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PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION/CLOSURE PLAN

PLAINS MARKETING, L.P. (231735)

CVU 6-Inch # 1 & 2 Site

Lea County, New Mexico

Plains EMS # 2005-00177

UNIT N (SE/SW), Section 31, Township 17S, Range 35E

Latitude 32°, 47', 17.6" North, Longitude 103°, 29', 49.6" West

Prepared For:

Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002



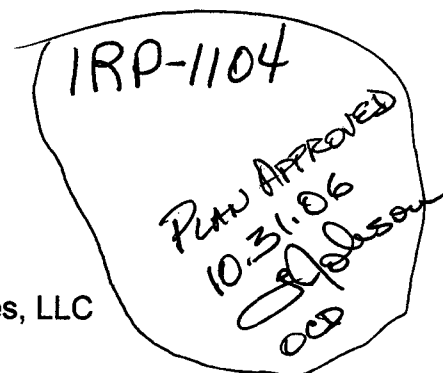
Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

26 September 2006


Ken Dutton

Basin Environmental Service Technologies, LLC



Facility - PPAC0631345979
Incident - nPPAC0631346110
Application - pPPAC0631346216

RP#1104

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to two (2) pipeline releases for Plains Marketing, L.P. (Plains), located on the CVU 6-Inch Pipeline on 20 and 21 July 2005. The CVU 6-Inch Pipeline was clamped on both the 20 and 21 July 2005 emergency responses and the impacted soil was excavated and stockpiled on a 6-mil poly-liner adjacent to the excavation. The CVU 6-Inch right-of-way is located on land owned by the state of New Mexico and administered by the New Mexico State Land Office (SLO). Permanent repairs were conducted by Plains at a later date.

This site is located in Unit N (SE/SW), Section 31, Township 17 South, Range 35 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32° 47' 17.6" North and the site longitude is 103° 29' 49.6" West. The site is characterized by a right-of-way for the pipeline in a pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 65 feet long by 35 feet wide. An estimated 10 barrels of crude oil were released from the CVU 6-Inch Pipeline and 0 barrels were recovered during the 20 July 2005 release and an estimated 45 barrels of crude oil were released and 40 barrels recovered during the 21 July 2005 release.

An emergency one-call was initiated 20 July 2005 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Ms Myra Meyers, SLO, Hobbs, New Mexico Office, was verbally notified 20 and 21 July 2005. Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District I was verbally notified of the releases on 20 and 21 July 2005. Two (2) NMOCD C-141s were prepared and delivered to Mr. Larry Johnson on 22 July 2005.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed the average depth to groundwater to be 106 feet bgs for that section, township and range. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of 10–19, which sets the remediation levels at:

Benzene:	10 ppm
BTEX:	50 ppm
TPH:	1000 ppm

SUMMARY OF FIELD ACTIVITIES

On 20 July 2005, Basin mobilized to the CVU 6-Inch Pipeline release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After the crude oil release had been contained utilizing a pipeline repair clamp, excavation of the impacted soil was accomplished (see Figure 2, Excavation Site Map & Soil Boring Locations). The release point and visually stained area was initially excavated to approximately 65 feet long by 35 feet wide and ranged in depth from approximately 1 to 3 feet below ground surface (bgs). The excavated soil was placed on a 6-mil poly liner for future remedial action adjacent to the excavation. Approximately 200 cubic yards of impacted soil was stockpiled adjacent to the site. Upon arriving at the CVU 6-Inch Pipeline release site on 21 July 2005, Basin discovered a subsequent crude oil release. Plains operations personnel were notified and Basin under the direction of Plains operations personnel contained and repaired the pipeline release utilizing a pipeline repair clamp. Continued excavation of the impacted soil was accomplished and placed on the existing 6-mil poly liner adjacent to the excavation. The release point and visually stained area was excavated to depths ranging from 3 to 5 feet bgs and approximately 50 cubic yards of impacted soil was excavated for a total of approximately 250 cubic yards.

On 20 September 2005, Basin initiated vertical and horizontal delineation of the crude oil impacted site. Five (5) soil borings were installed at the release point, up gradient, down gradient and cross gradient positions to evaluate the full extent of crude oil impact. The five (5) soil borings were installed to depths ranging from approximately 15 to 40 feet bgs and soil samples were collected at 5 feet intervals. The selected soil samples were analyzed for constituent concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results indicated that detectable BTEX and TPH-GRO/DRO concentrations were either not detected above laboratory method detection limits or below NMOCD regulatory standards, with the exception of Soil Boring 1 at 10 feet bgs (TPH-GRO/DRO was 1050 mg/kg), which slightly exceeded NMOCD regulatory standards for TPH-GRO/DRO; however, the soil sample was within the laboratory method margin-of-error limits.

On 01 June 2006, five (5) confirmation soil samples were collected from the floor and walls of the excavated area. The five (5) confirmation soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results of the confirmation soil samples collected from the floor and walls of the excavation indicated that TPH-GRO/DRO and BTEX concentrations were either not detected above laboratory method detection limits or were below NMOCD regulatory standards with the exception of the east ramp wall and west wall which exceeded NMOCD regulatory standards for TPH-GRO/DRO concentrations. Soil sampling results are attached as Table 1, Soil Chemistry Table (Soil Borings & Excavation Results)

DISTRIBUTION OF HYDROCARBONS IN THE USATURATED ZONE

The release point and visually stained area were excavated to approximately 65 feet long and 35 feet wide and ranged in depth from approximately 3 to 5 feet bgs resulting from the two (2) crude oil releases. Photoionization Detector (PID) readings and laboratory results following the initial excavation activities indicated elevated concentrations of Volatile Organic Compounds (VOC) remain on the west and east walls of the excavation. Approximately 250 cubic yards of impacted soil was excavated and stockpiled on a 6-mil poly-liner adjacent to the excavation.

On 20 February 2006, Basin installed five (5) soil borings utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas, to evaluate the vertical and horizontal extent of crude oil impact at the up gradient, down gradient and cross gradient positions of the excavation. The five (5) soil borings were installed at depths ranging from approximately 15 to 40 feet bgs. Subsurface soil samples were collected at 5 feet intervals and field screened with a PID. Soil boring logs are included in Appendix C. No visual observations of free phase hydrocarbons were encountered during the installation of the soil borings. The selected soil samples were analyzed for concentrations of BTEX and TPH-GRO/DRO. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Soil Boring 1, as depicted on the Excavation Site Map & Soil Boring Locations (Figure 2), was installed at the release point position. Soil samples collected at 5, 10, 15, 25 and 35 feet bgs sample depths were submitted for analysis. Analytical results indicated that BTEX constituent concentrations were not detected above laboratory method detection limits for the five (5) soil samples. Analytical results indicated that TPH-GRO/DRO constituent concentrations were below NMOCD regulatory standards for the 5 feet bgs sample and were not detected above laboratory method detection limits for the 15, 25 and 35 feet bgs soil samples. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO exceeded NMOCD standards for the 10 feet bgs soil sample (TPH-GRO/DRO was 1050 mg/kg); however, the soil sample was within the laboratory method margin-of-error limits.

Soil Boring 2 was installed at surface level in the down gradient position. Soil samples collected at 5 and 15 feet bgs sample depths were submitted for analysis. Analytical results indicated that BTEX and TPH-GRO/DRO constituent concentrations were not detected above laboratory method detection limits for the two (2) soil samples.

Soil Boring 3 was installed at surface level at the cross gradient position. Soil samples collected at 5 and 15 feet bgs sample depths were submitted for analysis. Analytical results indicated that BTEX and TPH-GRO/DRO constituent concentrations were not detected above laboratory method detection limits for the two (2) soil samples; with the exception of the 15 feet soil sample, which had detectable BTEX concentrations, but were below NMOCD regulatory standards.

Soil Boring 4 was installed at surface level at the up gradient position. Soil samples collected at 5 and 15 feet bgs sample depths were submitted for analysis. Analytical results indicated that BTEX and TPH-GRO/DRO constituent concentrations were not detected above laboratory method detection limits for the two (2) soil samples; with the exception of the 15 feet soil sample, which had detectable TPH-GRO/DRO concentrations, but were below NMOCD regulatory standards.

Soil Boring 5 was installed at surface level at the cross gradient position. Soil samples collected at 5, 15 and 25 feet bgs sample depths were submitted for analysis. Analytical results indicated that BTEX constituent concentrations were not detected above laboratory method detection limits for the 5 and 15 feet bgs soil sample and the 15 feet bgs soil sample, which had detectable BTEX concentrations, were below NMOCD regulatory standards. Analytical results indicated that TPH-GRO/DRO constituent concentrations were detected in the three (3) soil samples, but were below NMOCD regulatory standards.

On 01 June 2006, five (5) confirmation soil samples were collected from the floor and walls of the excavated area ranging in depth from 2 to 5 feet bgs (see Figure 3). The five (5) confirmation soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results of the confirmation soil samples collected from the floor and walls of the excavation indicated that BTEX and TPH-GRO/DRO concentrations were either not detected above laboratory method detection limits or were below NMOCD regulatory standards with the exception of the east ramp and west wall which exceeded NMOCD regulatory standards for TPH-GRO/DRO concentrations at 2,220 mg/kg and 3210 mg/kg, respectively.

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

On 13 June 2006, Plains and Basin representatives met with Mr. Larry Johnson, NMOCD, and discussed the safety concerns of excavating the west wall due to the numerous Chevron-Texaco subsurface high-pressure gas injection poly lines. Although Chevron-Texaco responded to the emergency one-call and subsequent renewal one-calls, the exact locations of the high-pressure gas injection poly lines were questionable. Plains and Basin proposed to Mr. Johnson and he approved to excavate the west wall area approximately four (4) to five (5) feet to the west and cease excavation activities due to the presence of the high-pressure gas injection poly lines.

Approximately 250 cubic yards of impacted soil has been excavated and stockpiled on-site resulting from the emergency responses and excavation of the release point and flow path. Based on the excavation analytical results and five (5) vertical and horizontal delineation soil borings, which indicates the crude oil impact is contained in a limited area of the release point, Plains proposes to excavate the west wall area approximately four (4) to five (5) feet to the west and cease excavation activities as agreed upon by NMOCD. The east wall area will be excavated and a confirmation

soil sample will be collected to ensure NMOCD regulatory standards are adhered to. The excavated impacted soils will be transported to the Plains Lea Station Land Farm (LSLF) and clean soil will be transported and utilized as backfill material. Further excavation of the excavation floor area is not required as the SB-1 fifteen (15) feet bgs soil sample, which slightly exceeds NMOCD regulatory standards; however, the soil sample is within the margin-of-error laboratory reporting limits.

A request for closure will be submitted to the Hobbs District I office, upon completion of backfilling activities. Based on the results of the remediation activities conducted, Plains requests approval from the OCD and SLO to implement these proposed final remediation and site closure activities.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination Of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox® detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by

certain individuals. Basin Environmental Service Technologies, LLC, 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 Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, 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 Marketing, L.P. 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 Environmental Service Technologies, LLC, and Plains Marketing, L.P.

DISTRIBUTION

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Thaddeus.kostrubala@slo.state.nm.us

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Larry.johnson@state.nm.us

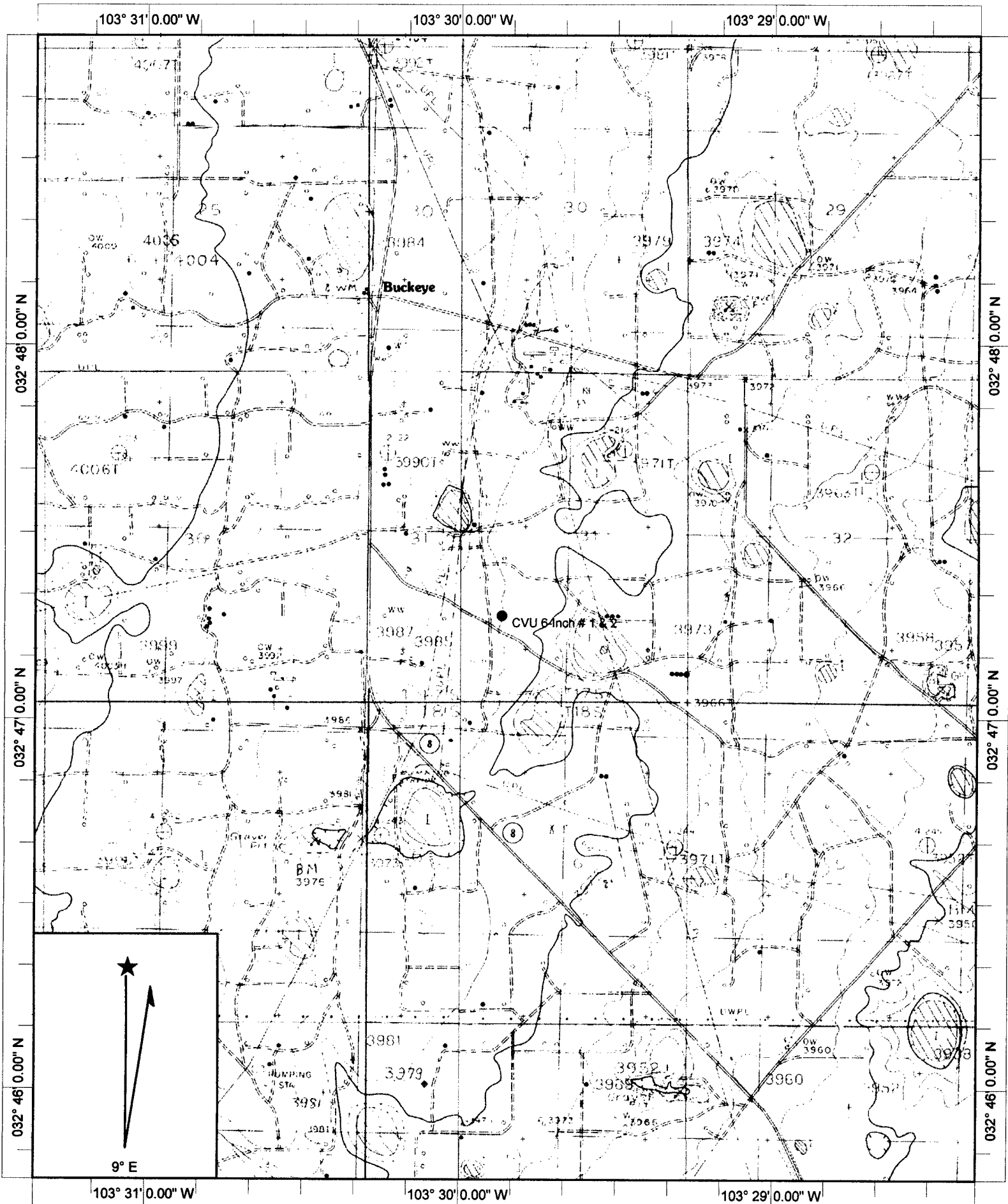
Copy 5: Basin Environmental Service Technologies LLC
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kdupton@basinenv.com

Copy 4

SOIL CHEMISTRY

PLAINS MARKETING, L.P.
CVU 6-INCH
LEA COUNTY, NEW MEXICO
EMS: 2005-00177

[illegible]



Name: LOVINGTON SW
Date: 10/7/2006
Scale: 1 inch equals 2000 feet

Location: 032° 47' 17.76" N 103° 29' 51.5" W
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
CVU 6-Inch # 1_2



65 Feet Long

35 Feet Wide

CVU 6-Inch Pipeline

Exc Flr
5 feet
bgs

Release
Point

Ramp

Ramp

SB-5

SB-1

SB-3

SB-2

Legend

● Soil Boring Location

Chevron-Texaco
C02 Header

TITLE

Figure 2
Excavation Site Map & Soil Boring
Locations

DESCRIPTION

Plains Marketing, L.P.
CVU 6" #2 Release Site
SE/SW S32, T17S, R35E
Lea County, New Mexico
EMS: 2005-00177

DRAWN BY

Basin Environmental Services
kad



65 Feet Long

35 Feet Wide

CVU 6-Inch Pipeline

SB-4

N. Wall
BTEX: <0.025
TPH: 174

Exc Flr
5 feet
bgs

Exc Flr
BTEX: <0.025
TPH: 409

Release
Point

E. Ramp
BTEX: <0.025
TPH: 2220

S. Wall
BTEX: <0.025
TPH: 484

SB-2

W. Wall
BTEX: <0.025
TPH: 3210

SB-5

SB-1

SB-3

Proposed
Excavated
Area

Proposed
Excavated
Area

Ramp

Ramp

Legend

- Soil Boring Location
- Sampling Location

Chevron-Texaco
C02 Header

TITLE

Figure 3
Soil Sampling & Soil Boring
Locations

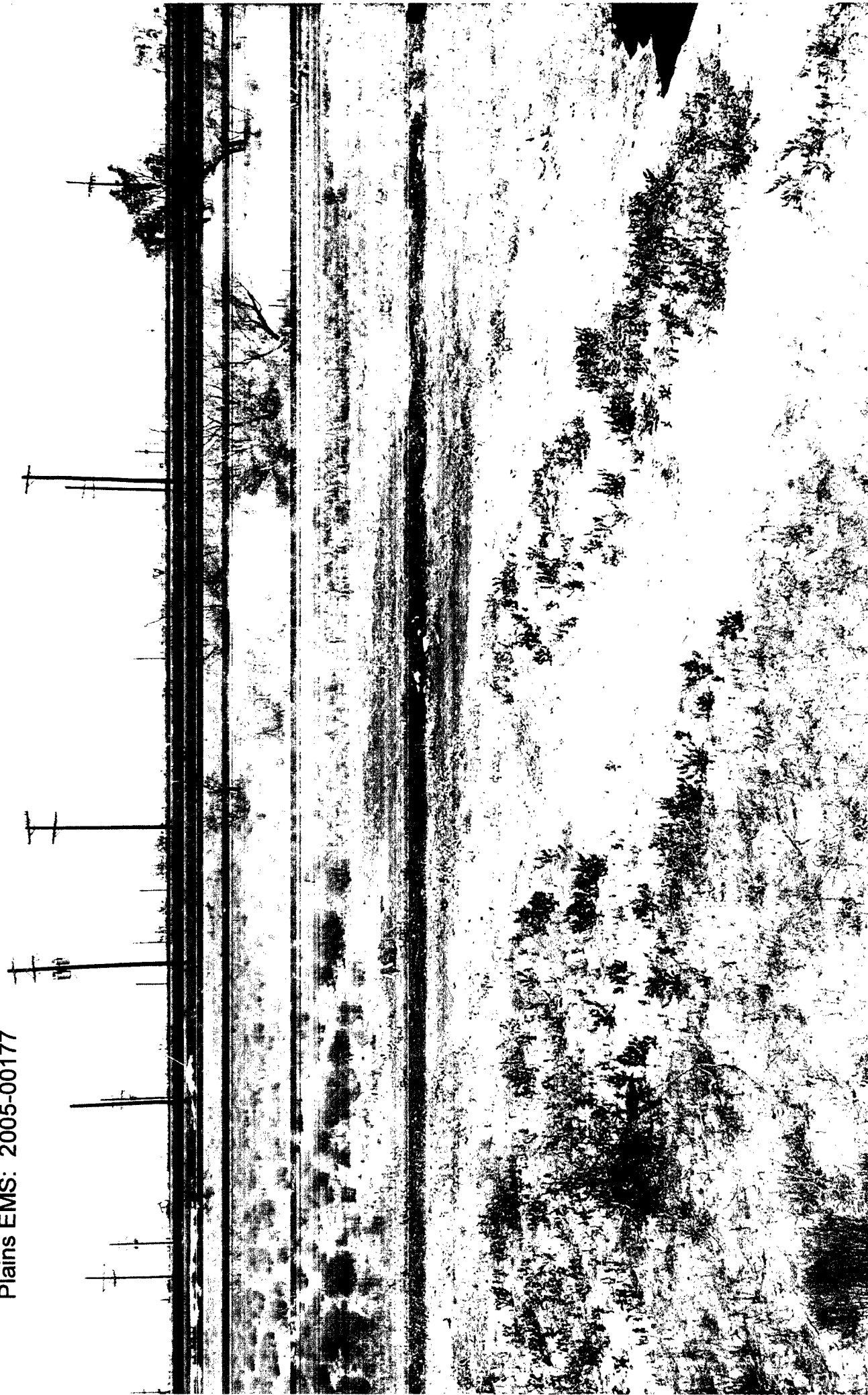
DESCRIPTION

Plains Marketing, L.P.
CVU 6" #2 Release Site
SE/SW S32, T17S, R35E
Lea County, New Mexico
EMS: 2005-00177

DRAWN BY

Basin Environmental Services
kad

Plains Marketing, L. P.
CVU 6-Inch
SE/SW S31, T17S, R35E
Lea County, NM
Plains EMS: 2005-00177



Plains Marketing, L. P.
CVU 6-Inch
SE/SW S31, T17S, R35E
Lea County, NM
Plains EMS: 2005-00177



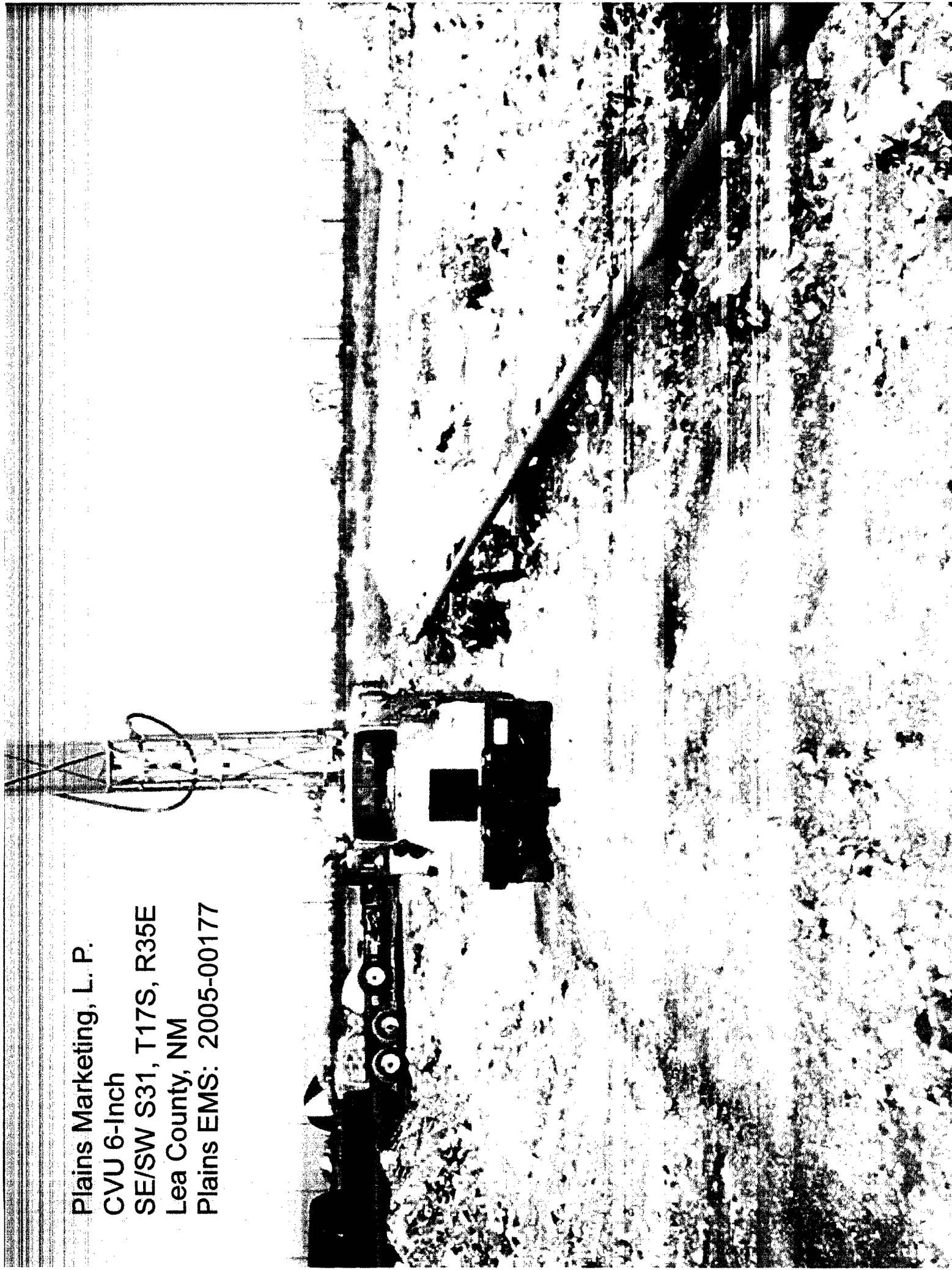
Plains Marketing, L. P.

CVU 6-Inch

SE/SW S31, T17S, R35E

Lea County, NM

Plains EMS: 2005-00177





Plains Marketing, E.P.
CVU 6-Inch
SE 1/4 W 33 N 17S, R35E
Lea County, NM
Plains EMS: 2003-00173

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: **17S** Range: **35E** Sections: **32**

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 12/30/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: **17S** Range: **35E** Sections: **31**

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

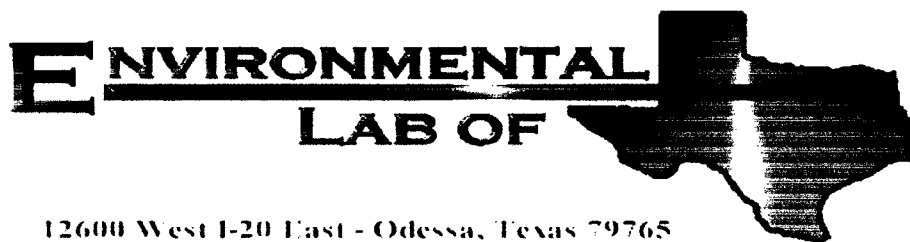
iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 12/30/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	17S	35E	31				2	95	117	106

Record Count: 2



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: CVU 6" #2

Project Number: EMS# 2005-00177

Location: Lea Co., NM

Lab Order Number: 6F02012

Report Date: 06/09/06

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E. Ramp	6F02012-01	Soil	06/01/06 13:35	06/02/06 11:05
S. Wall	6F02012-02	Soil	06/01/06 13:38	06/02/06 11:05
N. Wall	6F02012-03	Soil	06/01/06 13:41	06/02/06 11:05
W. Wall	6F02012-04	Soil	06/01/06 13:47	06/02/06 11:05
Exc. Flr.	6F02012-05	Soil	06/01/06 13:51	06/02/06 11:05

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E. Ramp (6F02012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60604	06/06/06	06/08/06	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		93.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	38.4	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	1920	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	267	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	2220	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.2 %	70-130		"	"	"	"	
S. Wall (6F02012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60604	06/06/06	06/08/06	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		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [7.66]	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	J
Carbon Ranges C12-C28	465	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	19.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	484	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.8 %	70-130		"	"	"	"	
N. Wall (6F02012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60604	06/06/06	06/08/06	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		81.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	

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.

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N. Wall (6F02012-03) Soil									
Carbon Ranges C12-C28	159	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C28-C35	15.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	174	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		83.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		87.0 %	70-130		"	"	"	"	
W. Wall (6F02012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60604	06/06/06	06/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	39.1	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	2800	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	368	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	3210	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		87.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		108 %	70-130		"	"	"	"	
Exc. Flr. (6F02012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60604	06/06/06	06/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF60222	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	394	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	15.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	409	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		92.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		99.0 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 9

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E. Ramp (6F02012-01) Soil									
% Moisture	5.8	0.1	%	1	EF60502	06/02/06	06/06/06	% calculation	
S. Wall (6F02012-02) Soil									
% Moisture	8.2	0.1	%	1	EF60502	06/02/06	06/06/06	% calculation	
N. Wall (6F02012-03) Soil									
% Moisture	6.5	0.1	%	1	EF60502	06/02/06	06/06/06	% calculation	
W. Wall (6F02012-04) Soil									
% Moisture	5.8	0.1	%	1	EF60502	06/02/06	06/06/06	% calculation	
Exc. Flr. (6F02012-05) Soil									
% Moisture	9.0	0.1	%	1	EF60502	06/02/06	06/06/06	% calculation	

Environmental Lab of Texas

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Page 4 of 9

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

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 EF60222 - Solvent Extraction (GC)

Blank (EF60222-BLK1)

Prepared & Analyzed: 06/02/06

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 Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	58.5		"	50.0		117	70-130			

LCS (EF60222-BS1)

Prepared & Analyzed: 06/02/06

Carbon Ranges C6-C12	586	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	591	10.0	"	500		118	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1180	10.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	62.3		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			

Calibration Check (EF60222-CCV1)

Prepared: 06/02/06 Analyzed: 06/03/06

Carbon Ranges C6-C12	287		mg/kg	250		115	80-120			
Carbon Ranges C12-C28	288		"	250		115	80-120			
Total Hydrocarbon nC6-nC35	576		"	500		115	80-120			
Surrogate: 1-Chlorooctane	54.8		"	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	63.7		"	50.0		127	70-130			

Matrix Spike (EF60222-MS1)

Source: 6F02011-01

Prepared & Analyzed: 06/02/06

Carbon Ranges C6-C12	546	10.0	mg/kg dry	541	ND	101	75-125			
Carbon Ranges C12-C28	586	10.0	"	541	59.4	97.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1130	10.0	"	1080	59.4	99.1	75-125			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			

Environmental Lab of Texas

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

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 EF60222 - Solvent Extraction (GC)

Matrix Spike Dup (EF60222-MSD1)		Source: 6F02011-01		Prepared & Analyzed: 06/02/06						
Carbon Ranges C6-C12	526	10.0	mg/kg dry	541	ND	97.2	75-125	3.73	20	
Carbon Ranges C12-C28	567	10.0	"	541	59.4	93.8	75-125	3.30	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1090	10.0	"	1080	59.4	95.4	75-125	3.60	20	
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	52.2		"	50.0		104	70-130			

Batch EF60604 - EPA 5030C (GC)

Blank (EF60604-BLK1)		Prepared: 06/06/06 Analyzed: 06/08/06								
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	41.6		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	46.3		"	40.0		116	80-120			

LCS (EF60604-BS1)		Prepared & Analyzed: 06/06/06								
Benzene	1.19	0.0250	mg/kg wet	1.25		95.2	80-120			
Toluene	1.15	0.0250	"	1.25		92.0	80-120			
Ethylbenzene	1.09	0.0250	"	1.25		87.2	80-120			
Xylene (p/m)	2.33	0.0250	"	2.50		93.2	80-120			
Xylene (o)	1.25	0.0250	"	1.25		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/kg	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	40.0		112	80-120			

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

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 EF60604 - EPA 5030C (GC)

Calibration Check (EF60604-CCV1)

Prepared: 06/06/06 Analyzed: 06/08/06

Benzene	0.0517		mg/kg wet	0.0500		103	80-120			
Toluene	0.0524		"	0.0500		105	80-120			
Ethylbenzene	0.0483		"	0.0500		96.6	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0594		"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.3		ug/kg	40.0		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	40.0		118	80-120			

Matrix Spike (EF60604-MS1)

Source: 6F05012-01

Prepared: 06/06/06 Analyzed: 06/08/06

Benzene	1.21	0.0250	mg/kg dry	1.27	ND	95.3	80-120			
Toluene	1.28	0.0250	"	1.27	ND	101	80-120			
Ethylbenzene	1.17	0.0250	"	1.27	ND	92.1	80-120			
Xylene (p/m)	2.63	0.0250	"	2.53	ND	104	80-120			
Xylene (o)	1.40	0.0250	"	1.27	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/kg	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.8		"	40.0		110	80-120			

Matrix Spike Dup (EF60604-MSD1)

Source: 6F05012-01

Prepared: 06/06/06 Analyzed: 06/08/06

Benzene	1.17	0.0250	mg/kg dry	1.27	ND	92.1	80-120	3.42	20	
Toluene	1.26	0.0250	"	1.27	ND	99.2	80-120	1.80	20	
Ethylbenzene	1.18	0.0250	"	1.27	ND	92.9	80-120	0.865	20	
Xylene (p/m)	2.56	0.0250	"	2.53	ND	101	80-120	2.93	20	
Xylene (o)	1.43	0.0250	"	1.27	ND	113	80-120	2.69	20	
Surrogate: a,a,a-Trifluorotoluene	40.2		ug/kg	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	47.3		"	40.0		118	80-120			

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

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 EF60502 - General Preparation (Prep)										
Duplicate (EF60502-DUP1)		Source: 6F02008-01		Prepared: 06/02/06 Analyzed: 06/06/06						
% Solids	73.2		%		71.8			1.93	20	
Duplicate (EF60502-DUP2)		Source: 6F02010-01		Prepared: 06/02/06 Analyzed: 06/06/06						
% Solids	98.8		%		98.7			0.101	20	
Duplicate (EF60502-DUP3)		Source: 6F01016-01		Prepared: 06/02/06 Analyzed: 06/06/06						
% Solids	99.9		%		99.9			0.00	20	

Environmental Lab of Texas

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

Project: CVU 6" #2
Project Number: EMS# 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/09/06 16:39

Notes and Definitions

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:

6/9/2006

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.

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

**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Keri Quenton

Company Name Basin Environmental

Company Address: P.O. Box 301

City/State/Zip: Longton, NM 88240

Telephone No: 505-449-2124

Sampler Signature: _____

Fax No: 505-396-1429

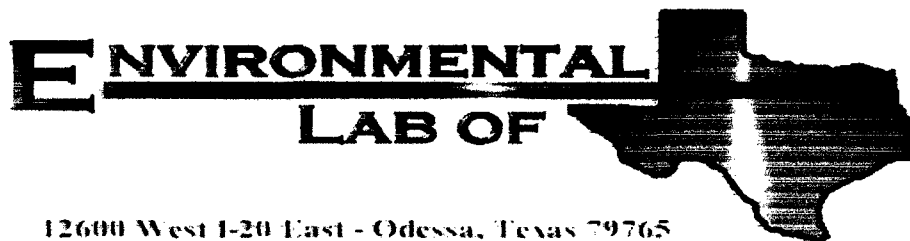
Project Name: CVA 6" #2

Project #: EMS# 2005-00177

Project Log: Lea Co. NM

PO #: PAA/C. Reynolds

[illegible]



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: CVU 6-Inch

Project Number: 2005-00177

Location: Lea County, NM

Lab Order Number: 5127012

Report Date: 10/03/05

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 5'	5127012-01	Soil	09/20/05 09:52	09/27/05 12:20
SB-1 10'	5127012-02	Soil	09/20/05 09:56	09/27/05 12:20
SB-1 15'	5127012-03	Soil	09/20/05 10:00	09/27/05 12:20
SB-1 25'	5127012-04	Soil	09/20/05 10:10	09/27/05 12:20
SB-1 35'	5127012-05	Soil	09/20/05 10:20	09/27/05 12:20
SB-2 5'	5127012-06	Soil	09/20/05 10:48	09/27/05 12:20
SB-2 15'	5127012-07	Soil	09/20/05 10:56	09/27/05 12:20
SB-3 5'	5127012-08	Soil	09/20/05 11:16	09/27/05 12:20
SB-3 15'	5127012-09	Soil	09/20/05 11:28	09/27/05 12:20
SB-4 5'	5127012-10	Soil	09/20/05 12:59	09/27/05 12:20
SB-4 15'	5127012-11	Soil	09/20/05 13:07	09/27/05 12:20
SB-5 5'	5127012-12	Soil	09/20/05 13:30	09/27/05 12:20
SB-5 15'	5127012-13	Soil	09/20/05 13:46	09/27/05 12:20
SB-5 25'	5127012-14	Soil	09/20/05 14:13	09/27/05 12:20

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 5' (5127012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/28/05	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		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	41.5	10.0	mg/kg dry	1	EI52719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	718	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	760	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	
SB-1 10' (5127012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/28/05	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		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	54.7	10.0	mg/kg dry	1	EI52719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	992	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1050	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		97.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-130		"	"	"	"	
SB-1 15' (5127012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/28/05	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		96.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52719	09/27/05	09/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 16

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 15' (5127012-03) Soil									
Surrogate: 1-Chlorooctane		76.2 %	70-130		E152719	09/27/05	09/29/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		89.4 %	70-130		"	"	"	"	
SB-1 25' (5127012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E152820	09/28/05	09/28/05	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		80.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E152719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		83.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
SB-1 35' (5127012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E152820	09/28/05	09/29/05	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		89.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E152719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		81.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 5' (5127012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/29/05	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		94.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.8 %	70-130		"	"	"	"	
SB-2 15' (5127012-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/28/05	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		80.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
SB-3 5' (5127012-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/28/05	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		91.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52719	09/27/05	09/28/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 5' (5127012-08) Soil									
Surrogate: 1-Chlorooctane		81.4 %	70-130		E152719	09/27/05	09/28/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	
SB-3 15' (5127012-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E152820	09/28/05	09/28/05	EPA 8021B	
Toluene	J [0.0214]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	J [0.0242]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.108	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0376	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E152812	09/28/05	09/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		77.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.4 %	70-130		"	"	"	"	
SB-4 5' (5127012-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E152820	09/28/05	09/29/05	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		85.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E152812	09/28/05	09/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 15' (5127012-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/29/05	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		84.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52812	09/28/05	09/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	29.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	29.0	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.4 %	70-130		"	"	"	"	
SB-5 5' (5127012-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/29/05	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		88.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52812	09/28/05	09/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	22.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	22.2	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	70-130		"	"	"	"	
SB-5 15' (5127012-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52820	09/28/05	09/29/05	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		82.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52812	09/28/05	"	EPA 8015M	
Diesel Range Organics >C12-C35	73.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	73.4	10.0	"	"	"	"	"	"	

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-5 15' (S127012-13) Soil									
Surrogate: 1-Chlorooctane		80.8 %	70-130		E152812	09/28/05	09/29/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		77.2 %	70-130		"	"	"	"	
SB-5 25' (S127012-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E152820	09/28/05	09/29/05	EPA 8021B	
Toluene	J [0.0155]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0446	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: α,α,α -Trifluorotoluene		82.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	J [9.50]	10.0	mg/kg dry	1	E152812	09/28/05	09/29/05	EPA 8015M	J
Diesel Range Organics >C12-C35	315	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	315	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 5' (5127012-01) Soil									
% Moisture	4.9	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-1 10' (5127012-02) Soil									
% Moisture	5.4	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-1 15' (5127012-03) Soil									
Chloride	86.8	5.00	mg/kg	10	EI52902	09/28/05	09/29/05	EPA 300.0	
% Moisture	9.6	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-1 25' (5127012-04) Soil									
% Moisture	5.0	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-1 35' (5127012-05) Soil									
% Moisture	5.9	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-2 5' (5127012-06) Soil									
% Moisture	2.5	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-2 15' (5127012-07) Soil									
% Moisture	5.2	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-3 5' (5127012-08) Soil									
% Moisture	7.6	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-3 15' (5127012-09) Soil									
% Moisture	1.9	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	
SB-4 5' (5127012-10) Soil									
% Moisture	1.3	0.1	%	1	EI52805	09/28/05	09/28/05	% calculation	

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1301 S. County Road 1150
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Project: CVU 6-Inch
Project Number: 2005-00177
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Reported:
10/03/05 14:54

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 15' (5127012-11) Soil									
% Moisture	5.5	0.1	%	1	E152805	09/28/05	09/28/05	% calculation	
SB-5 5' (5127012-12) Soil									
% Moisture	0.5	0.1	%	1	E152805	09/28/05	09/28/05	% calculation	
SB-5 15' (5127012-13) Soil									
% Moisture	3.0	0.1	%	1	E152805	09/28/05	09/28/05	% calculation	
SB-5 25' (5127012-14) Soil									
% Moisture	3.9	0.1	%	1	E152805	09/28/05	09/28/05	% calculation	

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52719 - Solvent Extraction (GC)										
Blank (EI52719-BLK1)										
Prepared: 09/27/05 Analyzed: 09/28/05										
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	43.2		mg/kg	50.0		86.4	70-130			
Surrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			
LCS (EI52719-BS1)										
Prepared: 09/27/05 Analyzed: 09/28/05										
Gasoline Range Organics C6-C12	385	10.0	mg/kg wet	500		77.0	75-125			
Diesel Range Organics >C12-C35	427	10.0	"	500		85.4	75-125			
Total Hydrocarbon C6-C35	812	10.0	"	1000		81.2	75-125			
Surrogate: 1-Chlorooctane	42.7		mg/kg	50.0		85.4	70-130			
Surrogate: 1-Chlorooctadecane	46.5		"	50.0		93.0	70-130			
Calibration Check (EI52719-CCV1)										
Prepared: 09/27/05 Analyzed: 09/28/05										
Gasoline Range Organics C6-C12	414		mg/kg	500		82.8	80-120			
Diesel Range Organics >C12-C35	455		"	500		91.0	80-120			
Total Hydrocarbon C6-C35	869		"	1000		86.9	80-120			
Surrogate: 1-Chlorooctane	60.3		"	50.0		121	0-200			
Surrogate: 1-Chlorooctadecane	63.4		"	50.0		127	0-200			
Matrix Spike (EI52719-MS1)										
Source: 5127010-01 Prepared: 09/27/05 Analyzed: 09/28/05										
Gasoline Range Organics C6-C12	397	10.0	mg/kg dry	514	ND	77.2	75-125			
Diesel Range Organics >C12-C35	437	10.0	"	514	ND	85.0	75-125			
Total Hydrocarbon C6-C35	834	10.0	"	1030	ND	81.0	75-125			
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	54.4		"	50.0		109	70-130			
Matrix Spike Dup (EI52719-MSD1)										
Source: 5127010-01 Prepared: 09/27/05 Analyzed: 09/28/05										
Gasoline Range Organics C6-C12	402	10.0	mg/kg dry	514	ND	78.2	75-125	1.25	20	
Diesel Range Organics >C12-C35	441	10.0	"	514	ND	85.8	75-125	0.911	20	
Total Hydrocarbon C6-C35	843	10.0	"	1030	ND	81.8	75-125	1.07	20	
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	52.3		"	50.0		105	70-130			

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Plains All American EH & S
1301 S. County Road 1150
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Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52812 - Solvent Extraction (GC)

Blank (EI52812-BLK1)

Prepared & Analyzed: 09/28/05

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	42.5		mg/kg	50.0		85.0	70-130			
Surrogate: 1-Chlorooctadecane	42.6		"	50.0		85.2	70-130			

LCS (EI52812-BS1)

Prepared & Analyzed: 09/28/05

Gasoline Range Organics C6-C12	384	10.0	mg/kg wet	500		76.8	75-125			
Diesel Range Organics >C12-C35	430	10.0	"	500		86.0	75-125			
Total Hydrocarbon C6-C35	814	10.0	"	1000		81.4	75-125			
Surrogate: 1-Chlorooctane	42.5		mg/kg	50.0		85.0	70-130			
Surrogate: 1-Chlorooctadecane	46.1		"	50.0		92.2	70-130			

Calibration Check (EI52812-CCV1)

Prepared: 09/28/05 Analyzed: 09/29/05

Gasoline Range Organics C6-C12	415		mg/kg	500		83.0	80-120			
Diesel Range Organics >C12-C35	456		"	500		91.2	80-120			
Total Hydrocarbon C6-C35	871		"	1000		87.1	80-120			
Surrogate: 1-Chlorooctane	60.5		"	50.0		121	0-200			
Surrogate: 1-Chlorooctadecane	64.2		"	50.0		128	0-200			

Matrix Spike (EI52812-MS1)

Source: 5127009-04

Prepared & Analyzed: 09/28/05

Gasoline Range Organics C6-C12	415	10.0	mg/kg dry	530	13.4	75.8	75-125			
Diesel Range Organics >C12-C35	464	10.0	"	530	42.7	79.5	75-125			
Total Hydrocarbon C6-C35	879	10.0	"	1060	56.1	77.6	75-125			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	49.8		"	50.0		99.6	70-130			

Matrix Spike Dup (EI52812-MSD1)

Source: 5127009-04

Prepared & Analyzed: 09/28/05

Gasoline Range Organics C6-C12	419	10.0	mg/kg dry	530	13.4	76.5	75-125	0.959	20	
Diesel Range Organics >C12-C35	468	10.0	"	530	42.7	80.2	75-125	0.858	20	
Total Hydrocarbon C6-C35	887	10.0	"	1060	56.1	78.4	75-125	0.906	20	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	47.6		"	50.0		95.2	70-130			

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52820 - EPA 5030C (GC)

Blank (EI52820-BLK1)

Prepared & Analyzed: 09/28/05

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	39.2		ug/kg	40.0		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0		106	80-120			

LCS (EI52820-BS1)

Prepared & Analyzed: 09/28/05

Benzene	42.5		ug/kg	50.0		85.0	80-120			
Toluene	42.3		"	50.0		84.6	80-120			
Ethylbenzene	50.6		"	50.0		101	80-120			
Xylene (p/m)	93.8		"	100		93.8	80-120			
Xylene (o)	51.2		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.2		"	40.0		85.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0		96.0	80-120			

Calibration Check (EI52820-CCV1)

Prepared: 09/28/05 Analyzed: 09/29/05

Benzene	40.3		ug/kg	50.0		80.6	80-120			
Toluene	40.0		"	50.0		80.0	80-120			
Ethylbenzene	47.1		"	50.0		94.2	80-120			
Xylene (p/m)	88.3		"	100		88.3	80-120			
Xylene (o)	51.7		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.0		"	40.0		85.0	0-200			
Surrogate: 4-Bromofluorobenzene	40.9		"	40.0		102	0-200			

Matrix Spike (EI52820-MS1)

Source: 5127013-01

Prepared: 09/28/05 Analyzed: 09/29/05

Benzene	0.0470	0.00100	mg/kg dry	0.0508	ND	92.5	80-120			
Toluene	0.0465	0.00100	"	0.0508	ND	91.5	80-120			
Ethylbenzene	0.0573	0.00100	"	0.0508	ND	113	80-120			
Xylene (p/m)	0.106	0.00100	"	0.102	ND	104	80-120			
Xylene (o)	0.0550	0.00100	"	0.0508	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.9		ug/kg	40.0		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	47.5		"	40.0		119	80-120			

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52820 - EPA 5030C (GC)

Matrix Spike Dup (EI52820-MSD1)

Source: 5127013-01

Prepared: 09/28/05 Analyzed: 09/29/05

Benzene	0.0409	0.00100	mg/kg dry	0.0508	ND	80.5	80-120	13.9	20	
Toluene	0.0410	0.00100	"	0.0508	ND	80.7	80-120	12.5	20	
Ethylbenzene	0.0470	0.00100	"	0.0508	ND	92.5	80-120	20.0	20	
Xylene (p/m)	0.0871	0.00100	"	0.102	ND	85.4	80-120	19.6	20	
Xylene (o)	0.0496	0.00100	"	0.0508	ND	97.6	80-120	10.1	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	32.2		ug/kg	40.0		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	39.9		"	40.0		99.8	80-120			

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52805 - General Preparation (Prep)

Blank (EI52805-BLK1) Prepared & Analyzed: 09/28/05

% Solids 100 %

Duplicate (EI52805-DUP1) Source: 5126007-01 Prepared & Analyzed: 09/28/05

% Solids 99.7 % 99.7 0.00 20

Duplicate (EI52805-DUP2) Source: 5123015-03 Prepared & Analyzed: 09/28/05

% Solids 89.1 % 87.3 2.04 20

Duplicate (EI52805-DUP3) Source: 5127006-01 Prepared & Analyzed: 09/28/05

% Solids 98.0 % 98.2 0.204 20

Duplicate (EI52805-DUP5) Source: 5127012-03 Prepared & Analyzed: 09/28/05

% Solids 90.8 % 90.4 0.442 20

Duplicate (EI52805-DUP6) Source: 5127013-09 Prepared & Analyzed: 09/28/05

% Solids 92.1 % 92.5 0.433 20

Batch EI52902 - Water Extraction

Blank (EI52902-BLK1) Prepared: 09/28/05 Analyzed: 09/29/05

Chloride ND 0.500 mg/kg

Blank (EI52902-BLK2) Prepared: 09/28/05 Analyzed: 09/29/05

Chloride ND 0.500 mg/kg

LCS (EI52902-BS1) Prepared: 09/28/05 Analyzed: 09/29/05

Chloride 8.18 mg/L 10.0 81.8 80-120

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
10/03/05 14:54

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 EI52902 - Water Extraction										
LCS (EI52902-BS2)					Prepared: 09/28/05 Analyzed: 09/29/05					
Chloride	8.69		mg/L	10.0		86.9	80-120			
Calibration Check (EI52902-CCV1)					Prepared: 09/28/05 Analyzed: 09/29/05					
Chloride	8.47		mg/L	10.0		84.7	80-120			
Calibration Check (EI52902-CCV2)					Prepared: 09/28/05 Analyzed: 09/29/05					
Chloride	8.61		mg/L	10.0		86.1	80-120			
Duplicate (EI52902-DUP1)					Source: 5124001-03		Prepared: 09/28/05 Analyzed: 09/29/05			
Chloride	6860	100	mg/kg		7100			3.44	20	
Duplicate (EI52902-DUP2)					Source: 5127012-03		Prepared: 09/28/05 Analyzed: 09/29/05			
Chloride	87.2	5.00	mg/kg		86.8			0.460	20	

Environmental Lab of Texas

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

Project: CVU 6-Inch
Project Number: 2005-00177
Project Manager: Camille Reynolds

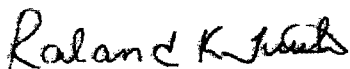
Fax: (432) 687-4914

Reported:
10/03/05 14:54

Notes and Definitions

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:

10/3/2005

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.

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.

**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: CVU-6-INEH

Project #: PH5: 2005-00177

Project Loc: LEA COUNTY NM

PO#: PHA/C. REYNOLDS

Fax No: (505) 369-1420

Sampler Signature:

Special Instructions:		Sample Containers Intact? ☒ Y ☐ N	
Temperature Upon Receipt		Temperature Upon Receipt	
Laboratory Comments:		Laboratory Comments:	
Relinquished by		Recd by	
Date		Date	
Time		Time	
Relinquished by		Recd by	
Date		Date	
Time		Time	

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L

Date/Time: 09-27-05 @ 1220

Order #: 5 I 27012

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	☒ Yes	☐ No	-05	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:

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	Excavation Floor (5' bgs)				
5		784 ppm	Heavy	None	Caliche Layer, Imbedded w/fine red sand, Dry
10		570 ppm	Heavy	None	
15		17.4 ppm	Moderate	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, Dry
20		27.1 ppm	None	None	
25		7.6 ppm	None	None	Caliche Layer (21' to 23' bgs), Dry
30		7.1 ppm	None	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, Dry
35 TD		7.1 ppm	None	None	Sand Stone Layer (34' bgs), Dry

Plains Marketing, L. P.
CVU 6-Inch # 1 & 2
Lea County, New Mexico
SE/SW S31, T17S, R35E
EMS: 2005-00177

Soil Boring Completion Data
 TD: 35 Feet bgs
 Installed 20 September 2005
 Basin Environmental Service Technologies

☐ Samples selected for analysis

Soil Boring Completion Data
 7 bags of hydrated Bentonite Plug Surface to 35' bgs

TITLE	DESCRIPTION
Appendix C CVU 6-Inch # 1 & 2	Soil Boring 1
DRAWN BY KAD	DATE 26 September 2006

Plains Marketing, L. P.

CVU 6-Inch # 1 & 2

Lea County, New Mexico

SE/SW S31, T17S, R35E

EMS: 2005-00177

Soil Boring Completion Data

TD: 15 Feet bgs

Installed 20 September 2005

Basin Environmental Service Technologies

☐

Samples selected for analysis

Soil Boring Completion Data

4 bags of hydrated Bentonite Plug Surface to 15' bgs

Soil Description

Caliche Layer, Imbedded w/fine red sand, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

2.3 ppm

Soil Column

Depth

Surface

5

10

15

TD

Soil Description

Sand (SP) White-Brown, Very Fine Grained, Well Sorted, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

5.2 ppm

TITLE

Appendix C
CVU 6-Inch # 1 & 2

DESCRIPTION

Soil Boring 2

DRAWN BY

KAD

DATE

26 September 2006

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Plains Marketing, L. P. CVU 6-Inch # 1 & 2 Lea County, New Mexico SE/SW S31, T17S, R35E EMS: 2005-00177
Surface						Soil Boring Completion Data TD: 15 Feet bgs Installed 20 September 2005 Basin Environmental Service Technologies ☐ Samples selected for analysis
5		2.4 ppm	None	None	Caliche Layer, Imbedded w/fine red sand, Dry	
10		2.1 ppm	None	None	Clay Layer (6' to 8' bgs), Dry	Soil Boring Completion Data 4 bags of hydrated Bentonite Plug Surface to 15' bgs
15 TD		26.2 ppm	None	None	Caliche Layer, Dry	

TITLE	DESCRIPTION
Appendix C CVU 6-Inch # 1 & 2	Soil Boring 3
DRAWN BY KAD	DATE 26 September 2006

[illegible]

TD: 20 Feet bgs
Installed 20 September 2005
Basin Environmental Service
Technologies

Installed 20 September 2005
Basin Environmental Services
Technologies

1

5 bags of hydrated
Bentonite Plug
Surface to 20' bgs

5.5 ppm

None

None

None

None

None

Appendix C
CVU 6-Inch # 1 & 2

Soil Boring 4

DRAWN BY
KAD

DATE	26
------	----

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
Surface					
5		18.8 ppm	None	None	Caliche Layer, Imbedded w/fine red sand, Dry
10		16.6 ppm	None	None	
15		199 ppm	None	None	
20		3.0 ppm	None	None	Sand, Red-Brown, Very Fined Grained, Well Sorted, Dry
25 TD		45.7 ppm	None	None	Caliche Layer, (22' to 25' bgs), Dry

Soil Boring Completion Data

TD: 25 Feet bgs

Installed 20 September 2005

Basin Environmental Service Technologies

☐ Samples selected for analysis

Soil Boring Completion Data

7 bags of hydrated Bentonite Plug Surface to 25' bgs

TITLE Appendix C CVU 6-Inch # 1 & 2	DESCRIPTION Soil Boring 5
DRAWN BY KAD	DATE 26 September 2006

Plains Marketing, L. P.
CVU 6-Inch # 1 & 2
Lea County, New Mexico
SE/SW S31, T17S, R35E
EMS: 2005-00177

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 October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 3112 West US Hwy 82, Lovington, NM	Telephone No. 505-441-0965
Facility Name CVU 6 Inch #1	Facility Type 6" Steel Pipeline

Surface Owner State Land Office	Mineral Owner	Lease No.
---------------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter N	Section 31	Township 17S	Range 35E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32° 47' 17.6" Longitude 103° 29' 49.6"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 barrels	Volume Recovered 0 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 07/20/2005 @ 10:00	Date and Hour of Discovery 07/20/2005 @ 10:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 07/20/2005 @ 15:45	
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 resulted in release of sour crude oil. A line clamp was installed to mitigate the release. The line is a 6 inch steel transmission pipeline that produces approximately 3,200 barrels of crude oil per day. The pressure on the line is 80 psi and the gravity of the sour crude oil is 41.2. The sour crude has an H₂S content of <10 ppm. Line depth is approximately 12 inches below ground surface.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 540 ft².

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>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@psalp.com	Conditions of Approval:	Attached ☐

Date: 7/22/05

Phone: 505 441 0965