NMOCD

Basin Environmental Service Technologies, LLC

P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429

Effective Solutions

PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE PLAN

PLAINS MARKETING, L.P. (231735)
Lea Station Unit # 7 Pump
Lea County, New Mexico
Plains SRS # 2005-00292
UNIT F (SE/NW), Section 28, Township 20 South, Range 37 East
Latitude 32°, 32', 47.7" North, Longitude 103°, 15', 30.2" West
NMOCD File Number: 1RP-1157

6.15.07
8:00 AM
Review - Agree to
Delineate to clean +1
& Re: Review - Possible RBC
SG

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC

06 June 2007

Ken Dutton
Basin Environmental Service Technologies, LLC

RP#1157

TABLE OF CONTENTS

Introduction	1
New Mexico Oil Conservation Division (NMOCD) Soil Classification	1
Summary of Field Activities	2
Distribution of Hydrocarbons in the Unsaturated Zone	3
Recommendations for Remediation	4
QA/QC Procedures	5
Soil Sampling	5
Decontamination of Equipment	5
Laboratory Protocol	5
Limitations	5
Distribution	7

Tables

Table 1: Soil Chemistry Results

Figures

Figure 1: Site Location Map
Figure 2: Excavation Site Map
Figure 3: Excavation Site Map – PID Sampling Locations
Figure 4: Excavation Site Map – Soil Sampling Locations
Figure 5: Digital Photos
Figure 6: Installation of 20-ml Poly Liner

Appendices

Appendix A: New Mexico Office of the State Engineer Water Well Database Report
Appendix B: Environmental Laboratory of Texas Analytical Results
Appendix C: NMOCD C-138 (manifest)
Appendix D: Initial NMOCD C-141

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a crude oil release for Plains Marketing, L.P. (Plains), located at the Plains Lea Station Pumping Facility Unit # 7 Pump on 08 December 2005. The crude oil release was contained and excavation of the impacted caliche pad and soil was initiated and stockpiled adjacent to the excavation. The Lea Station Unit # 7 Pump is located on land owned by Plains All American.

This site is located in Unit F (SE¼/NW¼) Section 28, Township 20 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 32', 47.74" North and site longitude is 103°, 15', 30.2" West. The site is characterized by a large operational crude oil pumping station, which includes numerous pumps and high volume crude oil transfer tanks. The visible surface stained area includes the release point and flow path areas covering an area approximately 69 feet long by 30 feet wide (north to south on caliche pad), 168 feet long by 6 feet wide (west to east on caliche pad) and 120 feet long by 35 wide (north to south on impacted soil area) . Approximately 95 barrels of crude oil were released from the crude oil release and 81 barrels were recovered.

An Emergency One-Call was initiated 08 December 2005 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on 08 December 2005. A C-141 form, dated 09 December 2005 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix C, NMOCD C-141).

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed depth to groundwater for that section, township and range, to be an average of 40 feet bgs. 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 <20, which sets the remediation levels at:

Benzene:	10 ppm
BTEX:	50 ppm

TPH: 100 ppm

SUMMARY OF FIELD ACTIVITIES

On 08 December 2005, Basin mobilized to the Plains Lea Station to a crude oil release for Plains Marketing, L.P. (Plains), located at the Unit # 7 Pump. Plains operations personnel replaced a malfunctioning seal on the Unit # 7 pump to repair and contain the crude oil release. Upon arrival at the release site, Basin initiated excavation of the release point and flow path areas with the impacted caliche and soil stockpiled on a 6-mil poly liner adjacent to the excavation for future remedial action. The excavated area is approximately 69 feet long by 30 feet wide (north to south on caliche pad), 168 feet long by 6 feet wide (west to east on caliche pad) and 120 feet long by 35 wide (north to south on impacted soil). See Figure 2, Excavation Site Map). Approximately 546 cubic yards of impacted caliche and soil was stockpiled adjacent to the excavation, which was subsequently transported to the Plains Lea Station Land Farm (LSLF) (see Appendix D, NMOCD C-138).

On 13 December 2005, thirteen (13) soil samples were collected from the floor of the excavated caliche pad area and field screened with a Photoionization Detector (PID), (see Figure 3, Excavation Site Map - Soil Sampling Locations). Field screening results of the thirteen (13) soil samples indicated that Volatile Organic Compounds (VOCs) were below NMOCD regulatory guidelines (<100 ppm). Due to Lea Station being a high volume crude oil transfer station with transport trucks operating on a 24-hour schedule, clean caliche backfill was obtained from a nearby landowner and the caliche pad was backfilled and leveled to allow unhindered transport truck operations.

On 15 December 2005, eight (8) soil samples were collected from the floor and walls of the excavated north to south crude impacted soil area and field screened with a PID. Field screening results indicated VOCs were below NMOCD regulatory guidelines (100 ppm) for the eight (8) soil samples.

On 26 January 2007, two (2) confirmation soil samples were collected from the north to south impacted soil area at approximately 1-foot bgs and analyzed for constituent concentrations of total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results indicated both confirmation soil samples exceeded NMOCD regulatory standards for constituent concentrations of TPH-GRO/DRO.

In April 2007, over excavation of the north to south impacted soil area was conducted to approximately 2.5 feet bgs. Two (2) soil samples were collected and analyzed for constituent concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX) and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX and TPH-GRO/DRO were below NMOCD regulatory standards with the

exception of the north floor soil sample, which exceeded NMOCD regulatory standards for TPH-GRO/DRO concentrations.

In April 2007, continued over excavation of the north floor area was accomplished to approximately six (6) feet bgs. A soil sample was collected and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that BTEX concentrations were below NMOCD regulatory standards and TPH-GRO/DRO concentrations exceeded NMOCD regulatory standards (see Figure 4, Excavation Site Map – Soil Sampling Locations).

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The final dimensions of the excavation that includes the release point and flow path areas are approximately 69 feet long by 30 feet wide (north to south on caliche pad), 168 feet long by 6 feet wide (west to east on caliche pad), 120 feet long by 35 wide (north to south on impacted soil) with depths ranging from approximately 1 foot to 6 feet below ground surface (bgs). Approximately 546 cubic yards of impacted caliche and soil were stockpiled on-site commensurate with remediation activities conducted by Basin, which was subsequently transported to the Plains LSLF.

On 13 December 2005, thirteen (13) soil samples were collected from the floor of the excavated caliche pad area at a depth of approximately 1 foot and field screened with a PID, (see Figure 3, Excavation Site Map - Soil Sampling Locations). Field screening results of the thirteen (13) soil samples indicated that VOCs were below NMOCD regulatory guidelines (<100 ppm).

On 15 December 2005, eight (8) soil samples were collected from the floor and walls of the excavated north to south crude impacted soil area at a depth of approximately 1.5 to 3 feet bgs and field screened with a PID. Field screening results indicated VOCs were below NMOCD regulatory guidelines (<100 ppm) for the eight (8) soil samples.

On 26 January 2007, two (2) confirmation soil samples were collected from the north to south impacted soil area at approximately 1-foot bgs and analyzed for constituent concentrations of TPH-GRO/DRO. Laboratory results indicated the excavation floor south and excavation floor north confirmation soil samples exceeded NMOCD regulatory standards for constituent concentrations of TPH-GRO/DRO at 215 mg/kg and 262 mg/kg, respectively. Based on laboratory results, continued excavation of the north to south impacted area was warranted.

In April 2007, over excavation of the north to south impacted soil area was conducted to approximately 2.5 feet bgs. On 17 April 2007, two (2) soil samples were collected from the excavation floor and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO were below

NMOCD regulatory standards for the south floor sample at 51 mg/kg and the north floor soil sample exceeded NMOCD regulatory standards at 260 mg/kg. Based on laboratory results, continued excavation of the north to south impacted area (north floor area) was warranted.

In April 2007, over excavation of the north to south impacted soil area (north floor area) was conducted to approximately 6 feet bgs. On 30 April 2007, one (1) soil sample was collected from the north excavation floor and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO for the north floor soil sample exceeded NMOCD regulatory standards at 450 mg/kg.

RECOMMENDATIONS FOR REMEDIATION

The caliche pad area was excavated to a depth of approximately 1 foot bgs and clean caliche backfill was obtained from a nearby landowner. Based on the PID field screening results of the thirteen (13) soil samples (<100 ppm) and the high volume transport truck traffic, the caliche pad area was backfilled to allow unhindered transport truck operations in and out of Plains Lea Station. Approximately 564 cubic yards of impacted soil has been excavated and transported to the Plains LSLF.

Based on the results of the soil delineation investigation which indicate the impacted soils are limited in extent to the north floor area and Lea Pumping station being a 24-hour operation facility, Basin and Plains requests approval from the NMOCD to install an impermeable 20-ml poly-liner at the north floor excavation area at a depth of approximately six (6) feet bgs (see Figure 5, Installation of 20-ml Poly-liner). The barrier will extend to a minimum of three (3) feet beyond the edges of soil impacted above NMOCD remedial thresholds. The impermeable liner, approximately 15 feet long by 15 feet wide, will mitigate migration of contaminants and allow natural attenuation of the limited impacted soils. Cushion sand will be placed above and below the liner to protect the integrity of the liner. Once installation of the 20-ml poly-liner is completed, backfilling of the excavation will be initiated with clean soil transported from the Plains LSLF (<100 ppm). Additionally, there are four (4) groundwater monitoring wells associated with groundwater evaluation of the site located at the up gradient, cross gradient and down gradient positions. These four (4) groundwater monitoring wells (MW-12, MW-4, MW-9 and MW-10) are currently being sampled on a quarterly basis and will be incorporated into the monitoring of the Lea Station Unit # 7 Pump release site.

Based on the results of the remediation activities conducted, Basin recommends that Plains request approval from the NMOCD 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-GRO/DRO 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 Remediation/Closure 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

Copy 1: Jeff Dann
Plains All American
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 2: Camille Reynolds
Plains All American
3112 W. Highway 82
Lovington, New Mexico 88260
cjreynolds@paalp.com

Copy 3: Mr. Larry Johnson
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240
Larry.Johnson@state.nm.us

Copy 4: Basin Environmental Service Technologies LLC
P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com

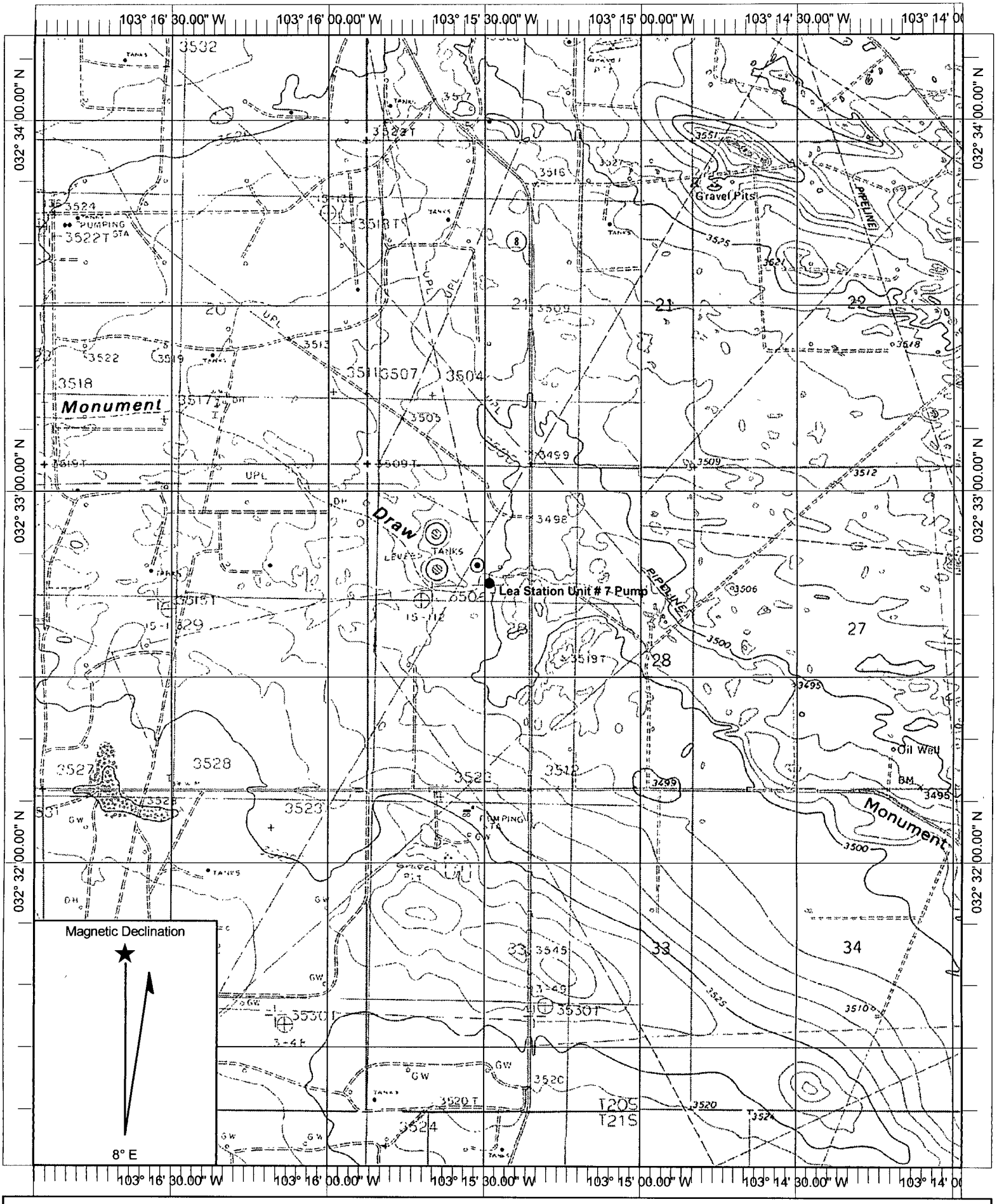
Copy 3

TABLE 1

SOIL CHEMISTRY

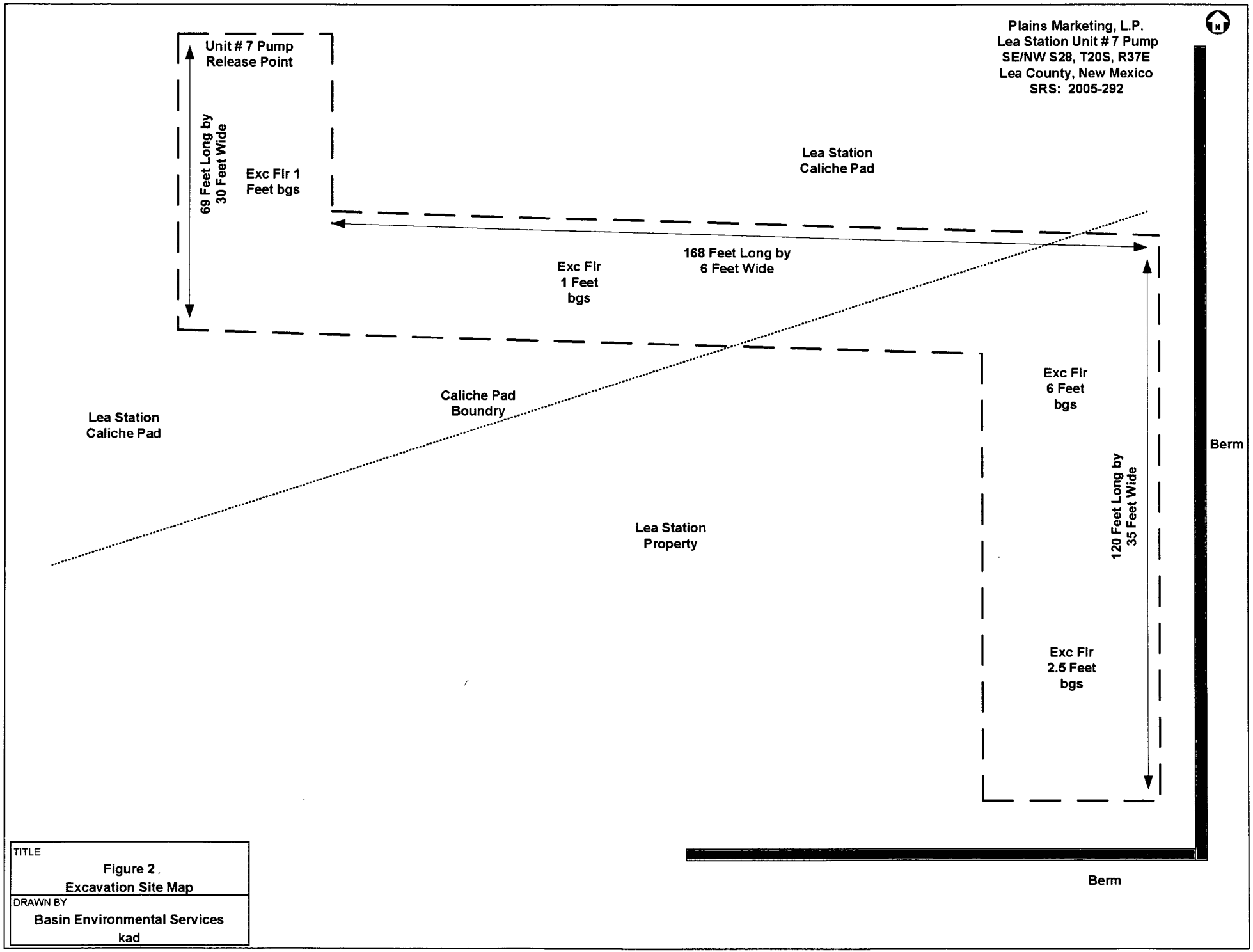
PLAINS MARKETING, L.P.
LEA STATION UNIT # 7 PUMP
LEA COUNTY, NEW MEXICO
SRS: 2005-00292

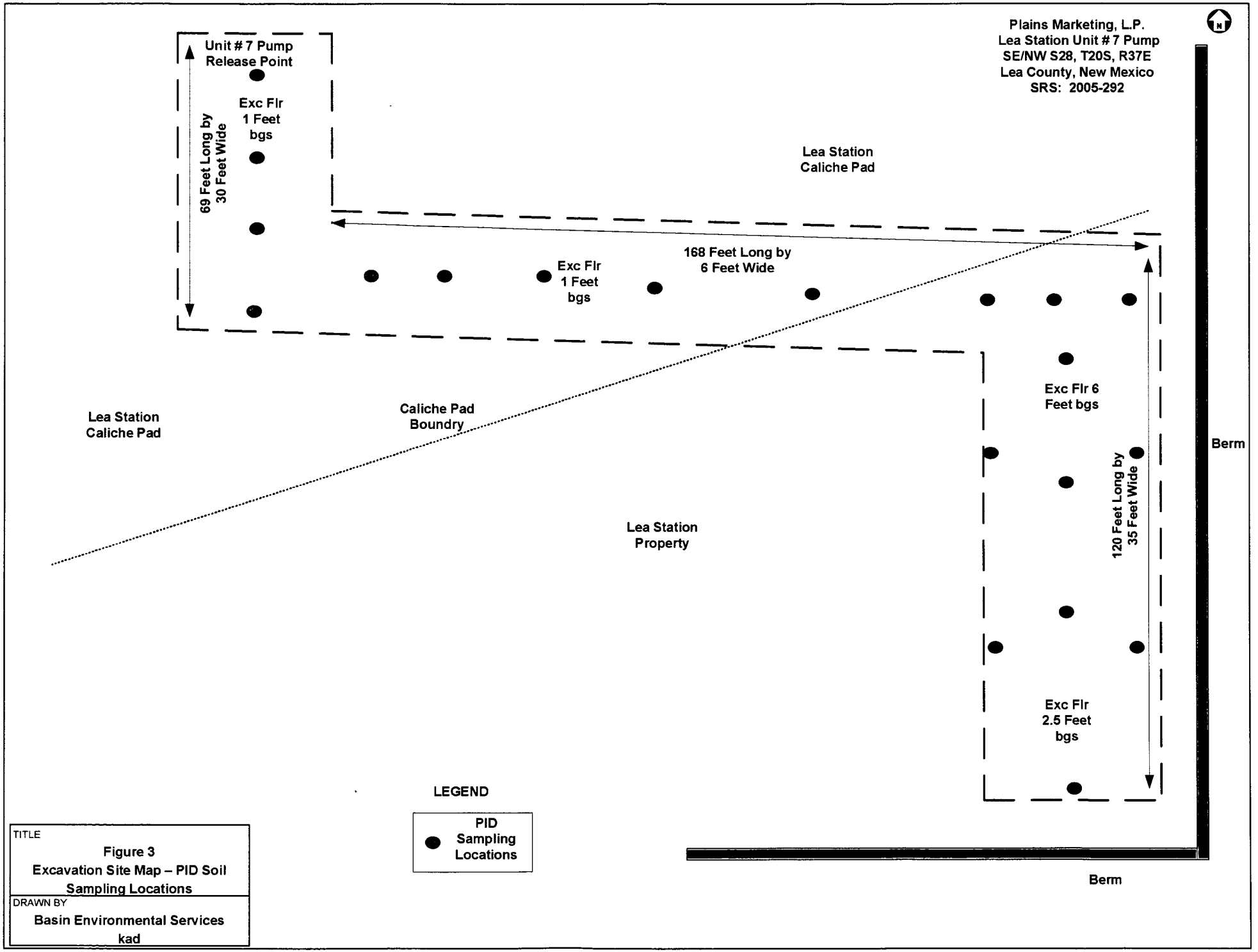
SAMPLE LOCATION	SAMPLE DEPTH (Below Normal Surface Grade)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH	CHLORIDES
			BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	M,P-XYLENES (mg/kg)	O-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	(mg/kg)	(mg/kg)
STCKPL	N/A	01/26/07						20.9	916	936	
EXCV FLR S	1' bgs	01/26/07						<10.0	215	215	15
EXCV FLR N	1' bgs	01/26/07						<10.0	262	262	
North Floor	2.5' bgs	04/17/07	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	260	260	
South Floor	2.5' bgs	04/17/07	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	51.2	51	
EXCV FLR NORTH	6' bgs	04/30/07	<0.025	<0.025	<0.025	<0.025	<0.025	10	439	450	

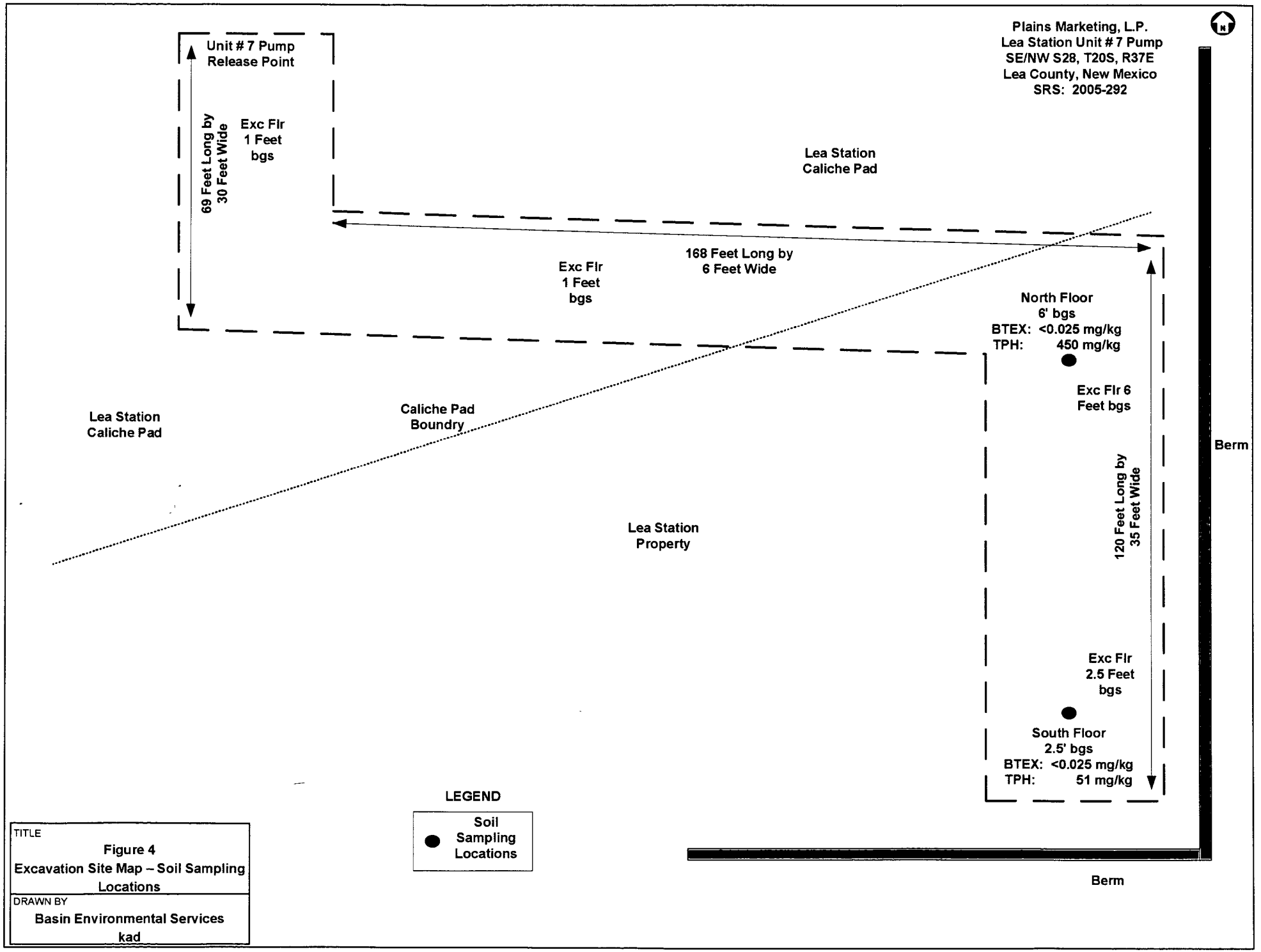


Name: MONUMENT SOUTH
Date: 6/8/2007
Scale: 1 inch equals 2000 feet

Location: 032° 32' 42.33" N 103° 15' 27.30" W NAD 27
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
Lea Station Unit # 7 Pump


Plains Marketing, L.P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, New Mexico
SRS: 2005-292
Unit # 7 Pump
Release Point
69 Feet Long by
30 Feet Wide
Exc Flr 1
Feet bgs
Lea Station
Caliche Pad
168 Feet Long by
6 Feet Wide
Exc Flr
1 Feet
bgs
Caliche Pad
Boundry
Lea Station
Caliche Pad
Exc Flr
6 Feet
bgs
Berm
120 Feet Long by
35 Feet Wide
Lea Station
Property
Exc Flr
2.5 Feet
bgs
Berm
TITLE
Figure 2
Excavation Site Map
DRAWN BY
Basin Environmental Services
kad

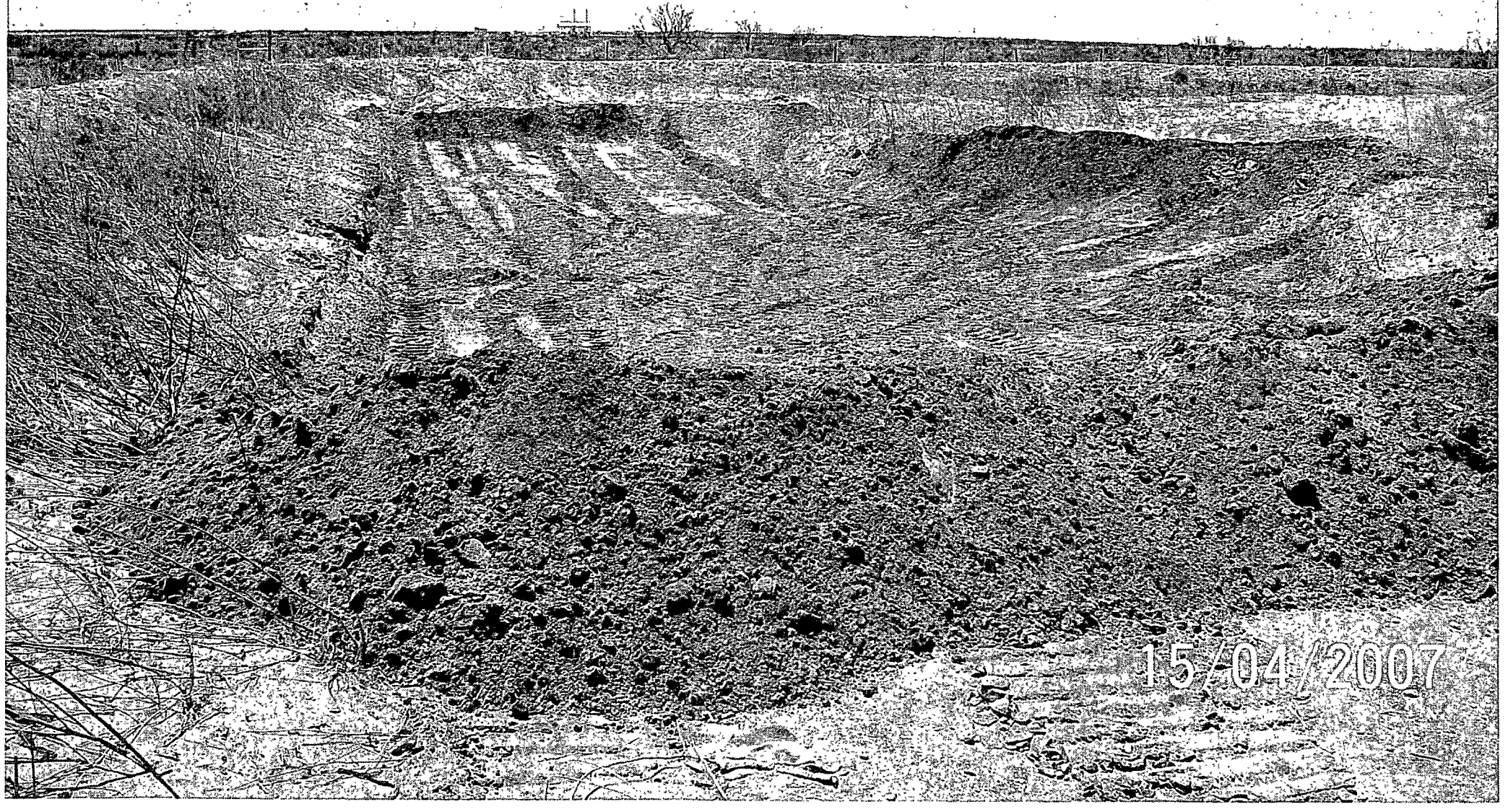

Plains Marketing, L.P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, New Mexico
SRS: 2005-292
Unit # 7 Pump Release Point
Exc Flr 1 Feet bgs
69 Feet Long by 30 Feet Wide
Lea Station Caliche Pad
168 Feet Long by 6 Feet Wide
Exc Flr 1 Feet bgs
Exc Flr 6 Feet bgs
Lea Station Caliche Pad
Caliche Pad Boundry
Lea Station Property
120 Feet Long by 35 Feet Wide
Berm
Exc Flr 2.5 Feet bgs
LEGEND
PID Sampling Locations
Berm
TITLE
Figure 3
Excavation Site Map – PID Soil Sampling Locations
DRAWN BY
Basin Environmental Services
kad

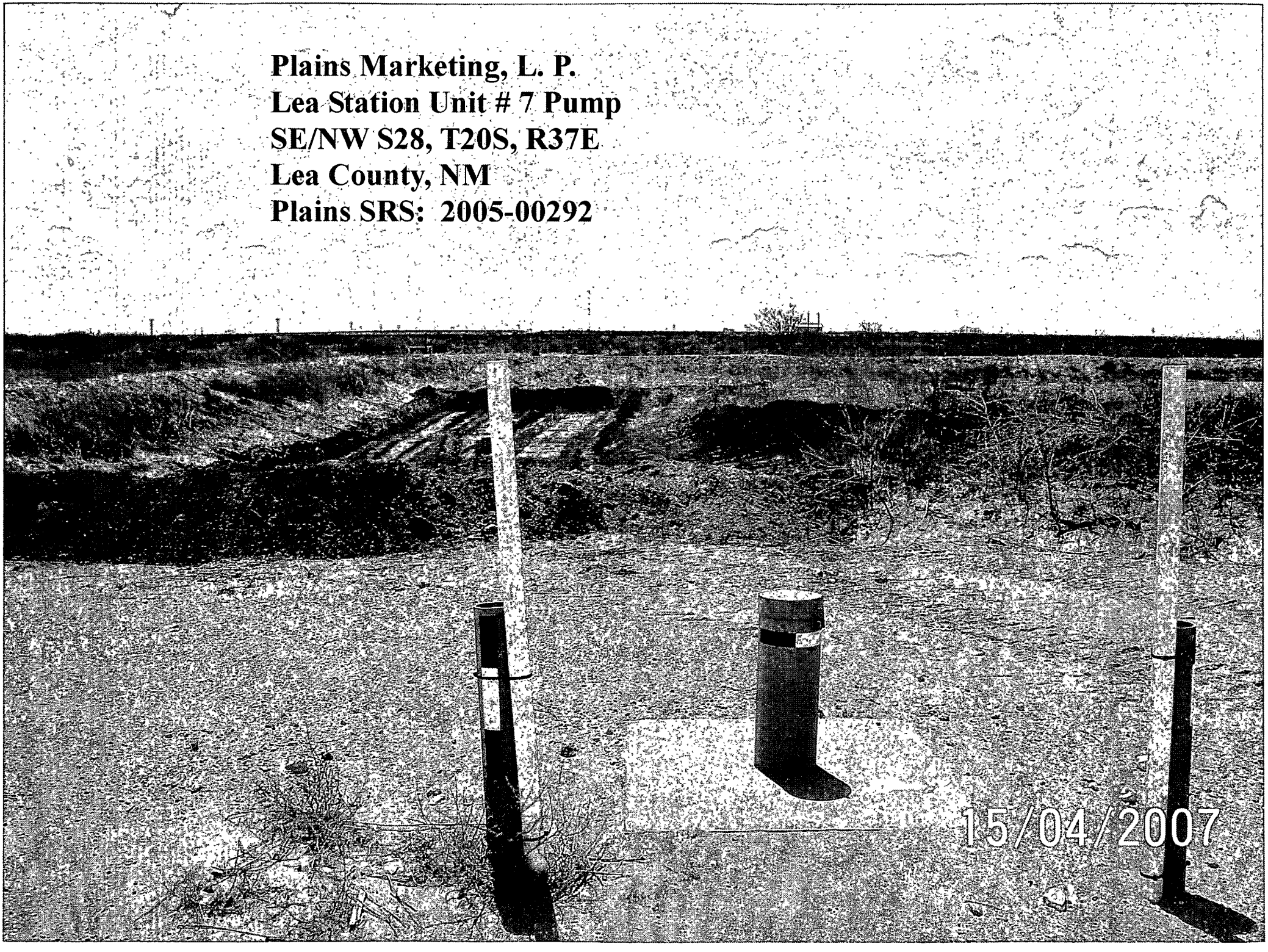

Plains Marketing, L.P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, New Mexico
SRS: 2005-292
Unit # 7 Pump Release Point
69 Feet Long by 30 Feet Wide
Exc Flr 1 Feet bgs
Lea Station Caliche Pad
168 Feet Long by 6 Feet Wide
Exc Flr 1 Feet bgs
North Floor 6' bgs
BTEX: <0.025 mg/kg
TPH: 450 mg/kg
Exc Flr 6 Feet bgs
Lea Station Caliche Pad
Caliche Pad Boundry
Berm
120 Feet Long by 35 Feet Wide
Lea Station Property
Exc Flr 2.5 Feet bgs
South Floor 2.5' bgs
BTEX: <0.025 mg/kg
TPH: 51 mg/kg
LEGEND
Soil Sampling Locations
Berm
TITLE
Figure 4
Excavation Site Map – Soil Sampling Locations
DRAWN BY
Basin Environmental Services
kad


Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS- 2005-00292
15/04/2007

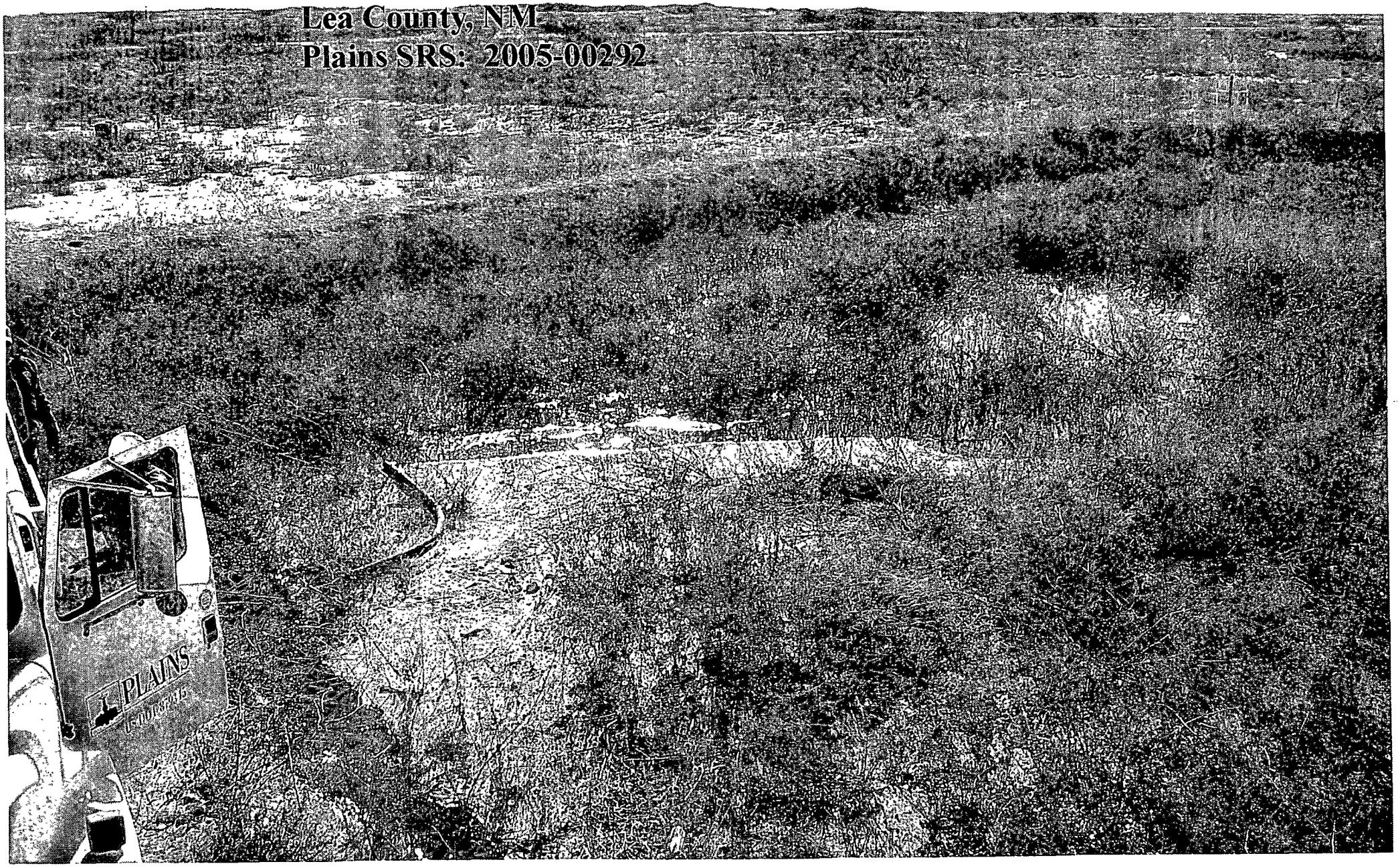

Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS: 2005-00292
15/04/2007

Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS: 2005-00292



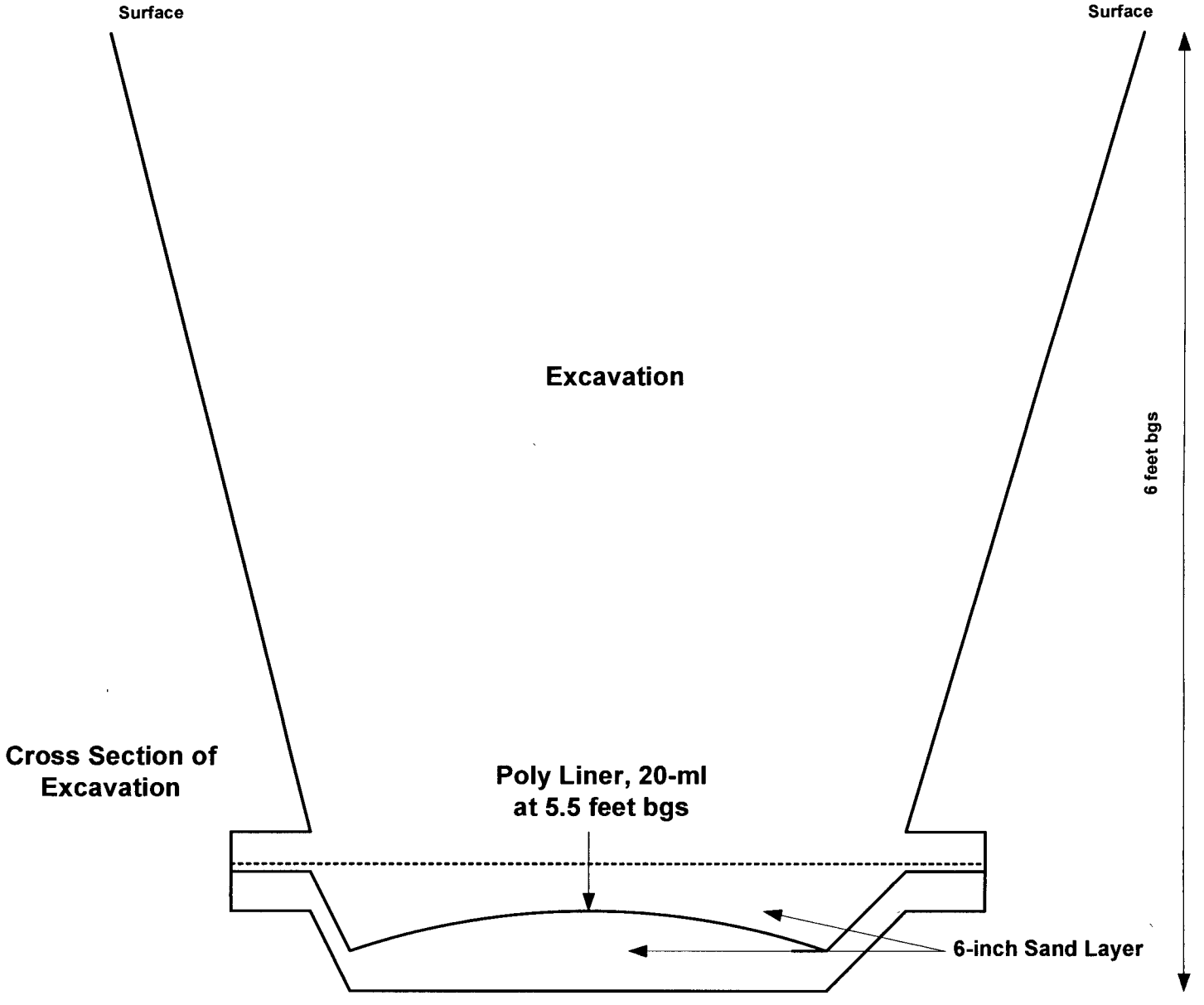

Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS: 2005-00292
15/04/2007

Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS: 2005-00292




Plains Marketing, L. P.
Lea Station Unit # 7 Pump
SE/NW S28, T20S, R37E
Lea County, NM
Plains SRS: 2005-00292

Lea Station Unit # 7 Pump
20-ml Poly-Liner Installation



TITLE Figure 6 Lea Station Unit # 7 Pump	DATE 06 June 2007
DRAWN BY Basin Environmental Services KAD	LABEL Installation of 20 ml Poly Liner

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 20S Range: 37E Sections: 28

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 11/17/2006

								(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	20S	37E	28				2	40	40	40

Record Count: 2

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lea Station Unit #7 Pump

Project Number: EMS# 2005-00292

Location: Lea County, NM

Lab Order Number: 7D30015

Report Date: 05/07/07

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXCV FLR NORTH	7D30015-01	Soil	04/30/07 08 00	04-30-2007 11 35

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

Plains All American EH & S	Project. Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EXCV FLR NORTH (7D30015-01) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EE70207	05/02/07	05/03/07	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		*101 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**10.0**	10 0	mg/kg dry	1	EE70104	05/01/07	05/03/07	EPA 8015M	
Carbon Ranges C12-C28	**316**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**123**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**450**	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*111 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EXCV FLR NORTH (7D30015-01) Soil									
% Moisture	**4.6**	0.1	%	1	EE70208	05/01/07	05/01/07	% calculation	

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

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 EE70104 - Solvent Extraction (GC)										
Blank (EE70104-BLK1)				Prepared 05/01/07 Analyzed 05/03/07						
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	"							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	*47 5*		*mg/kg*	*50 0*		*95 0*	*70-130*			
Surrogate 1-Chlorooctadecane	*54 9*		*"*	*50 0*		*110*	*70-130*			
LCS (EE70104-BS1)				Prepared 05/01/07 Analyzed 05/03/07						
Carbon Ranges C6-C12	625	10 0	mg/kg wet	500		125	75-125			
Carbon Ranges C12-C28	527	10 0	"	500		105	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00			75-125			
Total Hydrocarbons	1150	10 0	"	1000		115	75-125			
Surrogate 1-Chlorooctane	*61 5*		*mg/kg*	*50 0*		*123*	*70-130*			
Surrogate 1-Chlorooctadecane	*56 8*		*"*	*50 0*		*114*	*70-130*			
Calibration Check (EE70104-CCV1)				Prepared 05/01/07 Analyzed 05/03/07						
Carbon Ranges C6-C12	219		mg/kg	250		87 6	80-120			
Carbon Ranges C12-C28	210		"	250		84 0	80-120			
Total Hydrocarbons	429		"	500		85 8	80-120			
Surrogate 1-Chlorooctane	*56 1*		*"*	*50 0*		*112*	*70-130*			
Surrogate 1-Chlorooctadecane	*59 0*		*"*	*50 0*		*118*	*70-130*			
Matrix Spike (EE70104-MS1)	**Source: 7D30017-04**			Prepared 05/01/07 Analyzed 05/04/07						
Carbon Ranges C6-C12	645	10 0	mg/kg dry	551	13 4	115	75-125			
Carbon Ranges C12-C28	518	10 0	"	551	32 0	88 2	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	10 3		75-125			
Total Hydrocarbons	1160	10 0	"	1100	55 6	100	75-125			
Surrogate 1-Chlorooctane	*48 9*		*mg/kg*	*50 0*		*97 8*	*70-130*			
Surrogate 1-Chlorooctadecane	*43 7*		*"*	*50 0*		*87 4*	*70-130*			

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

Project Lea Station Unit #7 Pump
Project Number EMS# 2005-00292
Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE70104 - Solvent Extraction (GC)										
Matrix Spike Dup (EE70104-MSD1)	**Source: 7D30017-04**			Prepared 05/01/07 Analyzed 05/04/07						
Carbon Ranges C6-C12	659	10 0	mg/kg dry	551	13 4	117	75-125	1 72	20	
Carbon Ranges C12-C28	528	10 0	"	551	32 0	90 0	75-125	2 02	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	10 3		75-125		20	
Total Hydrocarbons	1190	10 0	"	1100	55 6	103	75-125	2 96	20	
Surrogate 1-Chlorooctane	*50 8*		*mg/kg*	*50 0*		*102*	*70-130*			
Surrogate 1-Chlorooctadecane	*45 1*		*"*	*50 0*		*90 2*	*70-130*			
Batch EE70207 - EPA 5030C (GC)										
Blank (EE70207-BLK1)				Prepared & Analyzed: 05/02/07						
Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	"							
Ethylbenzene	ND	0 00100	"							
Xylene (p/m)	ND	0 00100	"							
Xylene (o)	ND	0 00100	"							
Surrogate: a,a,a-Trifluorotoluene	*48 9*		*ug/kg*	*50 0*		*97 8*	*75-125*			
Surrogate 4-Bromofluorobenzene	*50 0*		*"*	*50 0*		*100*	*75-125*			
LCS (EE70207-BS1)				Prepared & Analyzed 05/02/07						
Benzene	0 0515	0 00100	mg/kg wet	0 0500		103	80-120			
Toluene	0 0524	0 00100	"	0 0500		105	80-120			
Ethylbenzene	0 0514	0 00100	"	0 0500		103	80-120			
Xylene (p/m)	0 0998	0 00100	"	0 100		99 8	80-120			
Xylene (o)	0 0544	0 00100	"	0 0500		109	80-120			
Surrogate a,a,a-Trifluorotoluene	*47 9*		*ug/kg*	*50 0*		*95 8*	*75-125*			
Surrogate 4-Bromofluorobenzene	*52 0*		*"*	*50 0*		*104*	*75-125*			

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

Project Lea Station Unit #7 Pump
Project Number EMS# 2005-00292
Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE70207 - EPA 5030C (GC)										
Calibration Check (EE70207-CCV1)				Prepared 05/02/07 Analyzed 05/03/07						
Benzene	51 1		ug/kg	50.0		102	80-120			
Toluene	51 6		"	50 0		103	80-120			
Ethylbenzene	52 9		"	50.0		106	80-120			
Xylene (p/m)	96 2		"	100		96 2	80-120			
Xylene (o)	53 3		"	50 0		107	80-120			
Surrogate a,a,a-Trifluorotoluene	*48.6*		"	*50 0*		*97 2*	*75-125*			
Surrogate 4-Bromofluorobenzene	*50 8*		"	*50 0*		*102*	*75-125*			
Matrix Spike (EE70207-MS1)	**Source: 7D30017-04**			Prepared 05/02/07 Analyzed 05/03/07						
Benzene	0 101	0 00200	mg/kg dry	0 110	ND	91 8	80-120			
Toluene	0 102	0 00200	"	0 110	ND	92 7	80-120			
Ethylbenzene	0 108	0 00200	"	0 110	ND	98 2	80-120			
Xylene (p/m)	0 196	0 00200	"	0 220	ND	89 1	80-120			
Xylene (o)	0 105	0 00200	"	0 110	ND	95.5	80-120			
Surrogate a,a,a-Trifluorotoluene	*44 4*		*ug/kg*	*50 0*		*88.8*	*75-125*			
Surrogate 4-Bromofluorobenzene	*46 5*		"	*50 0*		*93 0*	*75-125*			
Matrix Spike Dup (EE70207-MSD1)	**Source: 7D30017-04**			Prepared 05/02/07 Analyzed 05/03/07						
Benzene	0.0980	0 00200	mg/kg dry	0 110	ND	89 1	80-120	2 99	20	
Toluene	0.0992	0.00200	"	0 110	ND	90 2	80-120	2 73	20	
Ethylbenzene	0 105	0 00200	"	0 110	ND	95.5	80-120	2.79	20	
Xylene (p/m)	0 191	0 00200	"	0.220	ND	86 8	80-120	2 62	20	
Xylene (o)	0 102	0 00200	"	0 110	ND	92 7	80-120	2 98	20	
Surrogate a,a,a-Trifluorotoluene	*43 9*		*ug/kg*	*50 0*		*87.8*	*75-125*			
Surrogate 4-Bromofluorobenzene	*46 6*		"	*50.0*		*93 2*	*75-125*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 EE70208 - General Preparation (Prep)										
Blank (EE70208-BLK1)				Prepared & Analyzed 05/01/07						
% Solids	99 8		%							
Duplicate (EE70208-DUP1)		**Source: 7D30006-01**		Prepared & Analyzed 05/01/07						
% Solids	88 0		%		88 6			0 680	20	
Duplicate (EE70208-DUP2)		**Source: 7D30012-01**		Prepared & Analyzed 05/01/07						
% Solids	88 5		%		87 4			1 25	20	
Duplicate (EE70208-DUP3)		**Source: 7D30017-11**		Prepared & Analyzed 05/01/07						
% Solids	91 2		%		91.4			0 219	20	

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 5/7/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01 Project Name: LEA STATION UNIT 7 PUMP

Company Name: Basin Environmental Service Technologies, LLC Project #: 2005-00292

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

(lab use only)
ORDER #: 7D30015

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge; GW = Groundwater S = Soil/Sol; NP = Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260 X	RCI	N O R M	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	EXCV FLR NORTH			30-Apr-07	0800		1	X								SOIL	X								X				X

Special Instructions:

Laboratory Comments:

Sample Containers Intact?	Y	N	
VOCs Free of Headspace?	Y	N	
Labels on container(s)	Y	N	
Custody seals on container(s)	Y	N	
Custody seals on cooler(s)	Y	N	
Sample Hand Delivered by Sampler/Client Rep.?	Y	N	
by Courier? UPS DHL FedEx Lone Star			

Temperature Upon Receipt: 2.0 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	30APR07	0850	Tom Sedgwick	30APR07	0850
Tom Sedgwick	30APR07	1238			
			Received by ELOT: Jaime McMurray	04-30-07	1239

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L

Date/ Time: 04-30-07 @ 1238

Lab ID # : 7D30015

Initials: JMM

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lea Station Unit #7 Pump

Project Number: EMS# 2005-00292

Location: Lea County, NM

Lab Order Number: 7D20010

Report Date: 04/26/07

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Floor	7D20010-01	Soil	04/17/07 11 45	04-20-2007 13 00
South Floor	7D20010-02	Soil	04/17/07 12 10	04-20-2007 13 00

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

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Floor (7D20010-01) Soil									
Benzene	ND	0 0250	mg/kg dry	25	ED72406	04/24/07	04/25/07	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		*117 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	50 0	mg/kg dry	5	ED72306	04/23/07	04/25/07	EPA 8015M	
Carbon Ranges C12-C28	**201**	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**59.8**	50 0	"	"	"	"	"	"	
Total Hydrocarbons	**260**	50 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*13.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*17.1 %*	*70-130*		"	"	"	"	*S-06*
South Floor (7D20010-02) Soil									
Benzene	ND	0 00200	mg/kg dry	2	ED72406	04/24/07	04/24/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0 00200	"	"	"	"	"	"	
Xylene (o)	ND	0 00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*97.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	ED72306	04/23/07	04/25/07	EPA 8015M	
Carbon Ranges C12-C28	**51.2**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**51.2**	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*70 8 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*82.2 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Floor (7D20010-01) Soil									
% Moisture	**6.3**	0.1	%	1	ED72101	04/20/07	04/20/07	% calculation	
South Floor (7D20010-02) Soil									
% Moisture	**15.8**	0.1	%	1	ED72101	04/20/07	04/20/07	% calculation	

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

Project Lea Station Unit #7 Pump
Project Number EMS# 2005-00292
Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED72306 - Solvent Extraction (GC)										
Blank (ED72306-BLK1)				Prepared 04/23/07 Analyzed 04/24/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	*43.7*		*mg/kg*	*50.0*		*87.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.3*		*"*	*50.0*		*109*	*70-130*			
LCS (ED72306-BS1)				Prepared 04/23/07 Analyzed 04/24/07						
Carbon Ranges C6-C12	552	10.0	mg/kg wet	500		110	75-125			
Carbon Ranges C12-C28	417	10.0	"	500		83.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	969	10.0	"	1000		96.9	75-125			
Surrogate: 1-Chlorooctane	*50.0*		*mg/kg*	*50.0*		*100*	*70-130*			
Surrogate 1-Chlorooctadecane	*46.4*		*"*	*50.0*		*92.8*	*70-130*			
Calibration Check (ED72306-CCV1)				Prepared 04/23/07 Analyzed 04/25/07						
Carbon Ranges C6-C12	288		mg/kg	250		115	80-120			
Carbon Ranges C12-C28	259		"	250		104	80-120			
Total Hydrocarbons	547		"	500		109	80-120			
Surrogate 1-Chlorooctane	*52.0*		*"*	*50.0*		*104*	*70-130*			
Surrogate 1-Chlorooctadecane	*59.4*		*"*	*50.0*		*119*	*70-130*			
Matrix Spike (ED72306-MS1)	**Source: 7D20015-04**			Prepared 04/23/07 Analyzed 04/25/07						
Carbon Ranges C6-C12	588	10.0	mg/kg dry	537	ND	109	75-125			
Carbon Ranges C12-C28	538	10.0	"	537	ND	100	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1130	10.0	"	1070	ND	106	75-125			
Surrogate 1-Chlorooctane	*56.8*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.8*		*"*	*50.0*		*93.6*	*70-130*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 ED72306 - Solvent Extraction (GC)										
Matrix Spike Dup (ED72306-MSD1)	**Source: 7D20015-04**			Prepared 04/23/07 Analyzed 04/25/07						
Carbon Ranges C6-C12	621	10 0	mg/kg dry	537	ND	116	75-125	6 22	20	
Carbon Ranges C12-C28	524	10 0	"	537	ND	97 6	75-125	2 43	20	
Carbon Ranges C28-C35	ND	10.0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1150	10 0	"	1070	ND	107	75-125	0 939	20	
Surrogate. 1-Chlorooctane	*50 7*		*mg/kg*	*50 0*		*101*	*70-130*			
Surrogate 1-Chlorooctadecane	*52 7*		*"*	*50 0*		*105*	*70-130*			
Batch ED72406 - EPA 5030C (GC)										
Blank (ED72406-BLK1)				Prepared & Analyzed 04/24/07						
Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	"							
Ethylbenzene	ND	0 00100	"							
Xylene (p/m)	ND	0 00100	"							
Xylene (o)	ND	0 00100	"							
Surrogate a,a,a-Trifluorotoluene	*58 2*		*ug/kg*	*50 0*		*116*	*75-125*			
Surrogate 4-Bromofluorobenzene	*60 0*		*"*	*50 0*		*120*	*75-125*			
LCS (ED72406-BS1)				Prepared 04/24/07 Analyzed 04/25/07						
Benzene	0 0556	0 00100	mg/kg wet	0 0500		111	80-120			
Toluene	0 0588	0 00100	"	0 0500		118	80-120			
Ethylbenzene	0 0597	0 00100	"	0 0500		119	80-120			
Xylene (p/m)	0 115	0 00100	"	0 100		115	80-120			
Xylene (o)	0 0593	0 00100	"	0 0500		119	80-120			
Surrogate a,a,a-Trifluorotoluene	*59 6*		*ug/kg*	*50 0*		*119*	*75-125*			
Surrogate 4-Bromofluorobenzene	*58 4*		*"*	*50 0*		*117*	*75-125*			

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 ED72406 - EPA 5030C (GC)										
Calibration Check (ED72406-CCV1)				Prepared 04/24/07 Analyzed 04/25/07						
Benzene	53 2		ug/kg	50 0		106	80-120			
Toluene	54 4		"	50 0		109	80-120			
Ethylbenzene	55 6		"	50 0		111	80-120			
Xylene (p/m)	106		"	100		106	80-120			
Xylene (o)	57 5		"	50 0		115	80-120			
Surrogate a,a,a-Trifluorotoluene	*54 1*		"	*50 0*		*108*	*75-125*			
Surrogate 4-Bromofluorobenzene	*54 6*		"	*50 0*		*109*	*75-125*			
Matrix Spike (ED72406-MS1)	**Source: 7D20009-03**			Prepared 04/24/07 Analyzed 04/25/07						
Benzene	0 102	0 00200	mg/kg dry	0 103	ND	99 0	80-120			
Toluene	0 110	0 00200	"	0 103	ND	107	80-120			
Ethylbenzene	0 107	0 00200	"	0 103	ND	104	80-120			
Xylene (p/m)	0 208	0 00200	"	0 206	ND	101	80-120			
Xylene (o)	0 113	0 00200	"	0.103	ND	110	80-120			
Surrogate a,a,a-Trifluorotoluene	*50 4*		*ug/kg*	*50 0*		*101*	*75-125*			
Surrogate 4-Bromofluorobenzene	*52.6*		"	*50 0*		*105*	*75-125*			
Matrix Spike Dup (ED72406-MSD1)	**Source: 7D20009-03**			Prepared 04/24/07 Analyzed 04/25/07						
Benzene	0 0977	0 00200	mg/kg dry	0 103	ND	94 9	80-120	4 23	20	
Toluene	0 103	0 00200	"	0.103	ND	100	80-120	6 76	20	
Ethylbenzene	0 108	0 00200	"	0 103	ND	105	80-120	0 957	20	
Xylene (p/m)	0 201	0.00200	"	0 206	ND	97 6	80-120	3 42	20	
Xylene (o)	0 109	0 00200	"	0 103	ND	106	80-120	3 70	20	
Surrogate a,a,a-Trifluorotoluene	*49 5*		*ug/kg*	*50 0*		*99 0*	*75-125*			
Surrogate 4-Bromofluorobenzene	*51 5*		"	*50 0*		*103*	*75-125*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 ED72101 - General Preparation (Prep)										
Blank (ED72101-BLK1)				Prepared & Analyzed 04/20/07						
% Solids	100		%							
Duplicate (ED72101-DUP1)		**Source: 7D19008-01**		Prepared & Analyzed 04/20/07						
% Solids	96 8		%		96 5			0.310	20	
Duplicate (ED72101-DUP2)		**Source: 7D19008-21**		Prepared & Analyzed 04/20/07						
% Solids	86 7		%		88 0			1 49	20	
Duplicate (ED72101-DUP3)		**Source: 7D20007-01**		Prepared & Analyzed 04/20/07						
% Solids	89 2		%		89 1			0 112	20	

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
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: Brent Barron Date: 4/26/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Ken Dutton PAGE 01 OF 01

Project Name: LEA STATION UNIT 7 PUMP

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2005-00292

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: BL Blakewood e-mail: kdutton@basinenv.com

(lab use only)

ORDER #: 7D20010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge GW = Groundwater S = Soil/Solid NP = Non-Potable Specify Other	Analyze For: TCLP: TPH: 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	NORM	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	NORTH FLOOR			17-Apr-07	1145		1	X								SOIL	X								X				X
02	SOUTH FLOOR			17-Apr-07	1210		1	X								SOIL	X								X				X

2811999

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
BL Blakewood	2/17/2007	0900	Lynda Blackwood	4-20-07	9:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Lynda Blackwood	4/20/07	1:00	Received by ELOT:	4-20-07	1:00

Laboratory Comments:

Sample Containers Intact? (Y) N

VOCs Free of Headspace? (Y) N

Labels on container(s) (Y) N

Custody seals on container(s) (N) N

Custody seals on cooler(s) (Y) N

Sample Hand Delivered by Sampler/Client Rep. ? (N) N

by Courier? UPS DHL FedEx Lone Star

4629 1655

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. Srvs. Tech.

Date/ Time. 4-20-07 1:00

Lab ID #: 7D20010

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lea Station Unit #7 Pump

Project Number: EMS# 2005-00292

Location: Lea County, NM

Lab Order Number: 7A29020

Report Date: 02/05/07

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number. EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STCKPL	7A29020-01	Soil	01/26/07 08 00	01-29-2007 13 30
EXCV FLR S	7A29020-02	Soil	01/26/07 08 30	01-29-2007 13 30
EXCV FLR N	7A29020-03	Soil	01/26/07 09 00	01-29-2007 13 30

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

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STCKPL (7A29020-01) Soil									
Carbon Ranges C6-C12	**J [20.9]**	50.0	mg/kg dry	5	EA72907	01/29/07	02/01/07	EPA 8015M	J
Carbon Ranges C12-C28	**592**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**324**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**916**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*19.7 %*	*70-130*		"	"	"	"	*S-06*
Surrogate 1-Chlorooctadecane		*21.6 %*	*70-130*		"	"	"	"	*S-06*
EXCV FLR S (7A29020-02) Soil									
Carbon Ranges C6-C12	**J [7.72]**	10.0	mg/kg dry	1	EA72907	01/29/07	02/02/07	EPA 8015M	J
Carbon Ranges C12-C28	**130**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**85.1**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**215**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.8 %*	*70-130*		"	"	"	"	
EXCV FLR N (7A29020-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72907	01/29/07	02/01/07	EPA 8015M	
Carbon Ranges C12-C28	**153**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**109**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**262**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STCKPL (7A29020-01) Soil									
% Moisture	**7.5**	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	
EXCV FLR S (7A29020-02) Soil									
% Moisture	**4.8**	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	
EXCV FLR N (7A29020-03) Soil									
% Moisture	**6.2**	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	

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

Project Lea Station Unit #7 Pump
Project Number EMS# 2005-00292
Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA72907 - Solvent Extraction (GC)										
Blank (EA72907-BLK1)				Prepared 01/29/07 Analyzed 02/02/07						
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	"							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	*52 1*		*mg/kg*	*50 0*		*104*	*70-130*			
Surrogate 1-Chlorooctadecane	*57 7*		*"*	*50.0*		*115*	*70-130*			
LCS (EA72907-BS1)				Prepared 01/29/07 Analyzed: 02/01/07						
Carbon Ranges C6-C12	538	10 0	mg/kg wet	500		108	75-125			
Carbon Ranges C12-C28	493	10 0	"	500		98 6	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00			75-125			
Total Hydrocarbons	1030	10 0	"	1000		103	75-125			
Surrogate 1-Chlorooctane	*55 5*		*mg/kg*	*50 0*		*111*	*70-130*			
Surrogate. 1-Chlorooctadecane	*56 5*		*"*	*50 0*		*113*	*70-130*			
Calibration Check (EA72907-CCV1)				Prepared 01/29/07 Analyzed 02/01/07						
Carbon Ranges C6-C12	205		mg/kg	250		82 0	80-120			
Carbon Ranges C12-C28	231		"	250		92 4	80-120			
Total Hydrocarbons	435		"	500		87 0	80-120			
Surrogate· 1-Chlorooctane	*57 5*		*"*	*50 0*		*115*	*70-130*			
Surrogate 1-Chlorooctadecane	*56 7*		*"*	*50 0*		*113*	*70-130*			
Matrix Spike (EA72907-MS1)	**Source: 7A29022-01**			Prepared 01/29/07 Analyzed 02/01/07						
Carbon Ranges C6-C12	610	10 0	mg/kg dry	640	ND	95 3	75-125			
Carbon Ranges C12-C28	607	10 0	"	640	ND	94 8	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	1220	10 0	"	1280	ND	95 3	75-125			
Surrogate 1-Chlorooctane	*53 5*		*mg/kg*	*50 0*		*107*	*70-130*			
Surrogate 1-Chlorooctadecane	*48 4*		*"*	*50 0*		*96 8*	*70-130*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 EA72907 - Solvent Extraction (GC)										
Matrix Spike Dup (EA72907-MSD1)	**Source: 7A29022-01**			Prepared 01/29/07 Analyzed 02/01/07						
Carbon Ranges C6-C12	617	10 0	mg/kg dry	640	ND	96 4	75-125	1 15	20	
Carbon Ranges C12-C28	623	10 0	"	640	ND	97 3	75-125	2 60	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1240	10 0	"	1280	ND	96 9	75-125	1 66	20	
Surrogate 1-Chlorooctane	*55 4*		*mg/kg*	*50 0*		*111*	*70-130*			
Surrogate 1-Chlorooctadecane	*48 1*		*"*	*50 0*		*96 2*	*70-130*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

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 EA73001 - General Preparation (Prep)										
Blank (EA73001-BLK1)				Prepared: 01/29/07 Analyzed 01/30/07						
% Solids	100		%							
Duplicate (EA73001-DUP1)		**Source: 7A26014-01**		Prepared 01/29/07 Analyzed. 01/30/07						
% Solids	89 5		%		96 3			7.32	20	
Duplicate (EA73001-DUP2)		**Source: 7A29002-02**		Prepared. 01/29/07 Analyzed 01/30/07						
% Solids	88 4		%		88 4			0 00	20	
Duplicate (EA73001-DUP3)		**Source: 7A29011-01**		Prepared 01/29/07 Analyzed 01/30/07						
% Solids	86 7		%		85 6			1 28	20	
Duplicate (EA73001-DUP4)		**Source: 7A29022-04**		Prepared: 01/29/07 Analyzed 01/30/07						
% Solids	82 5		%		82 9			0 484	20	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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: Celey D. Keene Date: 02/05/07

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01 Project Name: LEA STATION UNIT 7 PUMP

Company Name: Basin Environmental Service Technologies, LLC Project #: 2005-00292

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton e-mail: kad@basinenv.com

(lab use only)
ORDER #: 7A29020

4oz glass

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Sol	NP = Non-Potable Specify Other	Analyze For: TCLP: TPH 418.1 (8015M) 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
01	STCKPL			26-Jan-07	0800		1	X								SOIL			X								X				X
02	EXCV FLR S			26-Jan-07	0830		1	X								SOIL			X								X				X
03	EXCV FLR N			26-Jan-07	0900		1	X								SOIL			X								X				X

Special Instructions:
NOTE: RUN BTEX ANALYSIS (8021B) IF TPH IS <100 PPM D

RS

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	29 Jan 07	0930	Linda Blackwood	1-29-07	9:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Linda Blackwood	1-29-07	1:30	Received by ELOT: Cheri Kelly	1/29/07	1:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	NA	N
by Courier? UPS DHL FedEx Lone Star	Y	N

Temperature Upon Receipt: 1.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ient: Plains

ate/ Time: 1/29/07 1:30

ab ID # : 7A29020

itials: LK

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

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: Lea Station Unit #7 Pump

Project Number: EMS# 2005-00292

Location: Lea Co., NM

Lab Order Number: 6C28013

Report Date: 04/03/06

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	**Reported:**
Midland TX, 79706-4476	Project Manager Camille Reynolds	04/03/06 14 19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile	6C28013-01	Soil	03/25/06 10 30	03/28/06 11 45

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

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	**Reported:**
Midland TX, 79706-4476	Project Manager Camille Reynolds	04/03/06 14 19

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (6C28013-01) Soil									
Benzene	**0.209**	0 0500	mg/kg dry	50	EC63115	03/31/06	04/02/06	EPA 8021B	
Toluene	**4.12**	0 0500	"	"	"	"	"	"	
Ethylbenzene	**6.50**	0 0500	"	"	"	"	"	"	
Xylene (p/m)	**13.6**	0 0500	"	"	"	"	"	"	
Xylene (o)	**6.49**	0 0500	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*148 %*	*80-120*		"	"	"	"	*S-04*
Surrogate. 4-Bromofluorobenzene		*152 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**2240**	20 0	mg/kg dry	2	EC62907	03/29/06	03/30/06	EPA 8015M	
Carbon Ranges C12-C28	**9140**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1230**	20 0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**12600**	20 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*72.6 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*61.8 %*	*70-130*		"	"	"	"	*S-06*

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

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	**Reported:**
Midland TX, 79706-4476	Project Manager Camille Reynolds	04/03/06 14 19

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (6C28013-01) Soil									
% Moisture	**2.0**	0 1	%	1	EC62905	03/28/06	03/29/06	% calculation	

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

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 EC62907 - Solvent Extraction (GC)										
Blank (EC62907-BLK1)				Prepared & Analyzed 03/29/06						
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 C6-C35	ND	10 0	"							
Surrogate· 1-Chlorooctane	*49 0*		*mg/kg*	*50 0*		*98 0*	*70-130*			
Surrogate 1-Chlorooctadecane	*50 5*		*"*	*50.0*		*101*	*70-130*			
LCS (EC62907-BS1)				Prepared 03/29/06 Analyzed 03/31/06						
Carbon Ranges C6-C12	476	10 0	mg/kg wet	500		95 2	75-125			
Carbon Ranges C12-C28	457	10 0	"	500		91 4	75-125			
Total Hydrocarbon C6-C35	933	10 0	"	1000		93 3	75-125			
Surrogate 1-Chlorooctane	*55 3*		*mg/kg*	*50 0*		*111*	*70-130*			
Surrogate 1-Chlorooctadecane	*51 0*		*"*	*50 0*		*102*	*70-130*			
Calibration Check (EC62907-CCV1)				Prepared 03/29/06 Analyzed 03/30/06						
Carbon Ranges C6-C12	270		mg/kg	250		108	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon C6-C35	567		"	500		113	80-120			
Surrogate 1-Chlorooctane	*62 5*		*"*	*50 0*		*125*	*70-130*			
Surrogate. 1-Chlorooctadecane	*60 6*		*"*	*50 0*		*121*	*70-130*			
Matrix Spike (EC62907-MS1)	**Source: 6C28010-06**			Prepared & Analyzed· 03/29/06						
Carbon Ranges C6-C12	556	10 0	mg/kg dry	531	ND	105	75-125			
Carbon Ranges C12-C28	542	10 0	"	531	ND	102	75-125			
Total Hydrocarbon C6-C35	1100	10 0	"	1060	ND	104	75-125			
Surrogate 1-Chlorooctane	*63 3*		*mg/kg*	*50 0*		*127*	*70-130*			
Surrogate· 1-Chlorooctadecane	*58 2*		*"*	*50 0*		*116*	*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 EC62907 - Solvent Extraction (GC)										
Matrix Spike Dup (EC62907-MSD1)	**Source: 6C28010-06**			Prepared & Analyzed 03/29/06						
Carbon Ranges C6-C12	558	10 0	mg/kg dry	531	ND	105	75-125	0 359	20	
Carbon Ranges C12-C28	543	10 0	"	531	ND	102	75-125	0 184	20	
Total Hydrocarbon C6-C35	1100	10 0	"	1060	ND	104	75-125	0 00	20	
Surrogate 1-Chlorooctane	*63 4*		*mg/kg*	*50 0*		*127*	*70-130*			
Surrogate. 1-Chlorooctadecane	*58 4*		*"*	*50 0*		*117*	*70-130*			
Batch EC63115 - EPA 5030C (GC)										
Blank (EC63115-BLK1)				Prepared & Analyzed 03/31/06						
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	*39 6*		*ug/kg*	*40 0*		*99 0*	*80-120*			
Surrogate 4-Bromofluorobenzene	*36 6*		*"*	*40 0*		*91 5*	*80-120*			
LCS (EC63115-BS1)				Prepared & Analyzed 03/31/06						
Benzene	1 15	0 0250	mg/kg wet	1.25		92 0	80-120			
Toluene	1 07	0.0250	"	1 25		85 6	80-120			
Ethylbenzene	1 20	0.0250	"	1 25		96 0	80-120			
Xylene (p/m)	2 44	0 0250	"	2 50		97 6	80-120			
Xylene (o)	1 17	0 0250	"	1 25		93 6	80-120			
Surrogate a,a,a-Trifluorotoluene	*41 5*		*ug/kg*	*40 0*		*104*	*80-120*			
Surrogate 4-Bromofluorobenzene	*35 7*		*"*	*40 0*		*89 2*	*80-120*			
Calibration Check (EC63115-CCV1)				Prepared 03/31/06 Analyzed 04/03/06						
Benzene	45 7		ug/kg	50 0		91 4	80-120			
Toluene	43 5		"	50 0		87 0	80-120			
Ethylbenzene	47 8		"	50 0		95.6	80-120			
Xylene (p/m)	98 1		"	100		98 1	80-120			
Xylene (o)	47 6		"	50 0		95 2	80-120			
Surrogate a,a,a-Trifluorotoluene	*41 4*		*"*	*40.0*		*104*	*80-120*			
Surrogate 4-Bromofluorobenzene	*37 1*		*"*	*40 0*		*92 8*	*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 EC63115 - EPA 5030C (GC)										
Matrix Spike (EC63115-MS1)	**Source: 6C28009-02**			Prepared 03/31/06 Analyzed 04/02/06						
Benzene	1 10	0 0250	mg/kg dry	1 27	ND	86 6	80-120			
Toluene	1 05	0 0250	"	1 27	ND	82 7	80-120			
Ethylbenzene	1 14	0 0250	"	1 27	ND	89 8	80-120			
Xylene (p/m)	2 35	0 0250	"	2 55	ND	92 2	80-120			
Xylene (o)	1 13	0 0250	"	1 27	ND	89 0	80-120			
Surrogate a,a,a-Trifluorotoluene	*44 3*		*ug/kg*	*40 0*		*111*	*80-120*			
Surrogate 4-Bromofluorobenzene	*33 7*		*"*	*40 0*		*84 2*	*80-120*			
Matrix Spike Dup (EC63115-MSD1)	**Source: 6C28009-02**			Prepared 03/31/06 Analyzed 04/02/06						
Benzene	1 15	0 0250	mg/kg dry	1 27	ND	90 6	80-120	4 51	20	
Toluene	1 07	0.0250	"	1 27	ND	84 3	80-120	1 92	20	
Ethylbenzene	1.19	0.0250	"	1 27	ND	93 7	80-120	4.25	20	
Xylene (p/m)	2 38	0 0250	"	2 55	ND	93 3	80-120	1 19	20	
Xylene (o)	1.17	0 0250	"	1 27	ND	92 1	80-120	3 42	20	
Surrogate a,a,a-Trifluorotoluene	*45 4*		*ug/kg*	*40 0*		*114*	*80-120*			
Surrogate 4-Bromofluorobenzene	*37 8*		*"*	*40 0*		*94 5*	*80-120*			

Plains All American EH & S	Project Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2005-00292	**Reported:**
Midland TX, 79706-4476	Project Manager Camille Reynolds	04/03/06 14:19

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 EC62905 - General Preparation (Prep)										
Blank (EC62905-BLK1)				Prepared 03/28/06 Analyzed 03/29/06						
% Solids	100		%							
Duplicate (EC62905-DUP1)		**Source: 6C27008-01**		Prepared 03/28/06 Analyzed 03/29/06						
% Solids	93 2		%		93 4			0 214	20	
Duplicate (EC62905-DUP2)		**Source: 6C28002-03**		Prepared 03/28/06 Analyzed 03/29/06						
% Solids	97 5		%		97 5			0 00	20	
Duplicate (EC62905-DUP3)		**Source: 6C28010-03**		Prepared 03/28/06 Analyzed 03/29/06						
% Solids	88 3		%		88 2			0 113	20	

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

Plains All American EH & S	Project	Lea Station Unit #7 Pump	Fax (432) 687-4914
1301 S County Road 1150	Project Number	EMS# 2005-00292	**Reported:**
Midland TX, 79706-4476	Project Manager	Camille Reynolds	04/03/06 14 19

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
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: 4/3/2006

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.

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

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton
Company Name: Basin Environmental
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: 505-441-2124
Fax No: 505-396-1429
Sampler Signature: [signature]

Project Name: Lea Station Unit #7 Pump
Project #: EMS#2005-00292
Project Loc: Lea Co., NM
PO #: PAA / C. Reynolds

LAB # (lab use only) 6C28013	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 (TOTAL: X)	RCI	N.O.R.M.	Total Gamma				RUSH TAT (Pre-Schedule)	Standard TAT
-01	Stck Pile	3/25/06	1030	1	X									X		X							X								X

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments: 2.0
4oz glass w/ seal jar / label

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3/28/06	1145			
Relinquished by:	Date	Time	Received by ELOT: Carrie Kelly	3/28/06	11:45

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

Client: Plains

Date/Time: 3/28/12 11:45

Order #: 1028013

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:

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☒ No ☐	4. Generator **Plains Pipeline** 5. Originating Site **Lea Station Unit #7 Pump Ref# 2005-00292**
2. Management Facility Destination: Plains All American Lea Station Land Farm #GW-351	6. Transporter
3. Address of Facility Operator: Environmental Plus, Inc.	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	**UL- F SE¼ of the NW¼ of Section 28 T20S R37E**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.
All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

(39x14) D

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) 546 cy

SIGNATURE Camille Reynolds TITLE: Environmental Coordinator DATE: 8/22/06
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Camille Reynolds TELEPHONE NO. 505-441-0965

(This space for State Use)

APPROVED BY: [signature] TITLE Compliance Officer DATE: 8/22/06

APPROVED BY: _____ TITLE: _____ DATE: _____

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 Repor

Name of Company Plains Pipeline, LP	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Lea Station Unit #7 Pump	Facility Type Pipeline pump

Surface Owner Plains	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	20S	37E					Lea

Latitude 32° 32' 47.7" **Longitude** 103° 15' 30.2"

NATURE OF RELEASE

Type of Release Sour Crude Oil	Volume of Release 95 barrels	Volume Recovered 81 barrels
Source of Release Pump	Date and Hour of Occurrence 12-08-05 @6:45	Date and Hour of Discovery 12-08-05@ 7:00
Was Immediate Notice Given? x Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 12-08-05@13:45	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
DEC 2005
Receiver
Hobbs
OCD

Describe Cause of Problem and Remedial Action Taken.* Mechanical seal failure on pump caused release of sour crude oil. The unit was shutdown and the seal was replaced. The gravity of the crude oil is 37 with an H_2S content of less than 10 parts per million. The unit pumps approximately 8,000 barrels of oil per day.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. The aerial extent of surface impact was approximately 9,375 square feet.

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:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: / Attached ☐
Date: 12-09-05 Phone:505-441-0965	

* Attach Additional Sheets If Necessary

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 Repor

Name of Company Plains Pipeline, LP	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Lea Station Unit #7 Pump	Facility Type Pipeline pump

Surface Owner Plains	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	20S	37E					Lea

29'

Latitude 32° 32' 47.7" **Longitude** 103° 15' 30.2"

NATURE OF RELEASE

Type of Release Sour Crude Oil	Volume of Release 95 barrels	Volume Recovered 81 barrels
Source of Release Pump	Date and Hour of Occurrence 12-08-05 @6:45	Date and Hour of Discovery 12-08-05@ 7:00
Was Immediate Notice Given? x Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 12-08-05@13:45	
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.* Mechanical seal failure on pump caused release of sour crude oil. The unit was shutdown and the seal was replaced. The gravity of the crude oil is 37 with an H_2S content of less than 10 parts per million. The unit pumps approximately 8,000 barrels of oil per day.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. The aerial extent of surface impact was approximately 9,375 square feet

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~~ ENVIRO ENGR:
Title: Remediation Coordinator	Approval Date: 12.21.06 Expiration Date: 3.21.06
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: Attached ☐
Date: 12-09-05 Phone:505-441-0965	

* Attach Additional Sheets If Necessary

Facility - fPAC0635551010
Incident - nPAC0635551138
Application - pPAC0635551218

RP# 1157