OK Close 11.7.05

NOV Received Hobbs OCD

7 November 2005

Mr. Larry Johnson,
Environmental Engineer Specialist
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, NM 88240

RE: Closure Report
Plains Pipeline Eunice Booster to Lea 6" Release Site (Ref. #2005-00133)
UL-L (NW¼ of the SW ¼) of Section 4, T21S, R36E
Latitude N 32° 30' 44.6" and Longitude W 103° 16' 37.5"

Dear Mr. Johnson:

On June 2, 2005, a release of approximately 8 barrels of crude oil occurred as a result of a transport line leak at the above-referenced site. Plains Pipeline recovered approximately 1.5 barrels of crude oil with a vacuum truck and utilized a backhoe to back drag the release area to abate any remaining fluid that could not be recovered. Plains Pipeline retained Environmental Plus, Inc. (EPI) in June 2005 to conduct remedial activities at the site. This letter report documents the results of the remediation and final closure activities.

Site Background

The site is located in the NW¼ of the SE¼ of Section 4, Township 21 South, Range 36 East at an elevation of approximately 3,550 feet above mean sea level (reference *Figures 1 and 2*). The property is owned by the State of New Mexico. A search for area water wells was completed utilizing the *New Mexico Office of the State Engineers* website and a database maintained by the United States Geological Survey (USGS). A total of 20 wells were found to be located either in Section 4 or one of the twelve adjacent sections (i.e., sections 4, 8, 9 and 10 of Township 21 South, Range 36 East and sections 26, 32, 34, 35 and 36 of Township 20 South, Range 36 East and sections 31, 33, and 35 of Township 20 South, Range 37 East). The average depth to water in these wells was reported to be approximately 118 feet below ground surface (bgs) (reference *Table 2*). No water supply wells or bodies of surface water were found to be located within a 1,000-foot radius of the release location (reference *Figure 2*). Based on available information it was determined that the distance between the contamination and groundwater was >100 feet. Utilizing this information, it was determined that the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this site were as follows:

Parameter	Remedial Goal
Benzene	10 parts per million
BTEX	50 parts per million
TPH	5,000 parts per million

ENVIRONMENTAL PLUS, INC.

Field Work

EPI was mobilized to the site on June 2, 2005 to excavate and stockpile hydrocarbon impacted soil. Vertical and horizontal extents of impacted soil were determined via field soil sample analyses as excavation activities progressed. The excavation would extend to a maximum depth of five feet below ground surface (bgs) and cover approximately 1,300 square feet. On June 19, 2005, upon completion of excavation activities, soil samples were collected from the excavation floor and sidewalls. A portion of each sample was placed in a self-sealing polyethylene bag. The remainder of each sample was placed in laboratory provided containers and immediately placed on ice for transport to Environmental Lab of Texas of Odessa, Texas, for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) as gasoline and diesel.

The portion of the samples placed in the self-sealing polyethylene bag to allow the volatilization of organic vapors for headspace analyses. After the samples had been allowed to equilibrate to ≈70° F, they were analyzed for the presence of organic vapors utilizing a MiniRae® photoionozation detector (PID) equipped with a 9.8 electron-volt (eV) lamp.

Field analyses indicated that organic vapor concentrations ranged from 0 to 0.9 ppm (reference *Table 1*).

Upon receipt of laboratory results confirming removal of impacted soil above NMOCD remedial thresholds, the excavation was backfilled with approximately 270 cubic yards of clean soil obtained from an off site source. Approximately 270 cubic yards of excavated, stockpiled soil impacted above NMOCD remedial thresholds was transported to the Lea Station Landfarm for treatment.

Analytical Data

Laboratory analytical results indicated that benzene concentrations in all samples were non-detectable at or below laboratory method detection limits (MDL). Reported BTEX concentrations ranged from non-detectable to 0.632 mg/Kg, below NMOCD remedial threshold of 50 mg/Kg. Analytical results indicated TPH concentrations ranged from non-detectable to 2,430 mg/Kg, below NMOCD remedial threshold of 5,000 mg/Kg (reference *Table 1* and *Figure 3*).

Conclusions

Based on field and analytical analyses, soil impacted above the NMOCD remedial thresholds has been excavated from the release area. The excavation compromised an area of approximately 1,300 square feet to a maximum depth of five feet bgs. Approximately 266 cubic yards of excavated, hydrocarbon impacted soil was transported to the State of New Mexico approved Lea Station Landfarm for treatment. An equivalent amount of clean soil was purchased from the State of New Mexico and hauled to the site. Final remedial activities included backfilling the excavation with clean soil, grading and contouring the site to allow for natural drainage. The remaining remedial activity of seeding the area with a SLO approved seed mixture will be performed upon closure of the site by the NMOCD.

Recommendations

EPI, on behalf of Plains Marketing, L.P., recommends the site be closed and request no further action be required except for seeding with a blend approved by the State Land Office. In addition, Plains All American Pipeline, L.P., requests that a "no further action" letter be issued. Should you have any questions or concerns, please feel free to contact me at (505) 394-3481 or via e-mail at iolness@envplus.net. All official correspondence should be submitted to Camille Reynolds at:

Camille Reynolds, Remediation Coordinator
Plains Pipeline
3112 West Highway 82
Lovington, NM 88260

(505) 396-3341
cjreynolds@paalp.com

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain A. Olness, P.G.
Hydrogeologist

cc: Camille Reynolds, Plains Pipeline – Hobbs
Jeff Dann, Plains Pipeline – Houston
Myra Meyers, New Mexico State Land Office – Hobbs
Cody Morrow, New Mexico State Land Office – Sante Fe
File

encl. Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site Map
Table 1 – Summary of Soil Sample Analytical Results
Table 2 – Well Data
Attachment I – Laboratory Results and Chain-of-Custody Form
Attachment II – Copy of Final C-141

FIGURES

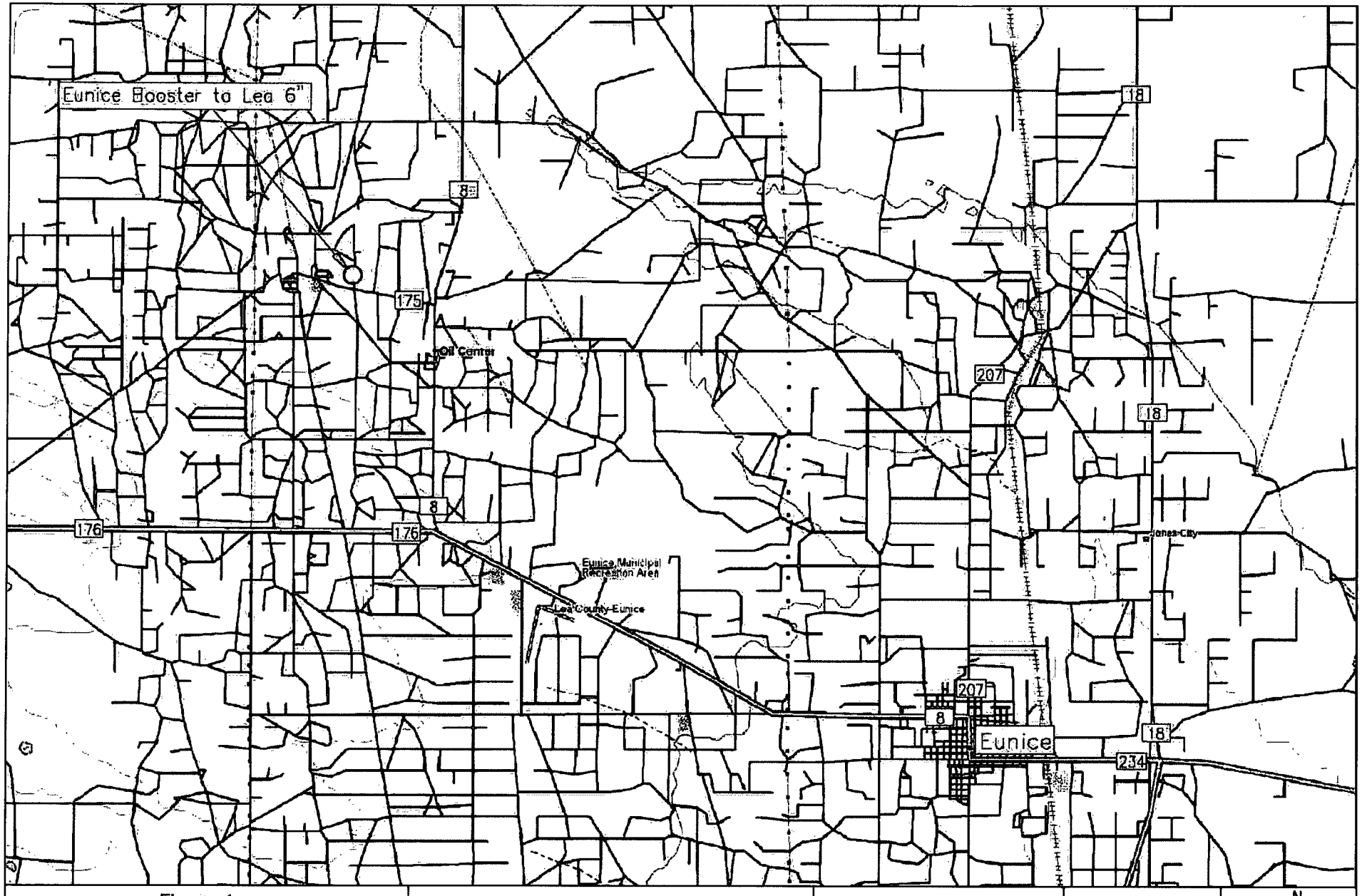

Figure 1
Area Map
Plains All American Pipeline
Eunice Booster to Lea 6"
Ref. #2005-00133

Lea County, New Mexico
NW 1/4 of the SW 1/4, Sec. 4, T21S, R36E
N 32 ° 30' 44.8" W 103° 16' 37.6"
Elevation: 3,656 feet amsl

DWG By: Iain Olness
July 2005

REVISED:
JCS, Sept. 2005

0 1.5 3.0
Miles

SHEET
1 of 1

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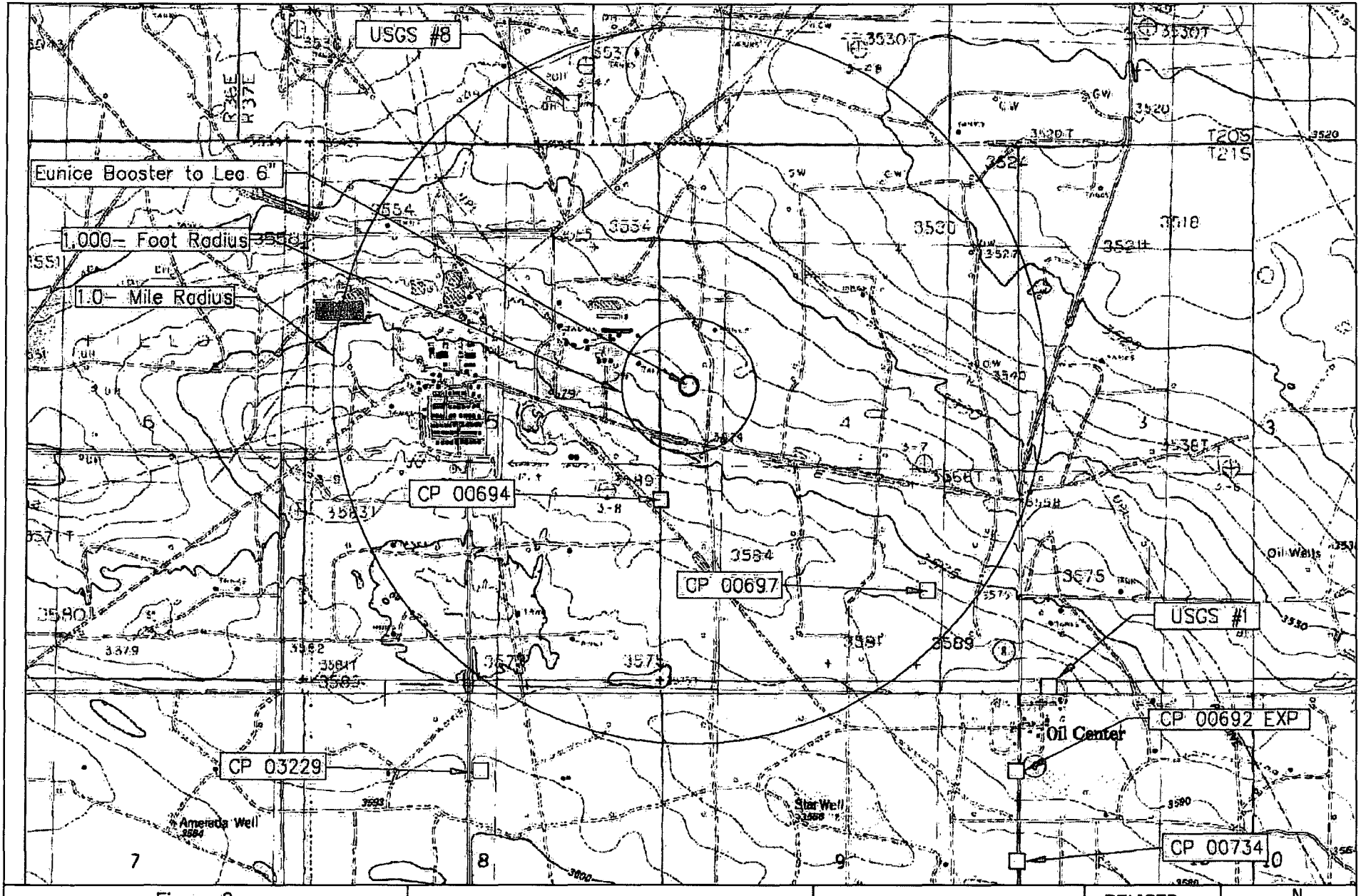

Figure 2
Site and Well Location Map
Plains All American Pipeline
Eunice Booster to Lea 6"
Ref. # 2005-00135

Lea County, New Mexico
NW 1/4 of the SW 1/4, Sec. 4, T21S, R36E
N 32 ° 30' 44.8" W 103° 16' 37.6"
Elevation: 3,565 feet amsl

DWG By: Jason Stegemoller
September 2005

REVISED:

0 2,000 4,000
Feet

SHEET
1 of 1

N

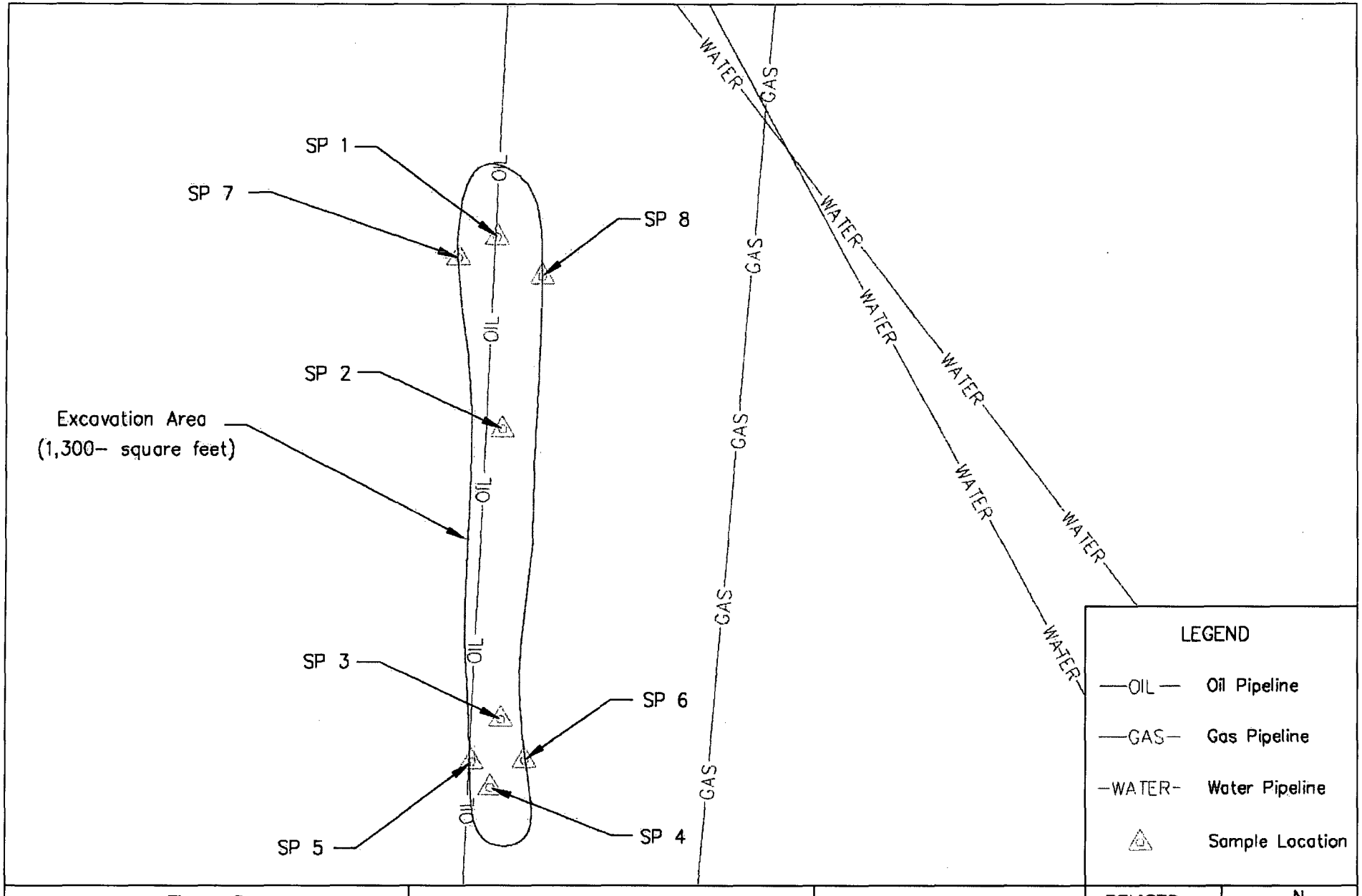

Figure 3 Site Map Plains All American Pipeline Eunice Booster to Lea 6" Ref. #2005–00133	Lea County, New Mexico NW 1/4 of the SW 1/4, Sec. 4, T21S, R36E N 32 ° 30' 44.8" W 103 ° 16' 37.6" Elevation: 3,565 feet amsl	DWG By: Jason Stegemoller September 2005 0 35 70 Feet	REVISED: SHEET 1 of 1

TABLES

TABLE 1

Summary of Excavation Soil Sample Laboratory Analytical Results

Plains All American Pipeline- Eunice Booster to Lea 6" (Ref. #2005-00133)

Soil Sample I.D.	Depth (feet)	Sample Date	PID Reading (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
SP 1	5	06/17/05	0	<0.0250	<0.0250	<0.0250	0.0789	0.0789	21.0	270	291
SP 2	5	06/17/05	0	<0.0250	<0.0250	<0.0250	0.0677	0.07	90.8	1,510	1,600
SP 3	5	06/17/05	0	<0.0250	0.0588	0.0746	0.499	0.632	<10.0	162	162
SP 4	5	06/17/05	0	<0.0250	<0.0250	0.0138	0.241	0.255	<10.0	<10.0	<10.0
SP 5	3	06/17/05	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	47.2	47.2
SP 6	3	06/17/05	0.2	<0.0250	<0.0250	<0.0250	0.0839	0.084	<10.0	<10.0	<10.0
SP 7	3	06/17/05	0.1	<0.0250	<0.0250	<0.0250	0.0283	0.0283	147	1,790	1,940
SP 8	3	06/17/05	0.1	<0.0250	<0.0250	0.0360	0.127	0.163	167	2,260	2,430
Stockpile	3	06/17/05	0.9	<0.0250	0.0614	0.0261	0.242	0.330	91.6	1,410	1,500
NMOCD Remedial Thresholds			**100**	**10**				**50**			**5,000**

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

[2] *NA=Not Analyzed*

TABLE 2

WELL / SURFACE DATA REPORT*

Plains All American Pipeline- Eunice Booster to Lea - 6" (Ref #2005-00133)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation[B]	Depth to Water (ft bgs)
CP 00694	0	Chevron U.S.A. Inc.	SRO	21 S	36 E	04 1	N 32° 30' 28.08"	W 103° 16' 42.46"			
CP 00697	0	Chevron U.S.A. Inc.	SRO	21 S	36 E	04 4 2 3	N 32° 30' 14.93"	W 103° 15' 56.01"			
C 03229	3	Doug Crigger	DOM	21 S	36E	08 2 1	N 32° 29' 48.86"	W 103° 17' 13.24"			
CP 00692 EXP	0	W. L. Van Noy	DOM	21 S	36 E	10 1 1 3	N 32° 29' 48.76"	W 103° 15' 40.54"			
CP 00734	3	W. L. Van Noy	DOM	21 S	36 E	10 1	N 32° 29' 35.71"	W 103° 15' 40.54"	22-Jun-88	3,585	200
CP 00696	0	Chevron U.S.A. Inc.	SRO	21 S	36 E	09 3 1 1	N 32° 29' 22.78"	W 103° 16' 42.39"			
CP 00695	0	Chevron U.S.A. Inc.	SRO	21 S	36 E	09 4 2 4	N 32° 29' 22.69"	W 103° 15' 56"			
L 02540	3	Ameranda Petroleum Corp.	PRO	20 S	36 E	34 2 4 3	N 32° 31' 46.07"	W 103° 20' 14.89"			
L 02552	3	Amerda Petroleum Corp.	PRO	20 S	36 E	34 2 4	N 32° 31' 46.07"	W 103° 20' 14.89"			
L 07108 EXP	0	Northern Natural Gas	SAN	20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"		3,520	
L 07355	3	Northern Natural Gas	SAN	20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"	4-Jul-75	3,530	120
L 08157	3	Northern Natural Gas	SAN	20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"	8-Oct-79	3,530	275
USGS #1				21 S	36 E	09 2 2 2	N 32° 30' 01"	W 103° 15' 35"	28-Feb-96	3,590	200
USGS #2				20 S	36 E	35 2 4 4	N 32° 31' 26"	W 103° 18' 58"	7-Feb-96	3,545	122
USGS #3				20 S	36 E	26 2 4 3	N 32° 32' 19"	W 103° 19' 06"	7-Feb-96	3,555	106
USGS #4				20 S	36 E	32 1 1 3			7-Feb-96		167
USGS #5				20 S	36 E	35 2 4 4			7-Feb-96		122
USGS #6				20 S	36 E	36 1 3 4			7-Feb-96		114
USGS #7				20 S	37 E	31 3 2 2			15-Jan-71		79
USGS #8				20 S	37 E	31 4 4 4			1-Mar-61		36
USGS #9				20 S	37 E	35 4 1 2			4-Feb-76		70
USGS #10				20 S	37 E	35 4 1 4			23-Jan-96		52
USGS #11				20 S	37 E	35 4 2 3			4-Feb-76		52
USGS #12				20 S	37 E	35 4 3 2			7-Jul-77		59

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) and the United States Geological Survey Website (http://waterdata.usgs.gov/nwis/gwsi?introduction).

Shaded well information indicates well location shown on Figure 2

[A] = in acre feet per annum

[B] = Elevation interpolated from USGS topographical map based on referenced location.

DOM = Domestic, one household

SRO = Secondary recovery of oil

PRO = Prospecting or development of natural resources

EXP = Expired

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

ATTACHMENT I

LABORATORY RESULTS
AND
CHAIN-OF-CUSTODY FORM

ENVIRONMENTAL LAB OF

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: Eunice Booster to Lea 6"

Project Number: 2005-00133

Location: None Given

Lab Order Number: 5F22012

Report Date: 06/28/05

Plains All American EH & S	Project: Eunice Booster to Lea 6"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2005-00133	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/28/05 08:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	5F22012-01	Soil	06/17/05 07:15	06/22/05 15:00
SP-2	5F22012-02	Soil	06/17/05 07:30	06/22/05 15:00
SP-3	5F22012-03	Soil	06/17/05 07:45	06/22/05 15:00
SP-4	5F22012-04	Soil	06/17/05 08:00	06/22/05 15:00
SP-5	5F22012-05	Soil	06/17/05 08:15	06/22/05 15:00
SP-6	5F22012-06	Soil	06/17/05 08:30	06/22/05 15:00
SP-7	5F22012-07	Soil	06/17/05 08:45	06/22/05 15:00
SP-8	5F22012-08	Soil	06/17/05 09:00	06/22/05 15:00
Stockpile	5F22012-09	Soil	06/17/05 09:15	06/22/05 15:00

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (5F22012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/22/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0789**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**21.0**	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**270**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**291**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
SP-2 (5F22012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/22/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0677**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**90.8**	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1510**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1600**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*147 %*	*70-130*		"	"	"	"	*S-04*
SP-3 (5F22012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	**0.0588**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0746**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.367**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.132**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**162**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**162**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (5F22012-03) Soil									
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		*EF52208*	*06/22/05*	*06/23/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
SP-4 (5F22012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	**J [0.0112]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0138**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.184**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0574**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
SP-5 (5F22012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**47.2**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**47.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (5F22012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0549**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0290**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*75.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.0 %*	*70-130*		"	"	"	"	
SP-7 (5F22012-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0164]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0283**	0.0250	"	"	"	"	"	"	
Xylene (o)	**J [0.0216]**	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*80.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**147**	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1790**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1940**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*157 %*	*70-130*		"	"	"	"	*S-04*
SP-8 (5F22012-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	**J [0.0136]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0360**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0884**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0387**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**167**	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2260**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2430**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-8 (5F22012-08) Soil									
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		*EF52208*	*06/22/05*	*06/23/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*163 %*	*70-130*		"	"	"	"	*S-04*
Stockpile (5F22012-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF52222	06/22/05	06/23/05	EPA 8021B	
Toluene	**0.0614**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0261**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.192**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0501**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**91.6**	10.0	mg/kg dry	1	EF52208	06/22/05	06/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1410**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1500**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*155 %*	*70-130*		"	"	"	"	*S-04*

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (5F22012-01) Soil									
% Moisture	**10.0**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-2 (5F22012-02) Soil									
% Moisture	**6.6**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-3 (5F22012-03) Soil									
% Moisture	**8.8**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-4 (5F22012-04) Soil									
% Moisture	**1.6**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-5 (5F22012-05) Soil									
% Moisture	**2.2**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-6 (5F22012-06) Soil									
% Moisture	**1.6**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-7 (5F22012-07) Soil									
% Moisture	**4.5**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
SP-8 (5F22012-08) Soil									
% Moisture	**5.6**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	
Stockpile (5F22012-09) Soil									
% Moisture	**7.8**	0.1	%	1	EF52307	06/22/05	06/23/05	% calculation	

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 EF52208 - Solvent Extraction (GC)										
Blank (EF52208-BLK1)				Prepared & Analyzed: 06/22/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.3*		*mg/kg*	*50.0*		*80.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.8*		*"*	*50.0*		*93.6*	*70-130*			
LCS (EF52208-BS1)				Prepared & Analyzed: 06/22/05						
Gasoline Range Organics C6-C12	462	10.0	mg/kg wet	500		92.4	75-125			
Diesel Range Organics >C12-C35	418	10.0	"	500		83.6	75-125			
Total Hydrocarbon C6-C35	880	10.0	"	1000		88.0	75-125			
Surrogate: 1-Chlorooctane	*45.9*		*mg/kg*	*50.0*		*91.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.8*		*"*	*50.0*		*93.6*	*70-130*			
Calibration Check (EF52208-CCV1)				Prepared: 06/22/05 Analyzed: 06/23/05						
Gasoline Range Organics C6-C12	448		mg/kg	500		89.6	80-120			
Diesel Range Organics >C12-C35	546		"	500		109	80-120			
Total Hydrocarbon C6-C35	994		"	1000		99.4	80-120			
Surrogate: 1-Chlorooctane	*61.3*		*"*	*50.0*		*123*	*70-130*			
Surrogate: 1-Chlorooctadecane	*62.7*		*"*	*50.0*		*125*	*70-130*			
Matrix Spike (EF52208-MS1)	**Source: 5F22010-01**			Prepared & Analyzed: 06/22/05						
Gasoline Range Organics C6-C12	521	10.0	mg/kg dry	514	ND	101	75-125			
Diesel Range Organics >C12-C35	511	10.0	"	514	29.8	93.6	75-125			
Total Hydrocarbon C6-C35	1030	10.0	"	1030	29.8	97.1	75-125			
Surrogate: 1-Chlorooctane	*63.7*		*mg/kg*	*50.0*		*127*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.9*		*"*	*50.0*		*130*	*70-130*			
Matrix Spike Dup (EF52208-MSD1)	**Source: 5F22010-01**			Prepared: 06/22/05 Analyzed: 06/23/05						
Gasoline Range Organics C6-C12	533	10.0	mg/kg dry	514	ND	104	75-125	2.28	20	
Diesel Range Organics >C12-C35	523	10.0	"	514	29.8	96.0	75-125	2.32	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1030	29.8	100	75-125	2.87	20	
Surrogate: 1-Chlorooctane	*56.0*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*65.0*		*"*	*50.0*		*130*	*70-130*			

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 EF52222 - EPA 5030C (GC)										
Blank (EF52222-BLK1)				Prepared & Analyzed: 06/22/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*86.4*		*ug/kg*	*100*		*86.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.8*		"	*100*		*95.8*	*80-120*			
LCS (EF52222-BS1)				Prepared & Analyzed: 06/22/05						
Benzene	90.4		ug/kg	100		90.4	80-120			
Toluene	96.9		"	100		96.9	80-120			
Ethylbenzene	94.8		"	100		94.8	80-120			
Xylene (p/m)	212		"	200		106	80-120			
Xylene (o)	100		"	100		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*103*		*"*	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		*"*	*100*		*113*	*80-120*			
Calibration Check (EF52222-CCV1)				Prepared: 06/22/05 Analyzed: 06/23/05						
Benzene	84.9		ug/kg	100		84.9	80-120			
Toluene	90.6		"	100		90.6	80-120			
Ethylbenzene	87.3		"	100		87.3	80-120			
Xylene (p/m)	187		"	200		93.5	80-120			
Xylene (o)	84.9		"	100		84.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	*96.4*		*"*	*100*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*80-120*			
Matrix Spike (EF52222-MS1)	**Source: 5F22013-01**			Prepared: 06/22/05 Analyzed: 06/23/05						
Benzene	86.9		ug/kg	100	ND	86.9	80-120			
Toluene	96.1		"	100	ND	96.1	80-120			
Ethylbenzene	92.8		"	100	ND	92.8	80-120			
Xylene (p/m)	199		"	200	ND	99.5	80-120			
Xylene (o)	86.5		"	100	ND	86.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*98.4*		*"*	*100*		*98.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		*"*	*100*		*110*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF52222 - EPA 5030C (GC)										
Matrix Spike Dup (EF52222-MSD1)	**Source: 5F22013-01**			Prepared: 06/22/05 Analyzed: 06/23/05						
Benzene	83.0		ug/kg	100	ND	83.0	80-120	4.59	20	
Toluene	90.1		"	100	ND	90.1	80-120	6.44	20	
Ethylbenzene	88.1		"	100	ND	88.1	80-120	5.20	20	
Xylene (p/m)	177		"	200	ND	88.5	80-120	11.7	20	
Xylene (o)	90.1		"	100	ND	90.1	80-120	4.08	20	
Surrogate: a,a,a-Trifluorotoluene	*86.0*		"	*100*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*		"	*100*		*111*	*80-120*			

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
Batch EF52307 - General Preparation (Prep)										
Blank (EF52307-BLK1)				Prepared: 06/22/05 Analyzed: 06/23/05						
% Moisture	ND	0.1	%							
Duplicate (EF52307-DUP1)	**Source: 5F21019-01**			Prepared: 06/22/05 Analyzed: 06/23/05						
% Moisture	0.8	0.1	%		0.9			11.8	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: Raland K Tuttle Date: 6/28/2005

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.

Environmental Labs of Texas

Chain of Custody Form

12600 West I-20 East, Odessa, TX 79763
(915) 563-1800 FAX: (915) 563-1713

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Eunice Booster to Lea - 6"
Project Reference	2005-00133
EPI Sampler Name	Cody Fisher

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

LAB I.D. SF22012	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{2-})	pH	TCLP	OTHER >>>	PAH			
-01	1 SP-1	G	1			X					X		17-Jun-05	7:15	X	X									
-02	2 SP-2	G	1			X					X		17-Jun-05	7:30	X	X									
-03	3 SP-3	G	1			X					X		17-Jun-05	7:45	X	X									
-04	4 SP-4	G	1			X					X		17-Jun-05	8:00	X	X									
-05	5 SP-5	G	1			X					X		17-Jun-05	8:15	X	X									
-06	6 SP-6	G	1			X					X		17-Jun-05	8:30	X	X									
-07	7 SP-7	G	1			X					X		17-Jun-05	8:45	X	X									
-08	8 SP-8	G	1			X					X		17-Jun-05	9:00	X	X									
-09	9 Stockpile	C	1			X					X		17-Jun-05	9:15	X	X									
	10																								

Sampler Relinquished: Cody Fisher — Date: 6-22-05 Time: 0700 — Received By: Jason Boone

Relinquished by: Jason Boone — Date: 6.22 Time: 1500 — Received By: (lab staff) Cheri Kelly 6/22/05 3:00

Delivered by:

Sample Cool & Intact: Yes (No) — Checked By:

E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com

REMARKS:

4oz jar w/ labels

Variance / Corrective Action Report – Sample Log-In

Client: Environmental Plus / Plains

Date/Time: 6/22/05 3:00

Order #: 5F2202R

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

ATTACHMENT II

COPY OF FINAL 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 Marketing, L.P.	Contact: Camille Reynolds
Address: 3112 W. Hwy 82, Lovington, New Mexico 88260	Telephone No.: 505-396-3341
Facility Name: Eunice Booster to Lea 6" (Ref. #2005-~~10797~~ 00133)	Facility Type: 6" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
State of New Mexico		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
L	4	21S	36E					Lat.: 32° 30' 44.6"N Lon:103° 16' 37.5"W

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 8 bbls	Volume Recovered: 1.5 bbls
Source of Release: 6" Steel Pipeline	Date and Hour of Occurrence: 06-02-2005 @ 13:00	Date and Hour of Discovery: 06-02-2005 @ 13:58
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Buddy Hill	
By Whom? Camille Reynolds, Plains Marketing, L.P.	Date and Hour: 06-02-2005 @ 16:27	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
External corrosion of the 6" steel pipeline. A line repair clamp was installed to mitigate the release. The line is a 6 inch steel transmission line used to transport approximately 1,100 to 1,200 barrels of crude oil per day. The pressure on the line varies from 40 to 45 psi and the gravity of the sour crude oil is 36-37. The sour crude has an H_2S content of approximately 16 ppm.

Describe Area Affected and Cleanup Action Taken.*
Approximately 1.5 bbls were recovered with a vacuum truck. Approximately 270 cubic yards of hydrocarbon impacted soil were excavated from a 1,300 square foot excavation to a depth of five feet below ground surface and transported to the Lea Station Landfarm for treatment. Approximately 270 cubic yards of clean soil was purchased from the State of New Mexico and utilized to backfill the excavation. The NMOCD remedial thresholds for the site were 10 mg/Kg for benzene, 50 mg/Kg for BTEX, and 5,000 mg/Kg for TPH.

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: Camille Reynolds	**OIL CONSERVATION DIVISION**
Printed Name: Camille Reynolds	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
Date: / Phone: 505-396-3341	Conditions of Approval: / Attached ☐

* Attach Additional Sheets If Necessary