

**SOILS REMEDIATION WORKPLAN
E.K. QUEEN TRUNK
LEA COUNTY, NEW MEXICO
NMOCD REF. # RP-1167
SRS #2007-024**

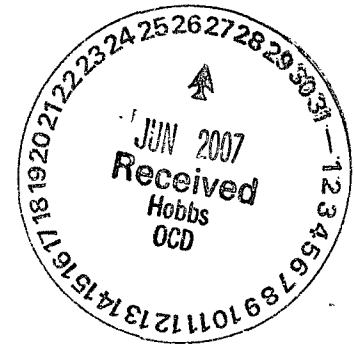
Section 19, Township 18 South, Range 34 East

Prepared for:

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Prepared by:

Talon/LPE
Marc Stroope
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May 16, 2007

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EK Queen 6" Trunk Line

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 18S Range: 34E Sections: 19

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
 All

POD / Surface Data Report Avg Depth to Water Report

Water Column Report

Clear Form iWATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 06/12/2007

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	18S	34E	19				1	105	105	105

Record Count: 1

**E.K. Queen Trunk
Soils Remediation Workplan**

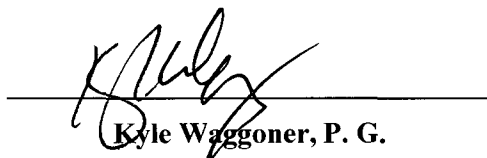
**Plains Pipeline, L.P.
Houston, Texas**

Talon/LPE PROJECT NO. PLAINS041SPL

Prepared by:

A handwritten signature in black ink, appearing to read 'M. Stroope', is written over a horizontal line.

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May 2007

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NMOCD – New Mexico Oil Conservation Division
BLM – New Mexico Bureau of Land Management

TABLE OF CONTENTS

1.0	Introduction and Objectives	1
1.1	Objectives and Site Location	1
1.2	Site Background	1
1.3	Regulatory Framework	1
2.0	Field Activities	3
2.1	Soil Investigation Activities.....	3
2.2	Soil Sampling Activities	3
3.0	Conclusions	3
3.1	Proposed Remediation Activities.....	3

Appendices

Appendix A Drawings

Figure 1 – Topographic Map

Figure 2 – Site Map With Confirmation Sampling Locations

Appendix B Tables

Table 1 – Summary of Soil Analytical Data

Appendix C Laboratory Analytical Data Sheets and Chain of Custody Documentation

Appendix D Photograph Documentation

1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Location

Talon/LPE was retained by Plains Pipeline, L.P. (Plains) to conduct a soils investigation at the E.K. Queen Trunk crude oil pipeline release site in Lea County, New Mexico. The purpose of this investigation was to delineate and remediate hydrocarbon impacted soils at this location.

The E.K. Queen Trunk release site is located approximately 25 miles east of Loco Hills in Lea County, New Mexico. The GPS coordinates for the site are 32°43'44.1"N latitude and 103°36'01.3"W longitude. The release occurred on property owned by the United States Department of Interior Bureau of Land Management (BLM) and is utilized as pasture land. The site is located in a rural area with no residences or surface water within a 1,000 foot radius of the facility. A topographic map is provided as Figure 1 in Appendix A.

1.2 Site Background

In January 2007, a release of approximately ninety (90) barrels of crude oil occurred at the site due to internal corrosion of the pipeline, of which approximately seventy (70) barrels were recovered. Approximately sixteen thousand (16,000) square feet of surface area was impacted by the release. Approximately 2,500 cubic yards of soil were excavated and placed on a plastic liner.

1.3 Regulatory Framework

The NMOCD has developed guidance for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for benzene, Total BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH). Based on site visits, the E.K. Queen Trunk site is located in a rural area with no permanent residence or surface water within a 1,000 foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is not within 1000 feet of the site. Based on this groundwater elevation data, the approximate depth from land surface to groundwater at the site is 105 feet below ground surface (bgs). The impacted area was excavated to a depth of approximately 18 feet, making the depth to groundwater from the depth of the excavation 87 feet.

According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies the site ranking for this site is ten (10). The ranking process is summarized below:

<u>Criteria:</u>	<u>Site Condition:</u>	<u>Ranking Score:</u>
Depth to Groundwater	87 feet	10
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	>1,000 feet	0
Total Ranking:		10

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	10 ppm
Total BTEX	50 ppm
TPH	1,000 ppm

2.0 FIELD ACTIVITIES

2.1 Soil Investigation Activities

Talon/LPE commenced excavation activities at the site in January 2007 in order to remove soil impacted above the NMOCD remedial threshold limits. Approximately 2,500 cubic yards of soil were excavated and placed on a plastic liner. The excavated area is approximately 225 feet long, 70 feet wide, and three feet in depth.

2.2 Soil Sampling Activities

Upon the completion of excavation activities, grab samples were collected from the north sidewall (NW-1, NW-2, and NW-3) and the south sidewall (WW-1, WW-2, and WW-3) to document the successful removal of soil impacted above NMOCD remedial thresholds (reference Figure 2). In addition, grab samples were also collected from the middle wall (MW-1, MW-2, and MW-3) and bottom of the excavation (BH-1, BH-2, and BH-3) as referenced in Figure 2. Laboratory analyses of the samples collected on March 7, 2007 showed all sample locations in the excavated area to be below the NMOCD remedial thresholds (reference Table 1). Stockpile samples (SP-1, SP-2, SP-3, and SP-4) collected on March 7, 2007 exhibited TPH and Total BTEX concentrations above the NMOCD remedial thresholds (reference Figure 2 and Table 1).

3.0 CONCLUSIONS

3.1 Proposed Remediation Activities

The excavation confirmation soil samples indicated TPH and Total BTEX concentrations below NMOCD guidelines. Therefore, Talon/LPE proposes that the excavated soil be transported to an NMOCD approved landfill and the excavation area be backfilled with imported fill material.

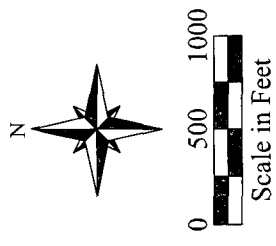
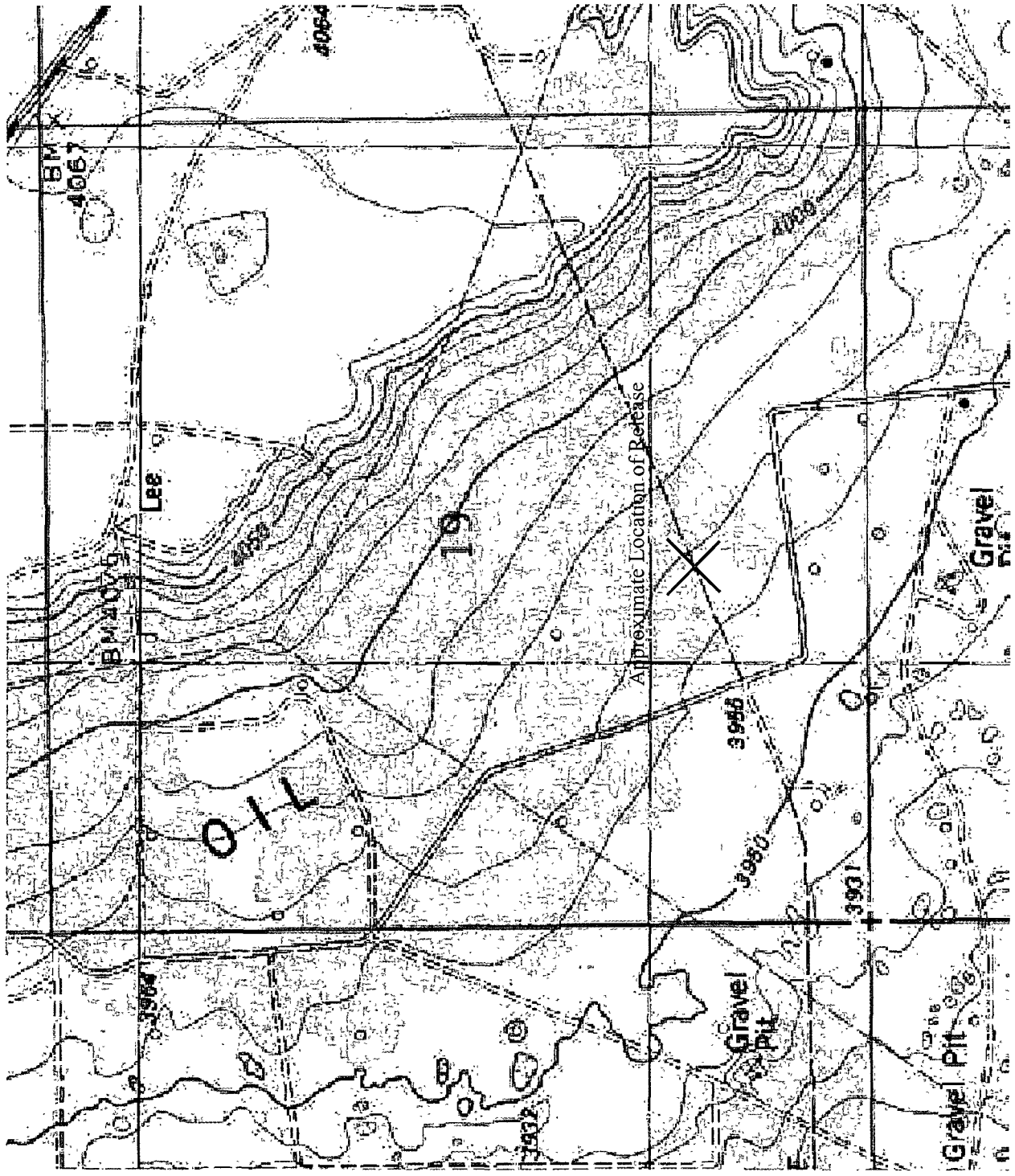
Upon completion of the backfill activities, the activities will be compiled as a soil closure report and submitted to the NMOCD for approval.

Appendix A

Drawings

Figure 1 – Topographic Map

Figure 2 – Site Map With Confirmation Sampling Locations

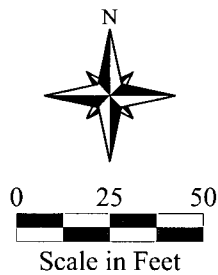
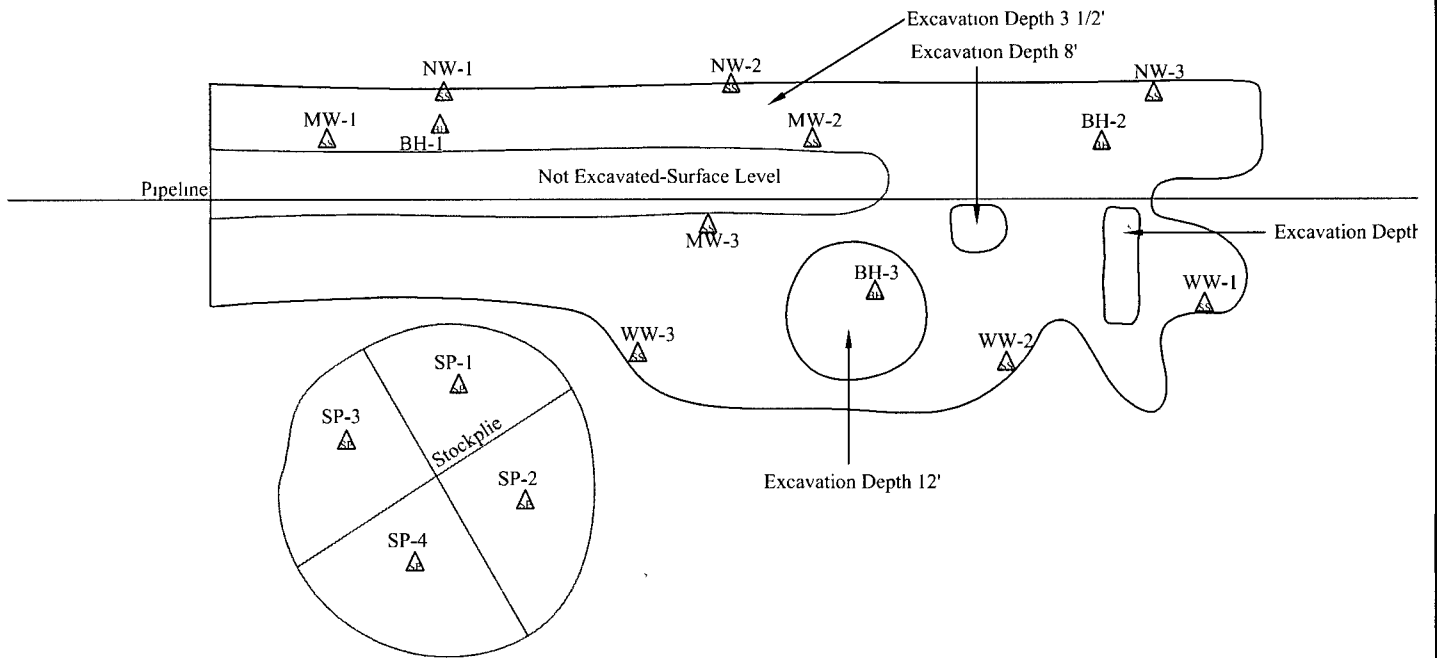


Date: 05/07/2007
 Scale: 1" = 1000'
 Drawn By: WDR

E. K. Queen Trunk (PLAINS041SPL)
 SRS # 2007-024
 Lea County, New Mexico

Figure 1 - Topographic Map - Ironhouse Well - 1984





<u>Legend</u>	
△(WW)	- South Wall Samples
△(NW)	- North Wall Samples
△(MW)	- Middle Wall Samples
△(SP)	- Stockpile Samples
△(BH)	- Bottom Hole Samples
—	- Excavation Area
- - -	- Surface Area



Date: 04/13/2007
 Scale: 1" = 40'
 Drawn By: WDR

E. K. Queen Trunk (PLAINS041SPL)
 SRS # 2007-024
 Lea County, New Mexico
 Figure 2 - Site Map with Confirmation Sampling Locations

APPENDIX B

Tables

Table 1 – Summary of Soil Analytical Data

Table 1
Summary of Soil Analytical Data
Plains Pipeline, L.P.
EK Queen 6" Trunk
Lea County, NM SRS# 2007-024
Talon/LPE Project Number PLAINS041SPL

Sample Designation	Date Sampled	Concentration					
		mg/Kg	mg/Kg				
		Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
NW-1	03/07/07	146	<0.00200	0.00544	0.00255	0.00541	0.03635
NW-2	03/07/07	183	0.00583	0.0171	0.0123	0.0334	0.06863
NW-3	03/07/07	169	<0.00200	0.00266	0.00489	0.01099	0.01854
MW-1	03/07/07	47.6	<0.00200	0.00234	0.00339	0.00919	0.01492
MW-2	03/07/07	270	<0.00200	0.00362	<0.00200	0.00499	0.00861
MW-3	03/07/07	268	0.00442	0.0231	0.0171	0.03058	0.07520
WW-1	03/07/07	78.9	0.00448	0.0357	0.0377	0.0606	0.13848
WW-2	03/07/07	24.9	<0.00200	0.00508	0.00273	0.00663	0.01444
WW-3	03/07/07	11.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
BH-1	03/07/07	612	<0.00200	0.00336	0.0162	0.0339	0.05346
BH-2	03/07/07	806	<0.00200	0.00231	0.00647	0.01834	0.02712
BH-3	03/07/07	372	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
SP-1	03/07/07	13,500	1.38	34.1	28.5	57.0	120.98
SP-2	03/07/07	21,600	6.54	45.7	47.8	84.7	184.74
SP-3	03/07/07	18,000	6.50	112	107	175.5	401
SP-4	03/07/07	6,800	1.23	16.8	19.0	33.48	70.51
NMOCD Remediation Guildelines		1,000	10				50

1 **Bolded** values are in excess of the NMOCD Remediation Thresholds

APPENDIX C

**Laboratory Analytical Data Sheets and Chain of Custody
Documentation**



12000 West I-20 Blvd - Odessa, Texas 79768

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 101 Line to Judkins

Project Number: EMS# 2006-026

Location: Lea County New Mexico

Lab Order Number: 7C09003

Report Date: 03/14/07

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

Project 101 Line to Judkins
Project Number EMS# 2006-026
Project Manager Camille Reynolds

Fax (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-1	7C09003-01	Soil	03/07/07 14 50	03-08-2007 17 30
NW-2	7C09003-02	Soil	03/07/07 14 56	03-08-2007 17 30
NW-3	7C09003-03	Soil	03/07/07 15 09	03-08-2007 17 30
MW-1	7C09003-04	Soil	03/07/07 15 17	03-08-2007 17 30
MW-2	7C09003-05	Soil	03/07/07 15 24	03-08-2007 17 30
MW-3	7C09003-06	Soil	03/07/07 15 31	03-08-2007 17 30
WW-1	7C09003-07	Soil	03/07/07 15 40	03-08-2007 17 30
WW-2	7C09003-08	Soil	03/07/07 15 46	03-08-2007 17 30
WW-3	7C09003-09	Soil	03/07/07 15 55	03-08-2007 17 30
BH-1	7C09003-10	Soil	03/07/07 16 10	03-08-2007 17 30
BH-2	7C09003-11	Soil	03/07/07 16 21	03-08-2007 17 30
BH-3	7C09003-12	Soil	03/07/07 16 26	03-08-2007 17 30
SP_1	7C09003-13	Soil	03/07/07 16 40	03-08-2007 17 30
SP-2	7C09003-14	Soil	03/07/07 16 50	03-08-2007 17 30
SP_3	7C09003-15	Soil	03/07/07 17 03	03-08-2007 17 30
SP-4	7C09003-16	Soil	03/07/07 17 18	03-08-2007 17 30

Plains All American EH & S
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Project 101 Line to Judkins
 Project Number EMS# 2006-026
 Project Manager Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-1 (7C09003-01) Soil									
Benzene	J [0.00172]	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	J
Toluene	0.00544	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00255	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.00247	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00294	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.0 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	J [5.29]	10.0	mg/kg dry	1	EC70809	03/08/07	03/09/07	EPA 8015M	J
Carbon Ranges C12-C28	131	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	15.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	146	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
NW-2 (7C09003-02) Soil									
Benzene	0.00583	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	0.0171	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.0123	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0224	0.00200	"	"	"	"	"	"	
Xylene (o)	0.0110	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.6 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	10.4	10.0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	157	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	15.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	183	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		129 %	70-130		"	"	"	"	
NW-3 (7C09003-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	0.00266	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00489	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.00645	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00454	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	J [8.35]	10.0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	J

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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.

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Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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
NW-3 (7C09003-03) Soil									
Carbon Ranges C12-C28	147	10.0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	22.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	169	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		100 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		126 %	70-130		"	"	"	"	
MW-1 (7C09003-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	0.00234	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00339	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.00512	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00407	0.00200	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		85.6 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		89.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	12.9	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	34.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [3.94]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	47.6	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		107 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		126 %	70-130		"	"	"	"	
MW-2 (7C09003-05) Soil									
Benzene	J [0.000902]	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	J
Toluene	0.00362	0.00200	"	"	"	"	"	"	
Ethylbenzene	J [0.00161]	0.00200	"	"	"	"	"	"	J
Xylene (p/m)	0.00207	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00292	0.00200	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		81.2 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		83.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	J [6.88]	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	244	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	26.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	270	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		105 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		126 %	70-130		"	"	"	"	

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Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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-3 (7C09003-06) Soil									
Benzene	0.00442	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	0.0231	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.0171	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0215	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00908	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.0 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	J [9.98]	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	232	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	36.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	268	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
WW-1 (7C09003-07) Soil									
Benzene	0.00448	0.00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	0.0357	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.0377	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0424	0.00200	"	"	"	"	"	"	
Xylene (o)	0.0182	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		76.6 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	14.0	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	53.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	11.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	78.9	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-130		"	"	"	"	
WW-2 (7C09003-08) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	0.00508	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00273	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.00344	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00319	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		77.8 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	

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 Midland TX, 79706-4476

Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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
WW-2 (7C09003-08) Soil									
Carbon Ranges C12-C28	24.9	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	24.9	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		122 %	70-130		"	"	"	"	
WW-3 (7C09003-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		70.4 %	75-125		"	"	"	"	S-DUP
<i>Surrogate: 4-Bromofluorobenzene</i>		85.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	11.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	11.3	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		106 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		127 %	70-130		"	"	"	"	
BH-1 (7C09003-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	0.00336	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.0162	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0220	0.00200	"	"	"	"	"	"	
Xylene (o)	0.0119	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		66.6 %	75-125		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		82.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	21.2	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	531	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	59.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	612	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		133 %	70-130		"	"	"	"	S-04

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 Project Number EMS# 2006-026
 Project Manager Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (7C09003-11) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	0.00231	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00647	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0110	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00734	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		64.6 %	75-125		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		80.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	50.9	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	686	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	68.6	10.0	"	"	"	"	"	"	
Total Hydrocarbons	806	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		117 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		140 %	70-130		"	"	"	"	S-04
BH-3 (7C09003-12) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		71.2 %	75-125		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		80.0 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	J [7.68]	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	332	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	40.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	372	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		109 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		132 %	70-130		"	"	"	"	S-04
SP_1 (7C09003-13) Soil									
Benzene	1.38	0.200	mg/kg dry	200	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	34.1	0.200	"	"	"	"	"	"	
Ethylbenzene	28.5	0.200	"	"	"	"	"	"	
Xylene (p/m)	40.4	0.200	"	"	"	"	"	"	
Xylene (o)	16.6	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	3750	50.0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	

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Project 101 Line to Judkins
 Project Number EMS# 2006-026
 Project Manager Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP_1 (7C09003-13) Soil									
Carbon Ranges C12-C28	9040	50.0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	680	50.0	"	"	"	"	"	"	
Total Hydrocarbons	13500	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		44.2 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		51.4 %	70-130		"	"	"	"	S-06
SP-2 (7C09003-14) Soil									
Benzene	6.54	0.400	mg/kg dry	400	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	45.7	0.400	"	"	"	"	"	"	
Ethylbenzene	47.8	0.400	"	"	"	"	"	"	
Xylene (p/m)	60.2	0.400	"	"	"	"	"	"	
Xylene (o)	24.5	0.400	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		93.4 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		116 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	6150	50.0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	14500	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	903	50.0	"	"	"	"	"	"	
Total Hydrocarbons	21600	50.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		58.6 %	70-130		"	"	"	"	S-06
<i>Surrogate 1-Chlorooctadecane</i>		66.4 %	70-130		"	"	"	"	S-06
SP_3 (7C09003-15) Soil									
Benzene	6.50	0.400	mg/kg dry	400	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	112	0.400	"	"	"	"	"	"	
Ethylbenzene	107	0.400	"	"	"	"	"	"	
Xylene (p/m)	127	0.400	"	"	"	"	"	"	
Xylene (o)	48.5	0.400	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		126 %	75-125		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	6860	50.0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	10400	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	705	50.0	"	"	"	"	"	"	
Total Hydrocarbons	18000	50.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		55.4 %	70-130		"	"	"	"	S-06
<i>Surrogate 1-Chlorooctadecane</i>		55.2 %	70-130		"	"	"	"	S-06

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-4 (7C09003-16) Soil									
Benzene	1.23	0.200	mg/kg dry	200	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	16.8	0.200	"	"	"	"	"	"	
Ethylbenzene	19.0	0.200	"	"	"	"	"	"	
Xylene (p/m)	24.3	0.200	"	"	"	"	"	"	
Xylene (o)	9.18	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	2140	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	4510	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	176	10.0	"	"	"	"	"	"	
Total Hydrocarbons	6830	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		185 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		197 %	70-130		"	"	"	"	S-04

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**General Chemistry Parameters by EPA / Standard Methods
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-1 (7C09003-01) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
NW-2 (7C09003-02) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
NW-3 (7C09003-03) Soil									
% Moisture	0.1	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-1 (7C09003-04) Soil									
% Moisture	1.0	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-2 (7C09003-05) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-3 (7C09003-06) Soil									
% Moisture	1.4	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-1 (7C09003-07) Soil									
% Moisture	0.2	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-2 (7C09003-08) Soil									
% Moisture	0.2	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-3 (7C09003-09) Soil									
% Moisture	0.1	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
BH-1 (7C09003-10) Soil									
% Moisture	2.0	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
BH-2 (7C09003-11) Soil									
% Moisture	1.4	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (7C09003-12) Soil									
% Moisture	1.2	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP_1 (7C09003-13) Soil									
% Moisture	8.2	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP-2 (7C09003-14) Soil									
% Moisture	8.4	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP_3 (7C09003-15) Soil									
% Moisture	7.1	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP-4 (7C09003-16) Soil									
% Moisture	3.9	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	

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Page 10 of 18

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70809 - Solvent Extraction (GC)

Blank (EC70809-BLK1)

Prepared 03/08/07 Analyzed 03/12/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	52.8		mg/kg	50.0		106	70-130			
Surrogate 1-Chlorooctadecane	62.1		"	50.0		124	70-130			

LCS (EC70809-BS1)

Prepared 03/08/07 Analyzed 03/09/07

Carbon Ranges C6-C12	561	10.0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	487	10.0	"	500		97.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1050	10.0	"	1000		105	75-125			
Surrogate 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate 1-Chlorooctadecane	62.2		"	50.0		124	70-130			

Calibration Check (EC70809-CCV1)

Prepared 03/08/07 Analyzed 03/13/07

Carbon Ranges C6-C12	222		mg/kg	250		88.8	80-120			
Carbon Ranges C12-C28	235		"	250		94.0	80-120			
Total Hydrocarbons	456		"	500		91.2	80-120			
Surrogate 1-Chlorooctane	54.2		"	50.0		108	70-130			
Surrogate 1-Chlorooctadecane	53.4		"	50.0		107	70-130			

Matrix Spike (EC70809-MS1)

Source: 7C08006-11

Prepared 03/08/07 Analyzed 03/10/07

Carbon Ranges C6-C12	643	10.0	mg/kg dry	534	ND	120	75-125			
Carbon Ranges C12-C28	533	10.0	"	534	ND	99.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1180	10.0	"	1070	ND	110	75-125			
Surrogate 1-Chlorooctane	64.9		mg/kg	50.0		130	70-130			
Surrogate 1-Chlorooctadecane	65.0		"	50.0		130	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70809 - Solvent Extraction (GC)

Matrix Spike Dup (EC70809-MSD1)	Source: 7C08006-11		Prepared 03/08/07		Analyzed 03/10/07					
Carbon Ranges C6-C12	642	10.0	mg/kg dry	534	ND	120	75-125	0.00	20	
Carbon Ranges C12-C28	535	10.0	"	534	ND	100	75-125	0.200	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1180	10.0	"	1070	ND	110	75-125	0.00	20	
Surrogate 1-Chlorooctane	64.6		mg/kg	50.0		129	70-130			
Surrogate 1-Chlorooctadecane	64.9		"	50.0		130	70-130			

Batch EC70901 - Solvent Extraction (GC)

Blank (EC70901-BLK1)	Prepared 03/09/07		Analyzed 03/12/07			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet			
Carbon Ranges C12-C28	ND	10.0	"			
Carbon Ranges C28-C35	ND	10.0	"			
Total Hydrocarbons	ND	10.0	"			
Surrogate 1-Chlorooctane	52.8		mg/kg	50.0	106	70-130
Surrogate 1-Chlorooctadecane	62.2		"	50.0	124	70-130

LCS (EC70901-BS1)	Prepared 03/09/07		Analyzed 03/10/07			
Carbon Ranges C6-C12	561	10.0	mg/kg wet	500	112	75-125
Carbon Ranges C12-C28	496	10.0	"	500	99.2	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00		75-125
Total Hydrocarbons	1060	10.0	"	1000	106	75-125
Surrogate 1-Chlorooctane	63.1		mg/kg	50.0	126	70-130
Surrogate 1-Chlorooctadecane	64.2		"	50.0	128	70-130

Calibration Check (EC70901-CCV1)	Prepared 03/09/07		Analyzed 03/13/07			
Carbon Ranges C6-C12	235		mg/kg	250	94.0	80-120
Carbon Ranges C12-C28	275		"	250	110	80-120
Total Hydrocarbons	510		"	500	102	80-120
Surrogate 1-Chlorooctane	54.9		"	50.0	110	70-130
Surrogate 1-Chlorooctadecane	55.9		"	50.0	112	70-130

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

Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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 EC70901 - Solvent Extraction (GC)

Matrix Spike (EC70901-MS1)	Source: 7C09003-09			Prepared 03/09/07 Analyzed 03/13/07						
Carbon Ranges C6-C12	544	10.0	mg/kg dry	501	ND	109	75-125			
Carbon Ranges C12-C28	485	10.0	"	501	11.3	94.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1000	11.3	102	75-125			
Surrogate 1-Chlorooctane	54.8		mg/kg	50.0		110	70-130			
Surrogate 1-Chlorooctadecane	55.2		"	50.0		110	70-130			

Matrix Spike Dup (EC70901-MSD1)	Source: 7C09003-09			Prepared 03/09/07 Analyzed 03/10/07						
Carbon Ranges C6-C12	554	10.0	mg/kg dry	501	ND	111	75-125	1.82	20	
Carbon Ranges C12-C28	484	10.0	"	501	11.3	94.4	75-125	0.212	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1040	10.0	"	1000	11.3	103	75-125	0.976	20	
Surrogate 1-Chlorooctane	64.1		mg/kg	50.0		128	70-130			
Surrogate 1-Chlorooctadecane	64.6		"	50.0		129	70-130			

Batch EC70902 - EPA 5030C (GC)

Blank (EC70902-BLK1)	Prepared & Analyzed 03/09/07									
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate a,a,a-Trifluorotoluene	51.5		ug/kg	50.0		103	75-125			
Surrogate 4-Bromofluorobenzene	52.1		"	50.0		104	75-125			

LCS (EC70902-BS1)	Prepared & Analyzed 03/09/07									
Benzene	0.0518	0.00100	mg/kg wet	0.0500		104	80-120			
Toluene	0.0481	0.00100	"	0.0500		96.2	80-120			
Ethylbenzene	0.0501	0.00100	"	0.0500		100	80-120			
Xylene (p/m)	0.0933	0.00100	"	0.100		93.3	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate a,a,a-Trifluorotoluene	49.2		ug/kg	50.0		98.4	75-125			
Surrogate 4-Bromofluorobenzene	56.0		"	50.0		112	75-125			

Environmental Lab of Texas

A Xenco Laboratories Company

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 Midland TX, 79706-4476

Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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 EC70902 - EPA 5030C (GC)

Calibration Check (EC70902-CCV1)

Prepared & Analyzed 03/09/07

Benzene	53.8		ug/kg	50.0		108	80-120			
Toluene	47.2		"	50.0		94.4	80-120			
Ethylbenzene	46.0		"	50.0		92.0	80-120			
Xylene (p/m)	88.1		"	100		88.1	80-120			
Xylene (o)	41.5		"	50.0		83.0	80-120			
Surrogate a,a,a-Trifluorotoluene	50.4		"	50.0		101	75-125			
Surrogate 4-Bromofluorobenzene	53.1		"	50.0		106	75-125			

Matrix Spike (EC70902-MS1)

Source: 7C09001-04

Prepared & Analyzed 03/09/07

Benzene	0.0993	0.00200	mg/kg dry	0.107	0.00113	91.7	80-120			
Toluene	0.0971	0.00200	"	0.107	0.00279	88.1	80-120			
Ethylbenzene	0.0947	0.00200	"	0.107	0.00341	85.3	80-120			
Xylene (p/m)	0.193	0.00200	"	0.214	0.0119	84.6	80-120			
Xylene (o)	0.0989	0.00200	"	0.107	0.00706	85.8	80-120			
Surrogate a,a,a-Trifluorotoluene	40.5		ug/kg	50.0		81.0	75-125			
Surrogate 4-Bromofluorobenzene	43.8		"	50.0		87.6	75-125			

Matrix Spike Dup (EC70902-MSD1)

Source: 7C09001-04

Prepared & Analyzed 03/09/07

Benzene	0.0961	0.00200	mg/kg dry	0.107	0.00113	88.8	80-120	3.21	20	
Toluene	0.0926	0.00200	"	0.107	0.00279	83.9	80-120	4.88	20	
Ethylbenzene	0.0953	0.00200	"	0.107	0.00341	85.9	80-120	0.701	20	
Xylene (p/m)	0.188	0.00200	"	0.214	0.0119	82.3	80-120	2.76	20	
Xylene (o)	0.0943	0.00200	"	0.107	0.00706	81.5	80-120	5.14	20	
Surrogate a,a,a-Trifluorotoluene	42.8		ug/kg	50.0		85.6	75-125			
Surrogate 4-Bromofluorobenzene	43.9		"	50.0		87.8	75-125			

Batch EC71207 - EPA 5030C (GC)

Blank (EC71207-BLK1)

Prepared & Analyzed 03/12/07

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate a,a,a-Trifluorotoluene	43.2		ug/kg	50.0		86.4	75-125			
Surrogate 4-Bromofluorobenzene	44.6		"	50.0		89.2	75-125			

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Project 101 Line to Judkins
 Project Number EMS# 2006-026
 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 EC71207 - EPA 5030C (GC)

LCS (EC71207-BS1)

Prepared & Analyzed 03/12/07

Benzene	0.0431	0.00100	mg/kg wet	0.0500		86.2	80-120			
Toluene	0.0412	0.00100	"	0.0500		82.4	80-120			
Ethylbenzene	0.0421	0.00100	"	0.0500		84.2	80-120			
Xylene (p/m)	0.0859	0.00100	"	0.100		85.9	80-120			
Xylene (o)	0.0406	0.00100	"	0.0500		81.2	80-120			
Surrogate a,a,a-Trifluorotoluene	41.9		ug/kg	50.0		83.8	75-125			
Surrogate 4-Bromofluorobenzene	47.1		"	50.0		94.2	75-125			

Calibration Check (EC71207-CCV1)

Prepared 03/12/07 Analyzed 03/13/07

Benzene	46.3		ug/kg	50.0		92.6	80-120			
Toluene	41.2		"	50.0		82.4	80-120			
Ethylbenzene	42.2		"	50.0		84.4	80-120			
Xylene (p/m)	85.3		"	100		85.3	80-120			
Xylene (o)	41.2		"	50.0		82.4	80-120			
Surrogate a,a,a-Trifluorotoluene	41.8		"	50.0		83.6	75-125			
Surrogate 4-Bromofluorobenzene	45.7		"	50.0		91.4	75-125			

Matrix Spike (EC71207-MS1)

Source: 7C09003-12

Prepared 03/12/07 Analyzed 03/13/07

Benzene	0.0803	0.00200	mg/kg dry	0.101	ND	79.5	80-120			M8
Toluene	0.0763	0.00200	"	0.101	ND	75.5	80-120			M8
Ethylbenzene	0.0675	0.00200	"	0.101	ND	66.8	80-120			M8
Xylene (p/m)	0.138	0.00200	"	0.202	ND	68.3	80-120			M8
Xylene (o)	0.0631	0.00200	"	0.101	ND	62.5	80-120			M8
Surrogate a,a,a-Trifluorotoluene	37.8		ug/kg	50.0		75.6	75-125			
Surrogate 4-Bromofluorobenzene	39.3		"	50.0		78.6	75-125			

Matrix Spike Dup (EC71207-MSD1)

Source: 7C09003-12

Prepared 03/12/07 Analyzed 03/13/07

Benzene	0.0787	0.00200	mg/kg dry	0.101	ND	77.9	80-120	2.03	20	M8
Toluene	0.0701	0.00200	"	0.101	ND	69.4	80-120	8.42	20	M8
Ethylbenzene	0.0692	0.00200	"	0.101	ND	68.5	80-120	2.51	20	M8
Xylene (p/m)	0.135	0.00200	"	0.202	ND	66.8	80-120	2.22	20	M8
Xylene (o)	0.0614	0.00200	"	0.101	ND	60.8	80-120	2.76	20	M8
Surrogate a,a,a-Trifluorotoluene	37.5		ug/kg	50.0		75.0	75-125			
Surrogate 4-Bromofluorobenzene	38.3		"	50.0		76.6	75-125			

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Project 101 Line to Judkins
Project Number EMS# 2006-026
Project Manager Camille Reynolds

Fax (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - 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 EC71206 - General Preparation (Prep)

Blank (EC71206-BLK1)				Prepared 03/09/07 Analyzed 03/12/07						
% Solids	100		%							
Duplicate (EC71206-DUP1)				Source: 7C09011-01 Prepared 03/09/07 Analyzed 03/12/07						
% Solids	91.2		%		91.0			0.220	20	
Duplicate (EC71206-DUP2)				Source: 7C09003-09 Prepared 03/09/07 Analyzed 03/12/07						
% Solids	99.6		%		99.9			0.301	20	

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Page 16 of 18

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1301 S County Road 1150
Midland TX, 79706-4476

Project 101 Line to Judkms
Project Number EMS# 2006-026
Project Manager Camille Reynolds

Fax (432) 687-4914

Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

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

M8 The MS and/or MSD were below the acceptance limits See Blank Spike (LCS)

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)

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: 3/14/2007

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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Page 17 of 18

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Midland TX, 79706-4476

Project 101 Line to Judkins
Project Number EMS# 2006-026
Project Manager Camille Reynolds

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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 18 of 18

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

Client: Talon LPE
 Date/ Time: 3/8/07 17:30
 Lab ID #: 7C09003
 Initials: DM

Sample Receipt Checklist

Client Initials

	Yes	No		Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/>	No	2.0 °C	
#2 Shipping container in good condition?	<input checked="" type="checkbox"/>	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?	<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

APPENDIX D

Photograph Documentation

TALON/LPE

Client: Plains All American
Location: E.K. Queen Trunk
Lea County, New Mexico

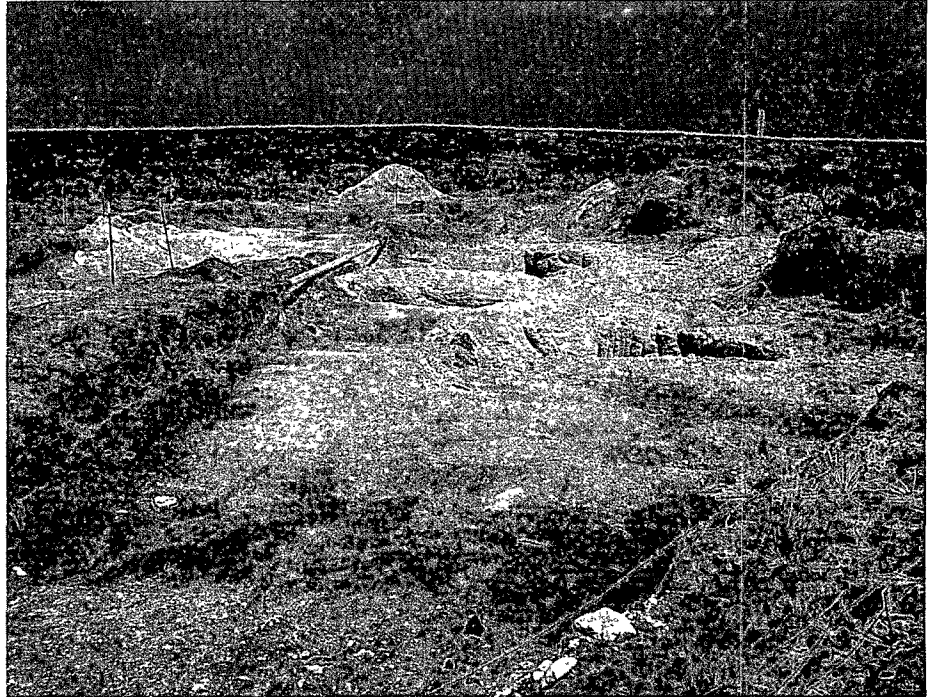
Photographic Documentation

Prepared by: Marc Stroope
Photographer: Marc Stroope
Project Number: PLAINS041SPL

Photograph No. 1

Direction: East

Description: View of excavation area.



Photograph No. 2

Direction: South

Description: View of excavation area.



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-1
Revised October 10, 2001

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on the 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 E.K. Queen 6 Inch Trunk line	Facility Type 6" Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.
-------------------	---------------	-----------

LOCATION OF RELEASE

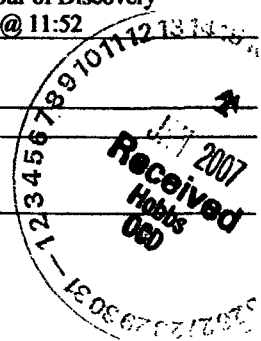
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	18S	34E					Lea

431

Latitude 32° 43' 44.1" Longitude 103° 36' 01.3"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 90 barrels	Volume Recovered 70 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 01/11/2007 @ 11:30	Date and Hour of Discovery 01/11/2007 @ 11:52
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 01/11/2007 @ 15:28	
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 of the 6 inch steel pipeline resulted in release of sweet crude oil. The line is 6 inch steel gathering line that produces approximately 433 barrels of oil per day. The pressure on the line is approximately 150 psi and the gravity of the sweet crude oil is 42. The sweet crude has an H₂S content of <10 ppm. The line is 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.

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.

OIL CONSERVATION DIVISION

Signature: <i>Camille Reynolds</i>	Approved by District Supervisor: <i>[Signature]</i>	
Printed Name: Camille Reynolds	Approval Date: 5-29-07	Expiration Date: 7-29-07
Title: Remediation Coordinator	Conditions of Approval:	
E-mail Address: cjreynolds@paalp.com	Attached <input type="checkbox"/>	
Date: 01/16/2007	Phone: 505-441-0965	

Submit Final Report by

* Attach Additional Sheets If Necessary

Facility - SPAC0715 031397,

RP # 1167