials

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

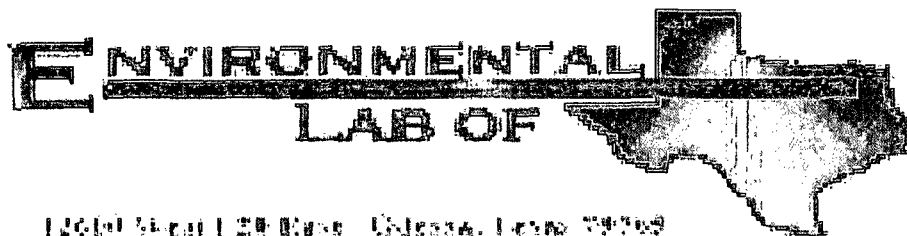
Variance Documentation

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

Regarding: #4 seals on vials, not on 1L canister

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



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: Kimbrough Sweet

Project Number: 2000-10757

Location: Lea County

Lab Order Number: 7F15002

Report Date: 06/22/07

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	7F15002-01	Water	06/13/07 16:10	06-14-2007 16:15

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

Project: Kimbrough Sweet
Project Number: 2000-10757
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-10 (7F15002-01) Water									
Benzene	ND	0.00100	mg/L	1	EF71907	06/19/07	06/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		109 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 5

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EF71907 - EPA 5030C (GC)

Blank (EF71907-BLK1)

Prepared: 06/19/07 Analyzed: 06/20/07

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: <i>a,a,a</i> -Trifluorotoluene	51.5		ug/l	50.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	45.5		"	50.0		91.0	80-120			

LCS (EF71907-BS1)

Prepared: 06/19/07 Analyzed: 06/20/07

Benzene	0.0487	0.00100	mg/L	0.0500		97.4	80-120			
Toluene	0.0489	0.00100	"	0.0500		97.8	80-120			
Ethylbenzene	0.0531	0.00100	"	0.0500		106	80-120			
Xylene (p/m)	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (o)	0.0515	0.00100	"	0.0500		103	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	50.7		ug/l	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	48.4		"	50.0		96.8	80-120			

Calibration Check (EF71907-CCV1)

Prepared: 06/19/07 Analyzed: 06/20/07

Benzene	0.0450		mg/L	0.0500		90.0	80-120			
Toluene	0.0451		"	0.0500		90.2	80-120			
Ethylbenzene	0.0449		"	0.0500		89.8	80-120			
Xylene (p/m)	0.0817		"	0.100		81.7	80-120			
Xylene (o)	0.0460		"	0.0500		92.0	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	51.4		ug/l	50.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	49.3		"	50.0		98.6	80-120			

Matrix Spike (EF71907-MS1)

Source: 7F14024-01

Prepared: 06/19/07 Analyzed: 06/20/07

Benzene	0.0495	0.00100	mg/L	0.0500	0.00614	86.7	80-120			
Toluene	0.0491	0.00100	"	0.0500	0.00436	89.5	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.0846	0.00100	"	0.100	0.000642	84.0	80-120			
Xylene (o)	0.0475	0.00100	"	0.0500	ND	95.0	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	52.5		ug/l	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	48.2		"	50.0		96.4	80-120			

Environmental Lab of Texas

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EF71907 - EPA 5030C (GC)

Matrix Spike Dup (EF71907-MSD1)

Source: 7F14024-01

Prepared: 06/19/07 Analyzed: 06/20/07

Benzene	0.0445	0.00100	mg/L	0.0500	0.00614	76.7	80-120	12.2	20	M8
Toluene	0.0454	0.00100	"	0.0500	0.00436	82.1	80-120	8.62	20	
Ethylbenzene	0.0445	0.00100	"	0.0500	ND	89.0	80-120	9.22	20	
Xylene (p/m)	0.0774	0.00100	"	0.100	0.000642	76.8	80-120	8.96	20	M8
Xylene (o)	0.0431	0.00100	"	0.0500	ND	86.2	80-120	9.71	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	54.6		ug/l	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	49.2		"	50.0		98.4	80-120			

Environmental Lab of Texas

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Page 4 of 5

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

Project: Kimbrough Sweet
Project Number: 2000-10757
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above 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: 6/22/2007

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

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Environmental Lab of Texas

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Page 5 of 5

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Talon
 Date/ Time: 6/14/07 4:15
 Lab ID #: 7F15002
 Initials: AL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>1.0</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	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 289601

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Kimbrough Sweet 8"

2002-10757

19-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**



19-SEP-07

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

Reference: XENCO Report No: **289601**
Kimbrough Sweet 8"
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 289601. 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. 289601 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,

A handwritten signature in black ink, appearing to read "Brent Barron", written over a horizontal line.

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 289601



PLAINS ALL AMERICAN EH&S, Midland, TX
Kimbrough Sweet 8"

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Sep-13-07 13:15		289601-001
MW-3	W	Sep-13-07 13:00		289601-002
MW-4	W	Sep-13-07 13:06		289601-003
MW-10	W	Sep-13-07 13:09		289601-004



Certificate of Analysis Summary 289601
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Kimbrough Sweet 8"

Project Id: 2002-10757

Contact: Camille Reynolds

Project Location: Lea County, NM

Date Received in Lab: Fri Sep-14-07 09:04 am

Report Date: 19-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289601-001	289601-002	289601-003	289601-004
	Field Id:	MW-1	MW-3	MW-4	MW-10
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Sep-13-07 13:15	Sep-13-07 13:00	Sep-13-07 13:06	Sep-13-07 13:09
BTEX by EPA 8021B	Extracted:	Sep-17-07 15:52	Sep-17-07 15:52	Sep-17-07 15:52	Sep-17-07 15:52
	Analyzed:	Sep-17-07 18:46	Sep-17-07 19:07	Sep-17-07 19:27	Sep-17-07 19:48
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Benzene	ND 0.0010	18.43 0.0100	0.0018 0.0010	ND 0.0010
	Toluene	ND 0.0010	0.9471 0.0100	ND 0.0010	ND 0.0010
	Ethylbenzene	ND 0.0010	0.2083 0.0100	ND 0.0010	ND 0.0010
	m,p-Xylene	ND 0.0020	1.956 0.0200	ND 0.0020	ND 0.0020
	o-Xylene	ND 0.0010	0.9831 0.0100	ND 0.0010	ND 0.0010
	Total Xylenes	ND	2.9391	ND	ND
	Total BTEX	ND	22.5245	0.0018	ND

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

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

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Kimbrough Sweet 8"

Work Order #: 289601

Project ID: 2002-10757

Lab Batch #: 704542

Sample: 289578-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0379	0.0500	76	80-120	*

Lab Batch #: 704542

Sample: 289578-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0414	0.0500	83	80-120	

Lab Batch #: 704542

Sample: 289601-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0826	0.1000	83	80-120	

Lab Batch #: 704542

Sample: 289601-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.4683	0.5000	94	80-120	

Lab Batch #: 704542

Sample: 289601-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0367	0.0500	73	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: Kimbrough Sweet 8"

Work Order #: 289601

Project ID: 2002-10757

Lab Batch #: 704542

Sample: 289601-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0353	0.0500	71	80-120	**

Lab Batch #: 704542

Sample: 499368-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0424	0.0500	85	80-120	

Lab Batch #: 704542

Sample: 499368-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0406	0.0500	81	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: Kimbrough Sweet 8''

Work Order #: 289601

Project ID:

2002-10757

Lab Batch #: 704542

Sample: 499368-1-BKS

Matrix: Water

Date Analyzed: 09/17/2007

Date Prepared: 09/17/2007

Analyst: SHE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Benzene	ND	0.0500	0.0379	76	70-125	
Toluene	ND	0.0500	0.0419	84	70-125	
Ethylbenzene	ND	0.0500	0.0451	90	71-129	
m,p-Xylene	ND	0.1000	0.0850	85	70-131	
o-Xylene	ND	0.0500	0.0432	86	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: Kimbrough Sweet 8"

Work Order # 289601

Lab Batch ID: 704542

Date Analyzed: 09/18/2007

Reporting Units: mg/L

Project ID: 2002-10757

QC- Sample ID: 289578-001 S

Date Prepared: 09/17/2007

Batch #: 1 Matrix: Water

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.0500	0.0365	73	0.0500	0.0381	76	4	70-125	25
	Toluene	ND	0.0500	0.0403	81	0.0500	0.0426	85	5	70-125	25
	Ethylbenzene	ND	0.0500	0.0433	87	0.0500	0.0464	93	7	71-129	25
	m,p-Xylene	ND	0.1000	0.0805	81	0.1000	0.0867	87	7	70-131	25
	o-Xylene	ND	0.0500	0.0414	83	0.0500	0.0445	89	7	71-133	25

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

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

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

Environmental Lab or Texas

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager:

Company Name

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Shanna Smith

Talon LRP

2901 Rankin Hwy

Midland, TX 79706

432-522-2133

Carl Vessels, Jenilee Kinkadee email: 55mi.R@talorlpc.com

Project Name:

Project #:

Project Loc:

PO #:

Report Format:

MPDES

TPRP

Simulati

Report Format:

MPDES

TPRP

Simulati

Report Format:

MPDES

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Report Format:

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Talon Plains
 Date/ Time: 7/14/07 9:04
 Lab ID #: 287601
 Initials: GL

Sample Receipt Checklist

			Client Initials
#1	Temperature of container/ cooler?	☒ Yes ☐ No	4.5 °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 293900

for

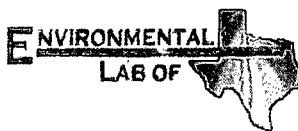
PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Kimbrough Sweet 16"

SRS# 2000-10757

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: **293900**
Kimbrough Sweet 16"
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 293900. 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. 293900 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 293900



PLAINS ALL AMERICAN EH&S, Midland, TX

Kimbrough Sweet 16"

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-3	W	Dec-03-07 13:53		293900-001
MW-4	W	Dec-03-07 14:00		293900-002
MW-10	W	Dec-03-07 14:05		293900-003



Certificate of Analysis Summary 293900
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: SRS# 2000-10757
Contact: Camille Reynolds
Project Location: Hobbs, NM

Project Name: Kimbrough Sweet 16"

Date Received in Lab: Tue Dec-04-07 08:40 am
Report Date: 12-DEC-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293900-001	293900-002	293900-003	
	Field Id:	MW-3	MW-4	MW-10	
	Depth:				
	Matrix:	WATER	WATER	WATER	
	Sampled:	Dec-03-07 13:53	Dec-03-07 14:00	Dec-03-07 14:05	
BTEX by EPA 8021B	Extracted:	Dec-11-07 11:10	Dec-06-07 12:45	Dec-06-07 12:45	
	Analyzed:	Dec-11-07 13:30	Dec-06-07 21:13	Dec-06-07 21:29	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
	Benzene	3.898 0.0100	0.0082 0.0010	0.0032 0.0010	
	Toluene	ND 0.0200	ND 0.0020	ND 0.0020	
Ethylbenzene m,p-Xylenes o-Xylene		ND 0.0100	ND 0.0010	ND 0.0010	
		0.2633 0.0200	ND 0.0020	ND 0.0020	
		ND 0.0100	ND 0.0010	ND 0.0010	
Xylenes, Total		0.2633	ND	ND	
Total BTEX		4.1613	0.0082	0.0032	

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

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

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Kimbrough Sweet 16"



Work Order #: 293900

Project ID: SRS# 2000-10757

Lab Batch #: 710056

Sample: 293896-054 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 710056

Sample: 293896-054 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 710056

Sample: 293900-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 710056

Sample: 293900-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 710056

Sample: 502290-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	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.



Form 2 - Surrogate Recoveries



Project Name: Kimbrough Sweet 16"

Work Order #: 293900

Project ID: SRS# 2000-10757

Lab Batch #: 710056

Sample: 502290-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 710056

Sample: 502290-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 710227

Sample: 293900-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 710227

Sample: 294072-005 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	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.



Form 2 - Surrogate Recoveries

Project Name: Kimbrough Sweet 16"



Work Order #: 293900

Project ID: SRS# 2000-10757

Lab Batch #: 710227

Sample: 502382-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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

SURROGATE RECOVERY STUDY

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



BS / BSD Recoveries



Project Name: Kimbrough Sweet 16"

Work Order #: 293900

Project ID: SRS# 2000-10757

Analyst: SHE

Date Prepared: 12/06/2007

Date Analyzed: 12/06/2007

Lab Batch ID: 710056

Sample: 502290-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	BTEX by EPA 8021B										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	BLK. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1000	0.0870	87	0.1	0.0889	89	2	70-125	25
	Toluene	ND	0.1000	0.0872	87	0.1	0.0892	89	2	70-125	25
	Ethylbenzene	ND	0.1000	0.0907	91	0.1	0.0924	92	2	71-129	25
	m,p-Xylenes	ND	0.2000	0.1781	89	0.2	0.1813	91	2	70-131	25
o-Xylene	ND	0.1000	0.0895	90	0.1	0.0918	92	3	71-133	25	

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

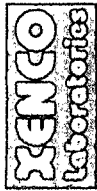
BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY														
Units: mg/L	BTEX by EPA 8021B	Analytes	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
			[A]	[B]	[C]	[D]	[E]	[F]	[G]					
		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		

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: Kimbrough Sweet 16"



Work Order #: 293900

Lab Batch ID: 710056

Date Analyzed: 12/06/2007

Reporting Units: mg/L

Project ID: SRS# 2000-10757

QC-Sample ID: 293896-054 S

Date Prepared: 12/06/2007

Batch #: 1 Matrix: Water

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	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	
Benzene	0.0054	0.1000	0.0859	81	0.1000	0.0860	81	0	70-125	25	
Toluene	ND	0.1000	0.0858	86	0.1000	0.0863	86	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0892	89	0.1000	0.0900	90	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1740	87	0.2000	0.1758	88	1	70-131	25	
o-Xylene	ND	0.1000	0.0901	90	0.1000	0.0910	91	1	71-133	25	

Lab Batch ID: 710227

Date Analyzed: 12/11/2007

Reporting Units: mg/L

QC-Sample ID: 294072-005 S

Date Prepared: 12/11/2007

Batch #: 1 Matrix: Water

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	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	
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

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

Applicable N = See Narrative, EQL = Estimated Quantitation Limit

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



- ☐ 11381 Meadowcreek, Suite L, Houston, TX 77042 281-569-0632
☐ 5509 Windloch, Suite 104, San Antonio, TX 78238 210-595-3334
☐ 11078 Montview Lane, Suite D, Dallas, TX 75259 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

LAB ONLY:

- ☐ 5757 H.W. 158th Street, Miami Lakes, FL 33014 305-423-0500
☐ 2518 Summit Falmouth Rd, Roseville, FL 33550 813-620-2000

Serial #: 179635 Page 1 of 1

Company City: Houston, TX Phone: (713) 522-2133

Project Name: Kimbrough, Sweet 6" Site: Hobbs, NM

Prof. Manager: Shanna Smith

Fac. Results to: 55mi. K. @ kimbrough.com

Invoice to: PLAINS Canville Reynolds SRS #200-10857

Bill to: PLAINS Canville Reynolds SRS #200-10857

Quote No: P.O. No: ☐ Call for a P.O.

Reg. Program: CLP AFCEE TRRP DW UST State Other:

Target DLS: DW CRDL TRRP OAPP MDLS See Lab PM Attached Call

TRRP PCL: Tier 1 Tier 2 Residential Industrial

LPST No.: (Required) Signature: Paul Vessale

Sample Name: Paul Vessale

Sample ID: 19990

Sampling Date: 12/13/07

Time: 1353

Depth: 1440

Matrix: 1445

Container Type: W X 2 V C WCL

Container Size: W X 2 V C WCL

Grab: W X 2 V C WCL

Composite: W X 2 V C WCL

Preservatives: W X 2 V C WCL

Analysis by: 8021 8260 802 824 Other

UTEX-MTBE by 8021 8260 802 824 Other

TPH by TX1005 FL-100 164 2015GR 2015DR 4181

Metals by 8020 200 8 840RA for PTP TCLPE 13PP 237AL

VOCs by 8021 8260 824 VOA VCH PPS TCL

SVOCs by 8270 825 PAHS BHS A TCL PPS

FL Petroleum - Revised: Virgin Non-Virgin

Field Disposal: Field Analysis (Surcharges will apply)

Adm. P&H: 8000 mg/L W. 70 10d 21d

Remarks: Sample Clean-ups are pre-approved

Project ID: PLAINSONS-SPL

Lab: 171407 SRS

Containers Received: Containers

Correl. Temperature: Correl. Temperature

Push Charges are Pre-Approved upon requesting them

Date & Time: 12/14/07 08:46

Relinquished by: (Initials and Sign) Relinquished to: (Initials and Sign)

Preservatives: Various (V), HCl pH-2 (H), H2SO4 pH-2 (S), HNO3 pH-2 (M), Asbic Acid/NaOH (A), Zinc/NaOH (Z), Cool. <10 (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tealtr Bld (B), Vial (W), Other

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

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2.5

10/10/07 & 10/10/07

ANALYSIS REQUEST & ORDER FORM

☐ 11381 Meadows Ln, Suite L, Houston TX 77055 281-588-0652
☐ 5306 Wurzbach, Suite 104, San Antonio, TX 78239 210-508-3314
☐ 11078 Montclair Lane, Suite D, Dallas, TX 75225 972-461-9999

Serial #: 19-035 **Page:** 1 of 1

Company-City _____ **Phone** _____ **Project ID** _____

Project Name _____ **Site** _____

Proj. Manager (PM) _____ **Site** _____

Lab: _____

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbic Acid/NaOH (A), 2N/NaOH (Z), (Cool <4°C) (C), none (NA), See Later (L), Other (O)
 Cont. Size: 4oz (4), 8oz (8), 16oz (16), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Waive (W), Other _____

Matrix: _____

Grab _____ **Composite** _____

Depth _____ **Time** _____

Sample ID _____ **Sampling Date** _____

Signature _____

Reg. Program: CLP, AECOE, TRRP, DW, UST, State, Other _____

Target DUs: (DW, CROL, TRRP, CAPP, MDLS, See Lab PM, Attached, Call) _____

TRRP PCLs: Tier 1, Tier 2, Residential, Industrial _____

LPST No. (Required) _____

Sampler Name _____

Quote No.: _____ **P.O. No.:** _____ ☐ Call for a P.O.

Reg. Results to: ☐ PM or _____ **Fax No.:** _____

e-mail to: _____ **Invoice to:** ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to: _____ **Quote No.:** _____ **P.O. No.:** _____ ☐ Call for a P.O.

Reg. Program: CLP, AECOE, TRRP, DW, UST, State, Other _____

Target DUs: (DW, CROL, TRRP, CAPP, MDLS, See Lab PM, Attached, Call) _____

TRRP PCLs: Tier 1, Tier 2, Residential, Industrial _____

LPST No. (Required) _____

Sampler Name _____

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Target DUs: (DW, CROL, TRRP, CAPP, MDLS, See Lab PM, Attached, Call) _____

TRRP PCLs: Tier 1, Tier 2, Residential, Industrial _____

LPST No. (Required) _____

Sampler Name _____



Company-City _____ **Phone** _____ **Project ID** _____

Project Name _____ **Site** _____

Proj. Manager (PM) _____ **Site** _____

Lab: _____

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbic Acid/NaOH (A), 2N/NaOH (Z), (Cool <4°C) (C), none (NA), See Later (L), Other (O)
 Cont. Size: 4oz (4), 8oz (8), 16oz (16), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Waive (W), Other _____

Matrix: _____

Grab _____ **Composite** _____

Depth _____ **Time** _____

Sample ID _____ **Sampling Date** _____

Signature _____

Reg. Program: CLP, AECOE, TRRP, DW, UST, State, Other _____

Target DUs: (DW, CROL, TRRP, CAPP, MDLS, See Lab PM, Attached, Call) _____

TRRP PCLs: Tier 1, Tier 2, Residential, Industrial _____

LPST No. (Required) _____

Sampler Name _____

Quote No.: _____ **P.O. No.:** _____ ☐ Call for a P.O.

Reg. Results to: ☐ PM or _____ **Fax No.:** _____

e-mail to: _____ **Invoice to:** ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to: _____ **Quote No.:** _____ **P.O. No.:** _____ ☐ Call for a P.O.

Reg. Program: CLP, AECOE, TRRP, DW, UST, State, Other _____

Target DUs: (DW, CROL, TRRP, CAPP, MDLS, See Lab PM, Attached, Call) _____

TRRP PCLs: Tier 1, Tier 2, Residential, Industrial _____

LPST No. (Required) _____

Sampler Name _____

Quote No.: _____ **P.O. No.:** _____ ☐ Call for a P.O.

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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Harris
Date/ Time: 12/4/07 8:40
Lab ID #: 292906
Initials: IK

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	<u>Yes</u>	* C
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	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: Plains Pipeline, L.P.	Contact: Camille Reynolds	
Address P.O. Box 3119 Midland, Texas 79702	Telephone No. 505.396.3341 (CJReynolds@paalp.com)	
Facility Name Kimbrough Sweet #2000-10757	Facility Type 8" Steel Pipeline	
Surface Owner: State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter G	Section 3	Township T18S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
------------------	--------------	------------------	---------------	------------------	---------------------	------------------	-------------------	----------------

Latitude: 32°46'48"N Longitude: 103°14'18"W

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 60 bbls barrels	Volume Recovered 22 bbls barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 10/25/2000	Date and Hour of Discovery 10/25/2000
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Donna Williams	
By Whom? Wayne Brunette	Date and Hour 10-25-00@5:15PM	
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.* 8" Steel Pipeline: The release was caused by internal corrosion. Approximately 60 barrels of crude oil was released and approximately 22 barrels recovered and reintroduced to the system. The leak was excavated and repaired and the line placed back in service.		
Describe Area Affected and Cleanup Action Taken.* 15,613 sqft 200' x 200': In 2001, the NMOCD approved a Soil and Groundwater Abatement Plan. Impacted soil down to 15'bgs was excavated, shredded, and treated. A 2-foot thick compacted clay barrier was installed in the bottom of the excavation and the treated soil used to bring to grade. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature:	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@paalp.com	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: Phone: 505.396.3341		

* Attach Additional Sheets If Necessary


PLAINS
PIPELINE
**Site Information
and Metrics**
Incident Date:
 10/25/2000

NMOCD Notified:
 10-25-00@5:15PM

SITE: Kimbrough Sweet		Assigned Site Reference #: 2000-10757	
Company: Plains Pipeline, L.P.			
Street Address: P.O. Box 3119			
Mailing Address:			
City, State, Zip: Midland, Texas 79702			
Representative: Camille Reynolds			
Representative Telephone: 505.396.3341 (CJReynolds@paalp.com)			
Telephone:			
Fluid volume released (bbls): 60 bbls		Recovered (bbls): 22 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
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: Kimbrough Sweet			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico			
LSP Dimensions 200' x 200'			
LSP Area: 15,613 ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°46'48"N			
Longitude: 103°14'18"W			
Elevation above mean sea level: 3,720'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: SW¼ of the NE¼		Unit Letter: G	
Location- Section: 3			
Location- Township: T18S			
Location- Range: R37E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to ground water (DG) 50'bgs			
Depth of contamination (DC) - 50'bgs			
Depth to ground water (DG - DC = DtGW) - zero feet			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 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	
Ground water Score = 20		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 20		Surface Water Score = 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
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			