

**1R - 0838**

**REPORTS**

**DATE:**

**2006**



**PLAINS  
ALL AMERICAN**

IRP-838

Report

2006

13 February 2007

Mr. Ben Stone  
New Mexico Energy, Minerals and Natural Resources  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, New Mexico 87505

2007 FEB 20 PM 12 25

Re: Plains All American – Annual Monitoring Report  
1 Site in Lea County, New Mexico

Dear Mr. Stone:

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 report for the following site:

Lovington Gathering WTI Section 6, Township 17 South, Range 37 East, Lea County

Basin prepared this document and has vouched for it's accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the document and interviewed Basin in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Report for the above facility.

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 District I

Enclosures

# *Basin Environmental Service Technologies, LLC*

2800 Plains Highway  
P. O. Box 301  
Lovington, New Mexico 88260  
kdutton@basinenv.com  
Office: (505) 396-2378

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## 2006 ANNUAL MONITORING REPORT

**LOVINGTON GATHERING WTI**  
**SE ¼ NE ¼ SECTION 6, TOWNSHIP 17 SOUTH, RANGE 37 EAST**  
**LATITUDE 32°, 51', 56.0" NORTH, LONGITUDE 103°, 17', 07.2" WEST**  
**LEA COUNTY, NEW MEXICO**  
**PLAINS SRS NUMBER: 2006-0142**  
**NMOCD REF: 1RP-838**

PREPARED FOR:

**PLAINS MARKETING, L.P.**  
333 CLAY STEET, SUITE 1600  
HOUSTON, TEXAS 77002

PREPARED BY:

**BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES, LLC**  
2800 Plains Highway  
P. O. Box 301  
Lovington, New Mexico 88260

February 2007

  
\_\_\_\_\_  
Ken Dutton  
Project Manager

## TABLE OF CONTENTS

INTRODUCTION.....	1
SITE DESCRIPTION AND BACKGROUND INFORMATION.....	1
FIELD ACTIVITIES.....	2
LABORATORY RESULTS.....	2
SUMMARY.....	3
ANTICIPATED ACTIONS.....	3
LIMITATIONS.....	4
DISTRIBUTION.....	5

### FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – 05 October 2006

Figure 2B – Inferred Groundwater Gradient Map – 28 December 2006

Figure 3A – Groundwater Concentration Map – 05 October 2006

Figure 3B – Groundwater Concentration Map – 28 December 2006

### TABLES

Table 1 – Groundwater Elevation Data

Table 2 – Concentrations of Benzene and BTEX in Groundwater

### APPENDICES

Appendix A – Laboratory Reports

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

## **INTRODUCTION**

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P., (Plains), prepared this annual report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2006 only. Additional site activities and remedial work is summarized in several letters and reports previously submitted to the NMOCD. For reference, the Site Location Map is provided as Figure 1.

Initial groundwater monitoring was conducted during the fourth quarter of 2006 at the request of NMOCD to assess the potential for impact to the groundwater from dissolved phase constituents. The groundwater monitoring event consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separated hydrocarbons (PSH) atop the water column, and purging and sampling of each well exhibiting sufficient recharge.

## **SITE DESCRIPTION AND BACKGROUND INFORMATION**

The legal description of the site is SE¼ NE¼ Section 6, Township 17 South, Range 37 East. The site latitude is 32° 51' 56.0" North and the site longitude is 103° 17' 07.2" West. On 21 April 2006, Basin responded to the pipeline release on behalf of Plains to repair the pipeline and excavate the impacted soil. The Lovington Gathering WTI Pipeline was repaired utilizing a pipeline clamp and the visually stained soil was excavated and placed on plastic sheeting. Approximately 12 barrels of crude oil were released from the Plains pipeline and 8 barrels were recovered. The fenced excavated release area is characterized by a Plains pipeline right-of-way adjacent to an idled Plains pump station in a pasture containing various oil and gas production facilities. The initial visibly surface stained area included the release point covering an area approximately 30 feet long by 27 feet wide. Excavation activities during the emergency response and subsequent remediation of the site covered an area approximately 30 feet long by 27 feet wide and ranges from approximately 5 to 6 feet below ground surface (bgs), respectively. Excavated soil was placed on a 6-mil poly-liner for future remedial action.

Based on field screening instrumentation, Volatile Organic Compounds (VOCs) remain in the walls and floor of the excavation. In July 2006, horizontal and vertical delineation of the soil impacts at the site were completed and based on the laboratory results, three (3) groundwater monitoring wells were also installed to evaluate the quality of groundwater.

Based on the laboratory results from the initial groundwater sampling event (MW-1, MW-2 and MW-3), four (4) additional monitoring wells were installed in November 2006. During the installation of the seven (7) groundwater monitoring wells, there were no visual signs of PSH and laboratory results of the selected soil samples did not indicate BTEX and TPH constituent concentrations above laboratory method detection limits for the soil samples submitted to the laboratory with the exception of monitoring well MW-3 which exhibited detectable TPH-

GRO/DRO constituent concentrations in soil at 55 and 75 feet bgs at 2080 mg/kg and 121 mg/kg, respectively.

Currently, there are seven (7) groundwater monitoring wells, MW-1 which is up gradient, MW-4 and MW-5, which are cross gradient, and MW-2, MW-3, MW-6 and MW-7, which are down gradient, on site.

## **FIELD ACTIVITIES**

The site monitoring wells were gauged and sampled on 05 October 2006 and 28 December 2006. During these sampling events, the monitoring wells were purged of approximately three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer mounted polystyrene tank and disposed at an approved disposal in Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the fourth quarter monitoring event, are depicted on Figures 2A and 2B. The groundwater elevation data are provided as Table 1.

The Groundwater Gradient Map, Figure 2B, indicates a general gradient of approximately 0.002 ft/ft. to the south-southeast as measured between groundwater monitor wells MW-1 and MW-7. The corrected groundwater elevation ranged between 3728.60 and 3727.65 feet, in MW-1 and MW-7, 28 December 2006, respectively.

## **LABORATORY RESULTS**

Groundwater samples were collected from the groundwater monitoring wells (MW-1 through MW-7) during the quarterly monitoring event were delivered to Environmental Laboratory of Texas, Odessa, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. A summary of BTEX constituent concentrations for 2006 is presented in Table 2 and the laboratory reports are provided as Appendix A.

Laboratory results for the three (3) site groundwater samples, obtained during the initial sampling period in October 2006, indicated that benzene and total BTEX constituent concentrations were not detected above laboratory method detection limits for groundwater monitoring well MW-1. Laboratory results indicated that benzene constituent concentrations were at NMOCD limits for monitoring well MW-2 at 0.010 mg/L and below NMOCD limits for total BTEX concentrations. Laboratory results indicated that benzene concentrations exceeded the NMOCD limit for MW-3 at 6.60 mg/L as depicted on Figure 3A.

Laboratory results for the seven (7) site groundwater samples, obtained during the fourth quarter sampling event in December 2006, indicated that benzene and total BTEX constituent concentrations were not detected above laboratory method detection limits for groundwater

monitoring wells MW-4, MW-5 and MW-6. Laboratory results indicated that benzene constituent concentrations were not detected above laboratory detection methods for MW-1 and were significantly below NMOCD limits for total BTEX concentrations at 0.002 mg/L. Laboratory results indicated that benzene constituent concentrations exceeded NMOCD limits for groundwater monitoring wells MW-2, MW-3 and MW-7 at 0.161 mg/L, 1.02 mg/L and 0.047 mg/L, respectively and total BTEX concentrations were below NMOCD limits. Based on the groundwater analytical results, the groundwater impact does not appear to be delineated to the southeast of monitor well MW-7.

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

### **SUMMARY**

Based on the depth of the soil impact at this site, NMOCD requested quarterly groundwater sampling events be conducted at this site. This report presents the results of monitoring activities for the monitoring period. Currently, there are seven (7) groundwater monitoring wells (MW-1, through MW-7) on-site. The fourth (4<sup>th</sup>) quarter groundwater sampling event on 28 December 2006, indicates a general gradient of approximately 0.002 ft/ft to the south-southeast, as indicated on the Groundwater Gradient Map, Figure 2B.

Laboratory results for the seven (7) site groundwater samples, obtained during the fourth quarter sampling period, indicated that benzene and total BTEX constituent concentrations were not detected above laboratory method detection limits for groundwater monitoring wells MW-4, MW-5 and MW-6. Laboratory results indicated that benzene constituent concentrations were not detected above laboratory detection methods for MW-1 and were significantly below NMOCD limits for total BTEX concentrations. Laboratory results indicated that benzene constituent concentrations exceeded NMOCD limits for groundwater monitoring wells MW-2, MW-3 and MW-7 and total BTEX concentrations were below NMOCD limits.

### **ANTICIPATED ACTIONS**

An abatement plan will be accomplished and submitted to NMOCD for approval addressing the following areas:

- Continued groundwater monitoring on a quarterly sampling schedule and annual reporting.
- Delineation of the groundwater impact with the installation of one (1) monitor well southeast of MW-7.
- Soil remediation of the release site.

## LIMITATIONS

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

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

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

**DISTRIBUTION**

Copy 1: Ben Stone  
New Mexico Energy, Minerals and Natural Resources Department  
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Santa Fe, New Mexico 87505  
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Hobbs, New Mexico 88240  
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Copy Number: 1



# FIGURES

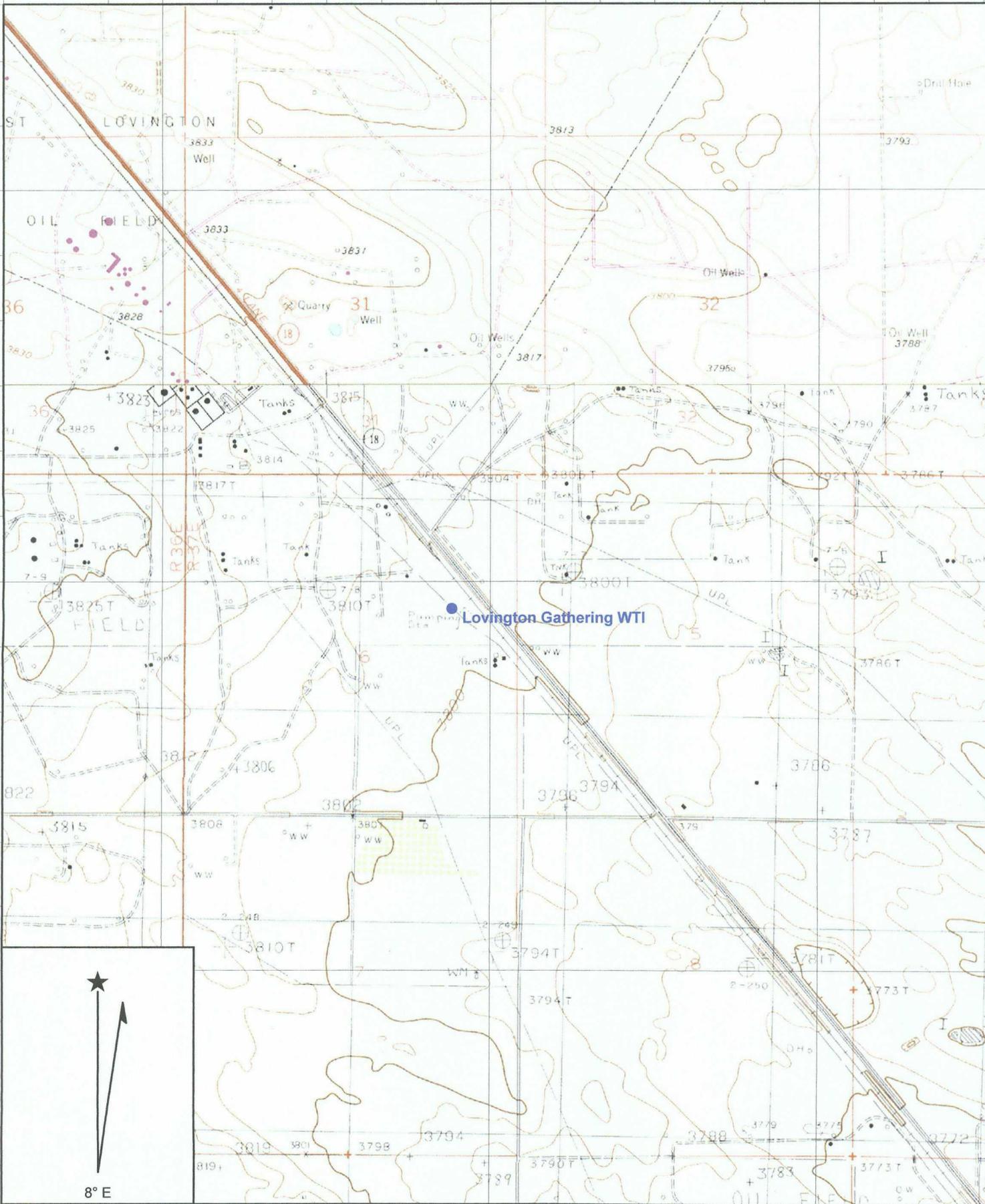
**FIGURE 1**

**SITE LOCATION MAP**

103° 18' 00.00" W

103° 17' 00.00" W

103° 16' 00.00" W



032° 53' 00.00" N

032° 52' 00.00" N

032° 51' 00.00" N

103° 18' 00.00" W

103° 17' 00.00" W

103° 16' 00.00" W

Name: LOVINGTON SE  
 Date: 2/12/2007  
 Scale: 1 inch equals 2000 feet

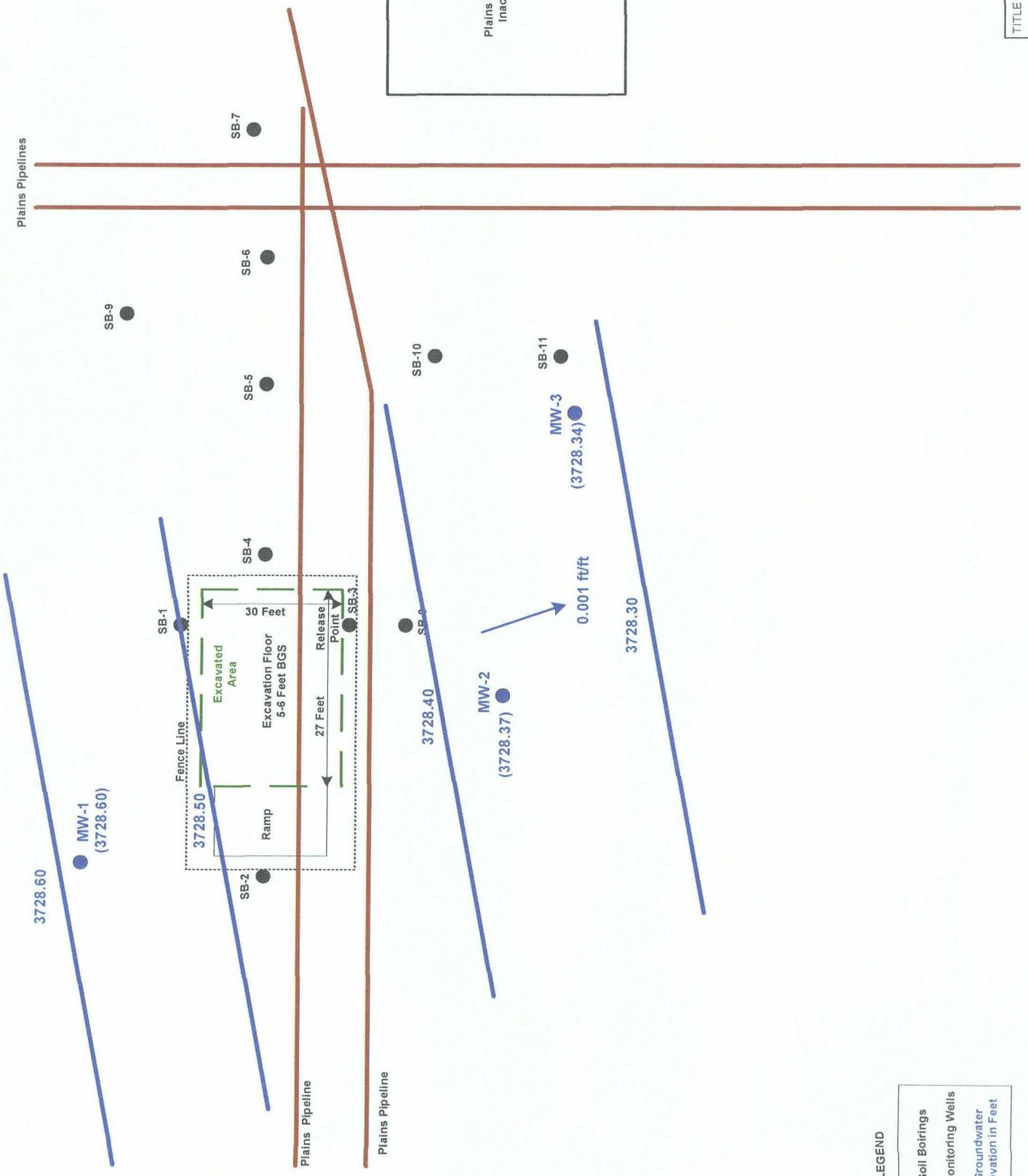
Location: 032° 51' 56.38" N 103° 16' 59.00" W  
 Caption: Figure 1, Site Location Map  
 Plains Marketing, L. P.  
 Lovington Gathering WTI

**FIGURE 2A**

**INFERRED GROUNDWATER  
GRADIENT MAP  
05 OCTOBER 2006**



Plains Marketing, L. P.  
 Inactive Pumping  
 Station



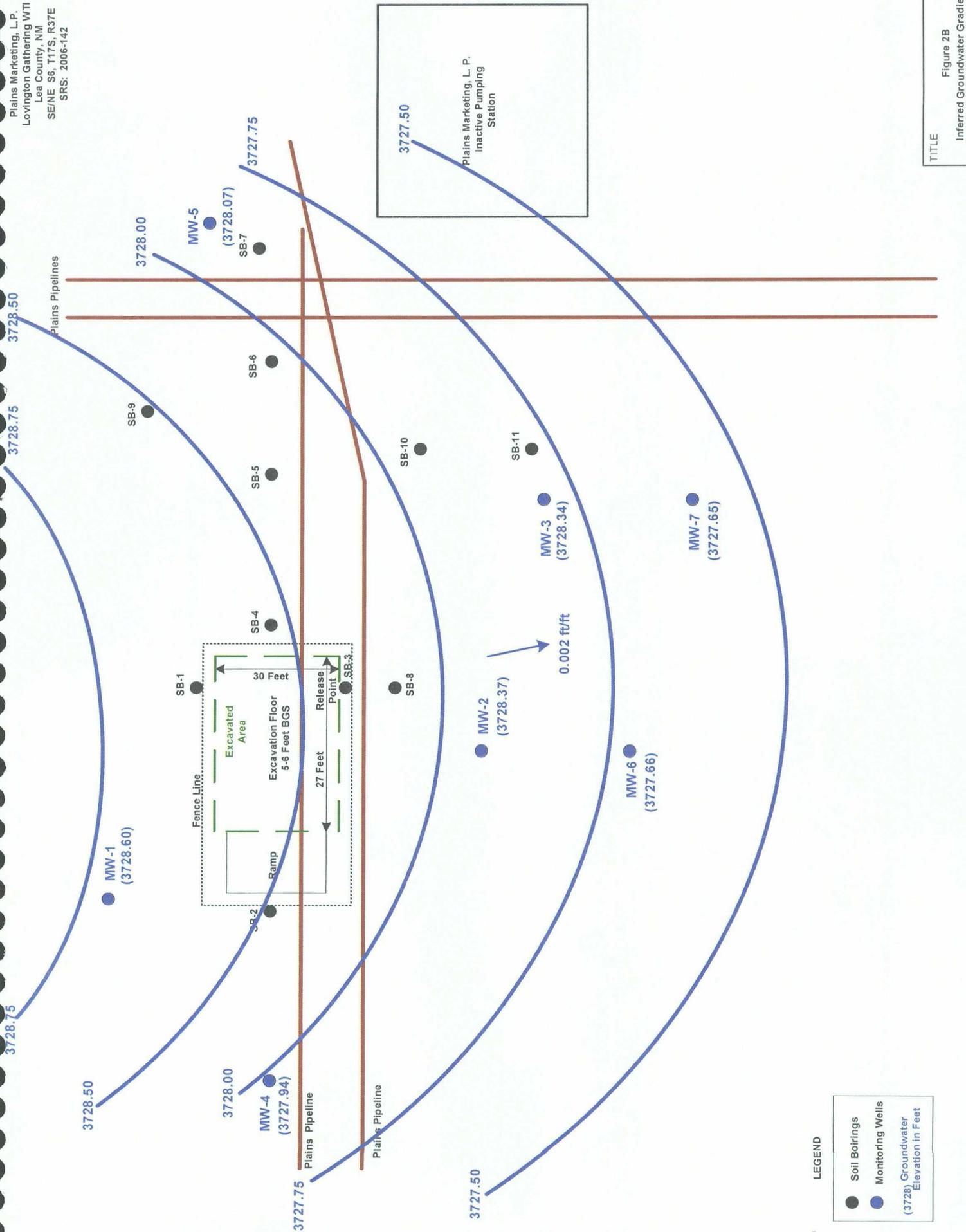
**LEGEND**

- Soil Borings
- Monitoring Wells
- (3728) Groundwater Elevation in Feet

TITLE  
 Figure 2A  
 Inferred Groundwater Gradient Map  
 05 October, 2006

**FIGURE 2B**

**INFERRED GROUNDWATER  
GRADIENT MAP  
28 DECEMBER 2006**



**LEGEND**

- Soil Borings
- Monitoring Wells (3728) Groundwater Elevation in Feet

TITLE  
 Figure 2B  
 Inferred Groundwater Gradient Map  
 28 December 2006

**FIGURE 3A**

**GROUNDWATER CONCENTRATION  
MAP  
05 OCTOBER 2006**

Plains Marketing, L.P.  
 Lovington Gathering WTI  
 Lea County, NM  
 SE/NE S6, T17S, R37E  
 SRS: 2006-142

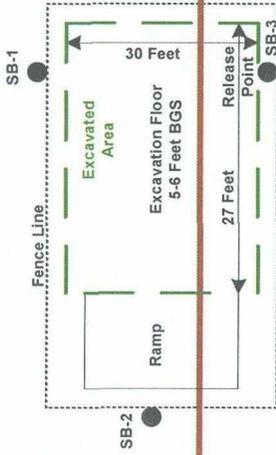


Plains Pipelines

Plains Marketing, L. P.  
 Inactive Pumping  
 Station

MW-1

Benzene: <0.001 mg/L  
 BTEX: <0.001 mg/L



SB-7

SB-6

SB-9

SB-5

SB-4

SB-10

MW-3

Benzene: 6.600 mg/L  
 BTEX: 6.672 mg/L

MW-2

Benzene: 0.010 mg/L  
 BTEX: 0.010 mg/L

SB-8

Plains Pipeline

Plains Pipeline

LEGEND

- Soil Boilings
- Monitoring Wells
- mg/L = milligrams per liter
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes

TITLE

Figure 3A  
 Groundwater Concentration Map  
 08 October 2006

**FIGURE 3B**

**GROUNDWATER CONCENTRATION  
MAP  
28 DECEMBER 2006**

Plains Marketing, L.P.  
 Lovington Gathering WTI  
 Lea County, NM  
 SE/NE S6, T17S, R37E  
 SRS: 2006-142

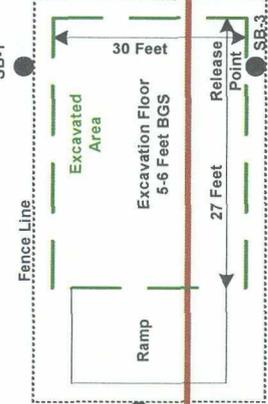


Plains Pipelines

Plains Marketing, L. P.  
 Inactive Pumping  
 Station

MW-1

Benzene: <0.001 mg/L  
 BTEX: 0.002 mg/L



MW-4

Benzene: <0.001 mg/L  
 BTEX: <0.001 mg/L

SB-9

MW-5

Benzene: <0.001 mg/L  
 BTEX: <0.001 mg/L

SB-7

SB-6

SB-5

SB-4

SB-1

SB-2

SB-10

MW-2

Benzene: 0.161 mg/L  
 BTEX: 0.185 mg/L

SB-8

SB-11

MW-3

Benzene: 1.020 mg/L  
 BTEX: 1.053 mg/L

MW-6

Benzene: <0.001 mg/L  
 BTEX: <0.001 mg/L

MW-7

Benzene: 0.047 mg/L  
 BTEX: 0.048 mg/L

LEGEND

- Soil Borings
- Monitoring Wells
- mg/L = milligrams per liter
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes

TITLE

Figure 3B  
 Groundwater Concentration Map  
 28 December 2006



# TABLES

**TABLE 1**

**GROUNDWATER ELEVATION DATA**



**TABLE 2**

**CONCENTRATIONS OF BENZENE  
AND BTEX IN GROUNDWATER**

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

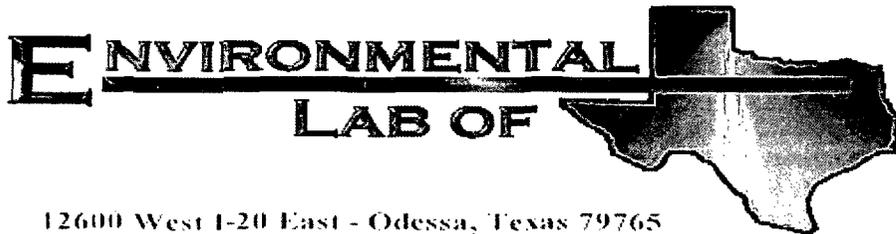
PLAINS MARKETING, L.P.  
 LOVINGTON GATHERING WTI  
 LEA COUNTY, NEW MEXICO  
 PLAINS SRS NO. 2006-142

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
MW-1	10/05/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/28/06	<0.001	<0.001	<0.001	0.002	<0.001
MW-2	10/05/06	0.010	<0.001	<0.001	<0.001	<0.001
	12/28/06	0.161	<0.001	<0.001	0.024	<0.001
MW-3	10/05/06	6.60	<0.001	<0.001	0.072	<0.001
	12/28/06	1.02	<0.001	0.005	0.028	<0.001
MW-4	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	12/28/06	0.047	<0.001	<0.001	0.001	<0.001
<b>NMOCD CRITERIA</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>TOTAL XYLENES 0.62</b>	

# APPENDICES

**APPENDIX A**

**LABORATORY REPORTS**



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6L29011

Report Date: 01/02/07

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

Project: Lovington Gathering WTI  
Project Number: SRS: 2006-142  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6L29011-01	Water	12/28/06 08:00	12-29-2006 14:00
MW-4	6L29011-02	Water	12/28/06 09:15	12-29-2006 14:00
MW-5	6L29011-03	Water	12/28/06 10:25	12-29-2006 14:00
MW-6	6L29011-04	Water	12/28/06 11:30	12-29-2006 14:00
MW-7	6L29011-05	Water	12/28/06 12:50	12-29-2006 14:00
MW-2	6L29011-06	Water	12/28/06 14:00	12-29-2006 14:00
MW-3	6L29011-07	Water	12/28/06 15:15	12-29-2006 14:00

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

Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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
<b>MW-1 (6L29011-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	12/31/06	EPA 8021B	
Toluene	J [0.000583]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000454]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00222	0.00100	"	"	"	"	"	"	
Xylene (o)	J [0.000796]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120	"	"	"	"	"	
<b>MW-4 (6L29011-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	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		82.0 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120	"	"	"	"	"	
<b>MW-5 (6L29011-03) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	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		89.5 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120	"	"	"	"	"	
<b>MW-6 (6L29011-04) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	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		90.5 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

*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.*

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

Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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
<b>MW-7 (6L29011-05) Water</b>									
Benzene	0.0473	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.000357]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000202]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00130	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
<b>MW-2 (6L29011-06) Water</b>									
Benzene	0.161	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.000389]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000242]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0248	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	
<b>MW-3 (6L29011-07) Water</b>									
Benzene	1.02	0.00500	mg/L	5	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.00339]	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.00533	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.0280	0.00500	"	"	"	"	"	"	
Xylene (o)	J [0.00479]	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	80-120		"	"	"	"	

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

Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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 EL63101 - EPA 5030C (GC)**

**Blank (EL63101-BLK1)**

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	36.1		ug/l	40.0		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

**LCS (EL63101-BS1)**

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0455	0.00100	mg/L	0.0500		91.0	80-120			
Toluene	0.0472	0.00100	"	0.0500		94.4	80-120			
Ethylbenzene	0.0444	0.00100	"	0.0500		88.8	80-120			
Xylene (p/m)	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (o)	0.0439	0.00100	"	0.0500		87.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.2		ug/l	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

**Calibration Check (EL63101-CCV1)**

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	48.2		ug/l	50.0		96.4	80-120			
Toluene	49.3		"	50.0		98.6	80-120			
Ethylbenzene	56.4		"	50.0		113	80-120			
Xylene (p/m)	94.8		"	100		94.8	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		"	40.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.1		"	40.0		110	80-120			

**Matrix Spike (EL63101-MS1)**

Source: 6L29005-01

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0470	0.00100	mg/L	0.0500	ND	94.0	80-120			
Toluene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.0959	0.00100	"	0.100	ND	95.9	80-120			
Xylene (o)	0.0441	0.00100	"	0.0500	ND	88.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		ug/l	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	80-120			

Plains All American EH & S  
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 Midland TX, 79706-4476

Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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 EL63101 - EPA 5030C (GC)**

**Matrix Spike Dup (EL63101-MSD1)**

**Source: 6L29005-01**

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0461	0.00100	mg/L	0.0500	ND	92.2	80-120	1.93	20	
Toluene	0.0485	0.00100	"	0.0500	ND	97.0	80-120	2.51	20	
Ethylbenzene	0.0527	0.00100	"	0.0500	ND	105	80-120	4.88	20	
Xylene (p/m)	0.0978	0.00100	"	0.100	ND	97.8	80-120	1.96	20	
Xylene (o)	0.0458	0.00100	"	0.0500	ND	91.6	80-120	3.78	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0		106	80-120			

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

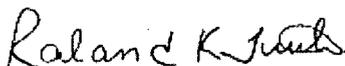
Project: Lovington Gathering WTI  
Project Number: SRS: 2006-142  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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:

1/2/2007

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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**  
 Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L/ Basin Env.  
 Date/ Time: 12-29-06 @ 1400  
 Lab ID #: 6L29011  
 Initials: JMM

**Sample Receipt Checklist**

Client Initials

	Yes	No		Client Initials
1 Temperature of container/ cooler?	<input checked="" type="checkbox"/>	No	0-0 °C	
2 Shipping container in good condition?	<input checked="" type="checkbox"/>	No		
3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	No	Not Present	
5 Chain of Custody present?	<input checked="" type="checkbox"/>	No		
6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	No		
7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	No		
8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	<input checked="" type="checkbox"/>	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	No		
11 Containers supplied by ELOT?	<input checked="" type="checkbox"/>	No		
12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	No	See Below	
13 Samples properly preserved?	<input checked="" type="checkbox"/>	No	See Below	
14 Sample bottles intact?	<input checked="" type="checkbox"/>	No		
15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	No	See Below	
18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No	See Below	
19 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable	

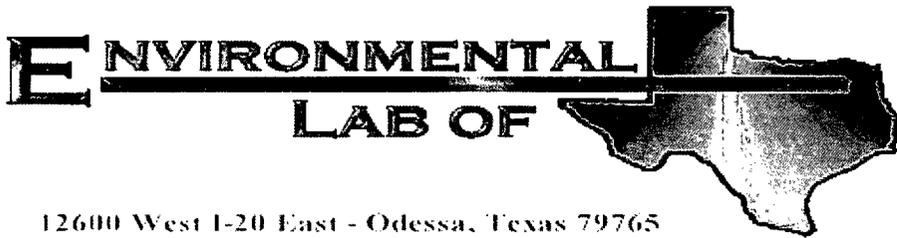
**Variance Documentation**

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



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea Co., NM

Lab Order Number: 6J06008

Report Date: 10/18/06

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

Project: Lovington Gathering WTI  
Project Number: SRS: 2006-142  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6J06008-01	Water	10/05/06 11:55	10-06-2006 14:00
MW-2	6J06008-02	Water	10/05/06 14:40	10-06-2006 14:00
MW-3	6J06008-03	Water	10/05/06 16:55	10-06-2006 14:00

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Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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
<b>MW-1 (6J06008-01) Water</b>									
Benzene	ND	0.0100	mg/L	10	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.5 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120	"	"	"	"	"	
<b>MW-2 (6J06008-02) Water</b>									
<b>Benzene</b>	<b>0.0109</b>	0.0100	mg/L	10	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.0 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.8 %	80-120	"	"	"	"	"	
<b>MW-3 (6J06008-03) Water</b>									
<b>Benzene</b>	<b>6.60</b>	0.0250	mg/L	25	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>J [0.0144]</b>	0.0250	"	"	"	"	"	"	
<b>Xylene (p/m)</b>	<b>0.0723</b>	0.0250	"	"	"	"	"	"	
<b>Xylene (o)</b>	<b>J [0.00948]</b>	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.0 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120	"	"	"	"	"	

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

Project: Lovington Gathering WTI  
 Project Number: SRS: 2006-142  
 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 EJ61608 - EPA 5030C (GC)**

**Blank (EJ61608-BLK1)**

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	32.4		ug/l	40.0		81.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			

**LCS (EJ61608-BS1)**

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0482	0.00100	mg/L	0.0500		96.4	80-120			
Toluene	0.0428	0.00100	"	0.0500		85.6	80-120			
Ethylbenzene	0.0413	0.00100	"	0.0500		82.6	80-120			
Xylene (p/m)	0.0853	0.00100	"	0.100		85.3	80-120			
Xylene (o)	0.0409	0.00100	"	0.0500		81.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.7		ug/l	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.8		"	40.0		107	80-120			

**Calibration Check (EJ61608-CCV1)**

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	50.4		ug/l	50.0		101	80-120			
Toluene	43.5		"	50.0		87.0	80-120			
Ethylbenzene	41.4		"	50.0		82.8	80-120			
Xylene (p/m)	81.9		"	100		81.9	80-120			
Xylene (o)	40.3		"	50.0		80.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.7		"	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.0		"	40.0		87.5	80-120			

**Matrix Spike (EJ61608-MS1)**

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120			
Toluene	0.0462	0.00100	"	0.0500	ND	92.4	80-120			
Ethylbenzene	0.0424	0.00100	"	0.0500	ND	84.8	80-120			
Xylene (p/m)	0.0932	0.00100	"	0.100	ND	93.2	80-120			
Xylene (o)	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/l	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120			

Environmental Lab of Texas

*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: Lovington Gathering WTI  
Project Number: SRS: 2006-142  
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 EJ61608 - EPA 5030C (GC)**

**Matrix Spike Dup (EJ61608-MSD1)**

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0500	0.00100	mg/L	0.0500	ND	100	80-120	3.92	20	
Toluene	0.0424	0.00100	"	0.0500	ND	84.8	80-120	8.58	20	
Ethylbenzene	0.0453	0.00100	"	0.0500	ND	90.6	80-120	6.61	20	
Xylene (p/m)	0.0807	0.00100	"	0.100	ND	80.7	80-120	14.4	20	
Xylene (o)	0.0412	0.00100	"	0.0500	ND	82.4	80-120	4.74	20	
Surrogate: a,a,a-Trifluorotoluene	33.8		ug/l	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.7		"	40.0		86.8	80-120			

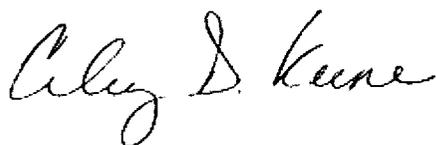
Plains All American EH & S  
1301 S. County Road 1150  
Midland TX, 79706-4476

Project: Lovington Gathering WTI  
Project Number: SRS: 2006-142  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

S-INT Sample contains high levels of surfactants.  
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: 10/18/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
La Tasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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



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

Client: Plains P/L / Basin Env.  
 Date/ Time: 10-06-06 @ 1400  
 Lab ID #: 6J06008  
 Initials: Jmm

**Sample Receipt Checklist**

Client Initials

	Yes	No		
#1 Temperature of container/ cooler?	<input checked="" type="radio"/>	<input type="radio"/>	2.0	°C
#2 Shipping container in good condition?	<input checked="" type="radio"/>	<input type="radio"/>		
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="radio"/>	<input type="radio"/>	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="radio"/>	<input type="radio"/>	Not Present	
#5 Chain of Custody present?	<input checked="" type="radio"/>	<input type="radio"/>		
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="radio"/>	<input type="radio"/>		
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="radio"/>	<input type="radio"/>		
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="radio"/>	<input type="radio"/>	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<input checked="" type="radio"/>	<input type="radio"/>	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="radio"/>	<input type="radio"/>		
#11 Containers supplied by ELOT?	<input checked="" type="radio"/>	<input type="radio"/>		
#12 Samples in proper container/ bottle?	<input checked="" type="radio"/>	<input type="radio"/>	See Below	
#13 Samples properly preserved?	<input checked="" type="radio"/>	<input type="radio"/>	See Below	
#14 Sample bottles intact?	<input checked="" type="radio"/>	<input type="radio"/>		
#15 Preservations documented on Chain of Custody?	<input checked="" type="radio"/>	<input type="radio"/>		
#16 Containers documented on Chain of Custody?	<input checked="" type="radio"/>	<input type="radio"/>		
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/>	<input type="radio"/>	See Below	
#18 All samples received within sufficient hold time?	<input checked="" type="radio"/>	<input type="radio"/>	See Below	
#19 VOC samples have zero headspace?	<input checked="" type="radio"/>	<input type="radio"/>	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 B**

**RELEASE NOTIFICATION AND  
CORRECTIVE ACTION (FORM C-141)**

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

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

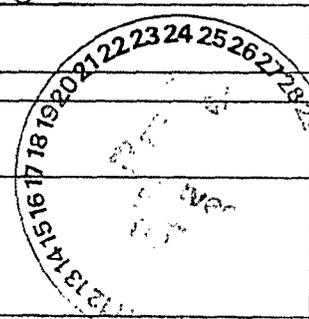
**LOCATION OF RELEASE**

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

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

**NATURE OF RELEASE**

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



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken Internal corrosion while purging the line resulted in release of sweet crude oil. The line has been purged. The line is an idle 6-inch steel gathering line. The pressure on the line was approximately 50 psi and the gravity of the sweet crude oil was 34. The sweet crude has an H<sub>2</sub>S content of <10 ppm. The line was approximately 1.5 feet bgs at the release point.

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

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: <i>Camille Reynolds</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/26/2006 DCC	Phone: 505-441-	