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

IRP-301
11.7.05

REVISED
PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE PLAN

JERGAL APPROVED 11.7.05

PLAINS MARKETING, L.P.
Lovington Pump Station
Lea County, New Mexico
Plains EMS # 2005-00015
UNIT D (NW/NW), Section 16, Township 17 South, Range 37 East
Latitude 32°, 50', 30.7" North, Longitude 103°, 15', 45.3" West

Prepared For:

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

NOV 2005
Received
Hobbs
OCD

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

31 October 2005

Ken Dutton
Basin Environmental Service Technologies, LLC

Table of Contents

Figures

Tables

Appendices

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a crude oil release for Plains Marketing, L.P. (Plains), located at the Lovington Pump Station on 14 January 2005. The equipment malfunction was repaired and excavation of the impacted soil was initiated and impacted soil was stockpiled on a 6-mil poly-liner.

This site is located in Unit D (NW/NW), Section 16, Township 17 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The latitude is 32°, 50', 30.7" North, and longitude is 103°, 15', 45.3" West. The site is characterized as an operational pipeline pumping station containing various pieces of crude oil pumping equipment. The visually stained area included the release point and covered an area approximately 15 feet long by 20 feet wide. It is estimated 6 barrels of crude oil were released from the Lovington Pump Station and 0 barrels were recovered.

Plains Pipeline operations personnel marked their respective lines inside the pumping station before excavation activities commenced.

Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1 was verbally notified of the release on 14 January 2005. Mr. Leon Anderson and Ms. Myra Meyers, New Mexico State Land Office (NMSLO), Hobbs Office, were notified 14 January 2005. A Right of Entry Permit was not required as the crude oil release occurred in a Plains leased area.

SUMMARY OF FIELD ACTIVITIES

On 14 January 2005, Basin arrived at the Lovington Pump Station crude oil release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After repairing the malfunctioning equipment, excavation of the impacted soil was initiated. The visually stained area was approximately 15 feet long by 20 feet wide and extended to approximately 5 feet below ground surface (bgs) at the release point.

On 26 January 2005, Basin excavated the release point area to a depth of 14 feet bgs attempting to delineate the vertical and horizontal extent of crude oil impacted soil at the release point (see Site Map, Figure 2). Photoionization Detector (PID) readings indicate elevated concentrations of Volatile Organic Compounds (VOC) remain in place. The delineation trench was backfilled to a depth of 5 feet bgs due to operational and safety concerns. Approximately 75 cubic yards of impacted soil was excavated and stockpiled on-site as a result of this delineation activity.

On 05 May 2005, Basin installed four soil borings utilizing Straub Corporation, of Stanton, Texas, collecting soil samples every 5 feet in order to delineate the horizontal and vertical nature and extent of crude oil impacted soil at the pipeline

release (see Site Map, Figure 2). The soil borings were installed adjacent to the release point, up gradient, down gradient and cross gradient to ensure effective delineation of the site. The soil borings ranged in depth from 68 feet bgs to 20 feet bgs (soil boring logs are attached as Appendix C). Each sample was screened with a PID, which was calibrated on 05 May 2005. The selected soil samples were analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO).

On 14 October 2005, Basin excavated the release point area to a depth of approximately 12 feet bgs and expanded the original excavation to an area approximately 21 feet long by 24 feet wide. Confirmation soil samples were collected from the excavation 17 October 2005. The soil samples were analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Approximately 300 cubic yards of impacted soil was excavated and stockpiled on-site as a result of this delineation activity.

New Mexico Oil Conservation Division (NMOCD) Soil Classification

Actual groundwater gauging data obtained from the Plains Moore to Jal # 2 remediation site, located less than one-half mile to the south, southeast, indicates the depth to groundwater ranges from 77 feet to 79 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 10 -19, which sets the remediation levels at:

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

The above criterion is assumed and may be adjusted based on the actual results of the soil delineation activities.

Distribution of Hydrocarbons in the Unsaturated Zone

The release point and visually stained area has been excavated to a depth of approximately 12 feet bgs and evidence of crude oil impact still exists on the floor and sidewalls at the release point. Analytical results and PID readings indicate elevated concentrations of VOC's remain in place. The five confirmation soil samples from the sidewalls and excavation floor were collected at a depth of approximately 6 and 12 feet bgs, respectively. Analytical results indicated that BTEX concentrations were below NMOCD regulatory standards for all sidewall samples and the excavation floor soil sample. Analytical results indicated that BTEX concentrations were not detected above the laboratory method detection limits on the

north sidewall, south sidewall and west sidewall soil samples. Analytical results indicated that detectable TPH concentrations exceeded NMOCD regulatory standards for the release point excavation east sidewall and excavation floor soil samples at 2530 mg/kg and 4950 mg/kg, respectively. Analytical results indicated that detectable TPH concentrations were below NMOCD regulatory standards on the west sidewall soil sample and were not detected above the laboratory method detection limits on the north sidewall and south sidewall soil samples. Approximately 300 cubic yards of impacted soil was excavated and stockpiled on a 6-mil poly-liner.

A drill rig was utilized to delineate the horizontal and vertical extent of crude oil impacted soil. The four soil borings were installed adjacent to the release point, up gradient, down gradient and cross gradient to ensure effective delineation of the site. Soil samples were collected in the subsurface from the soil borings at 5 feet intervals. No visual observations of free phase hydrocarbons were encountered during the installation of the four soil borings. PID field screenings were utilized to determine which soil samples were to be submitted to the laboratory for analysis. Selected soil samples were analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached as Appendix B.

Soil Boring 1, as depicted on the Site Map (Figure 2) was installed adjacent to the release point. Due to the numerous pipelines and electrical conduit lines at and around the release point, the soil boring could not be installed at the exact release point due to safety concerns. Soil samples collected at 10, 20 and 30 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits from these three soil samples. Soil Boring 1 was advanced to a total depth below surface of 68 feet bgs. PID field readings for the soil samples collected at 5 feet intervals from Soil Boring 1 were all less than 5 ppm to total depth.

Soil Boring 2, as depicted on the Site Map (Figure 2) was installed up gradient of the release point. Soil samples collected at the 10 and 20 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits from these two soil samples.

Soil Boring 3, as depicted on the Site Map (Figure 2) was installed down gradient of the release point. Soil samples collected at the 10 and 20 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits from these two soil samples.

Soil Boring 4, as depicted on the Site Map (Figure 2) was installed cross gradient of the release point. Soil samples collected at the 10 and 20 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits from these two soil samples.

RECOMMENDATIONS FOR DELINEATION/REMEDIATION

Approximately 300 cubic yards of impacted soil has been excavated and stockpiled on-site resulting from the emergency response and equipment repair. Based on the results of the soil delineation investigation which indicate the impacted soils are limited in extent and Lovington Pump Station being an operational location, Basin and Plains requests approval from the NMOCD and NMSLO to install an impermeable 40-ml poly liner at the release point (see Figure 4, Installation of 40-ml Poly Liner). The impermeable liner, approximately 25 feet wide by 22 feet long, will mitigate vertical migration of contaminates 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. The stockpiled material will be transported to the Lea Station Landfarm and clean soil will be transported to the site and utilized as backfill material. Upon cessation of operational activities at Lovington Pump Station, Plains will remediate the area to NMOCD regulatory standards as required.

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

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
214 W. C-61
Hobbs, New Mexico 88240
cjreynolds@paalp.com

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

Copy 4:
New Mexico State Land Office
P. O. Box 1148
Santa Fe, New Mexico 87404-1148
cmorrow@slo.state.nm.us

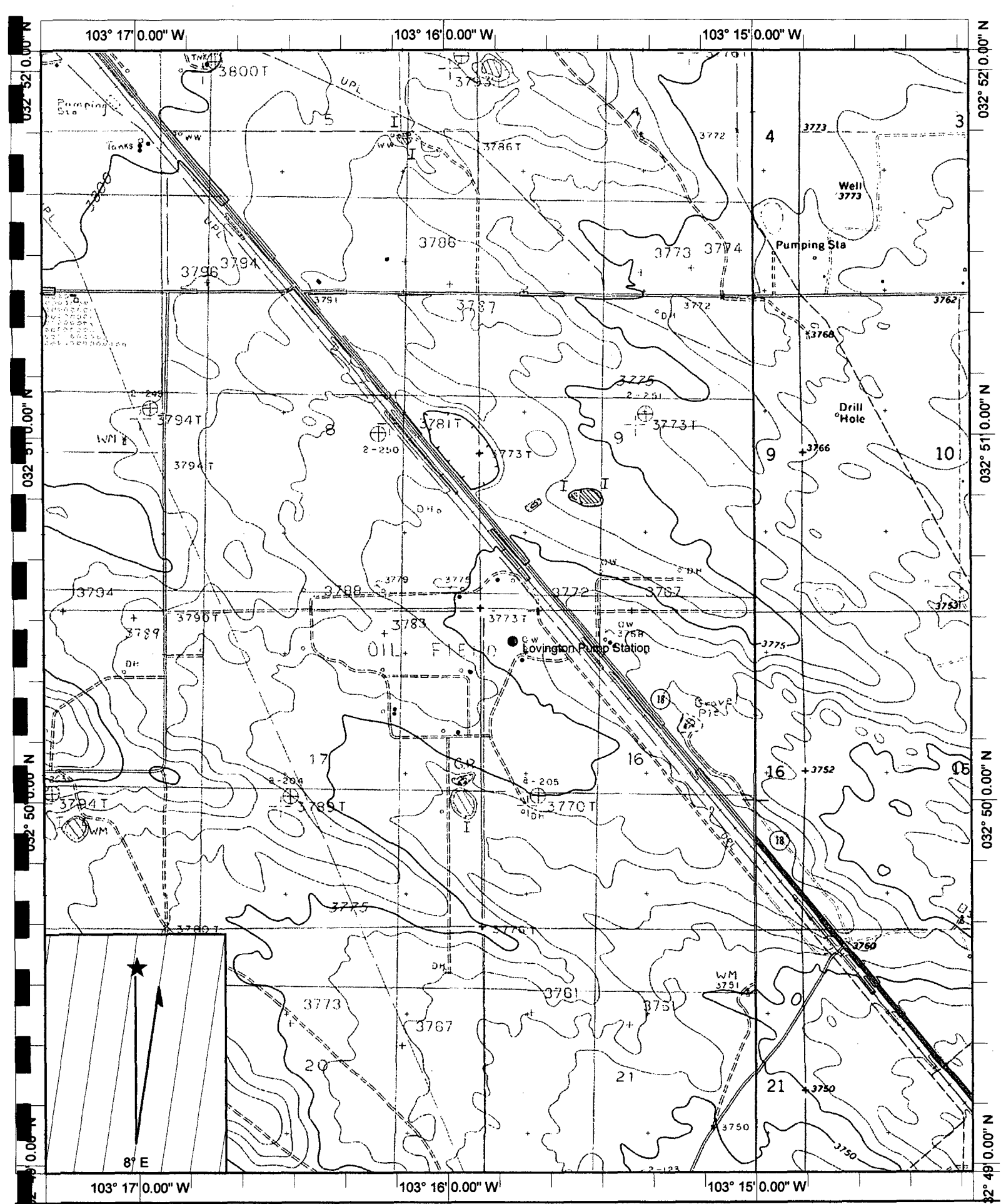
Copy 5:
Basin Environmental Service Technologies LLC
P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com

Copy 3

FIGURES

FIGURE 1

SITE LOCATION MAP



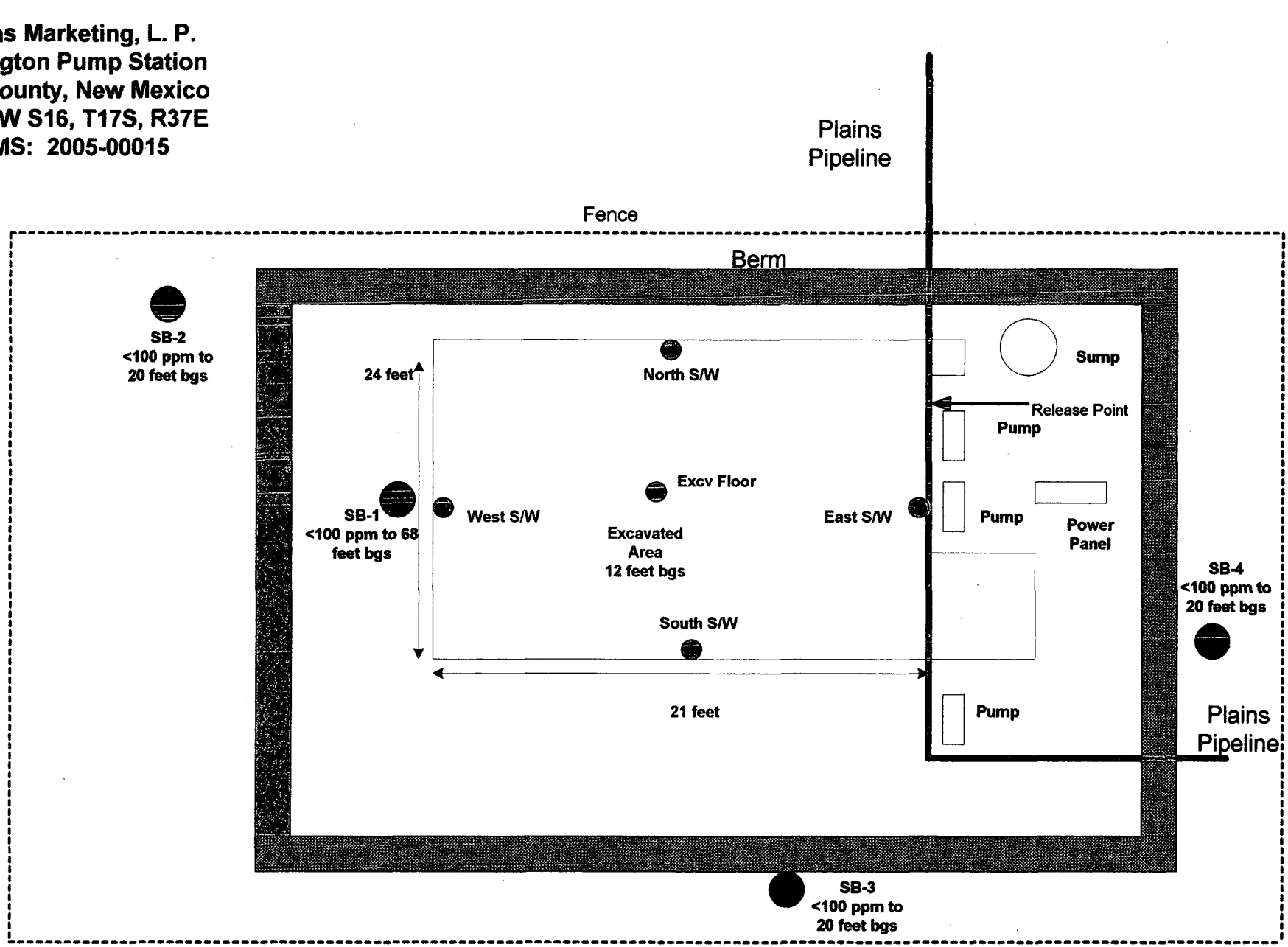
Name: LOVINGTON SE
Date: 11/4/2005
Scale: 1 inch equals 2000 feet

Location: 032° 50' 30.99" N 103° 15' 48.6" W
Caption: Plains Marketing, L. P.
Lovington Pump Station

FIGURE 2

SITE MAP

Plains Marketing, L. P.
Lovington Pump Station
Lea County, New Mexico
NW/NW S16, T17S, R37E
EMS: 2005-00015



Excavated Area

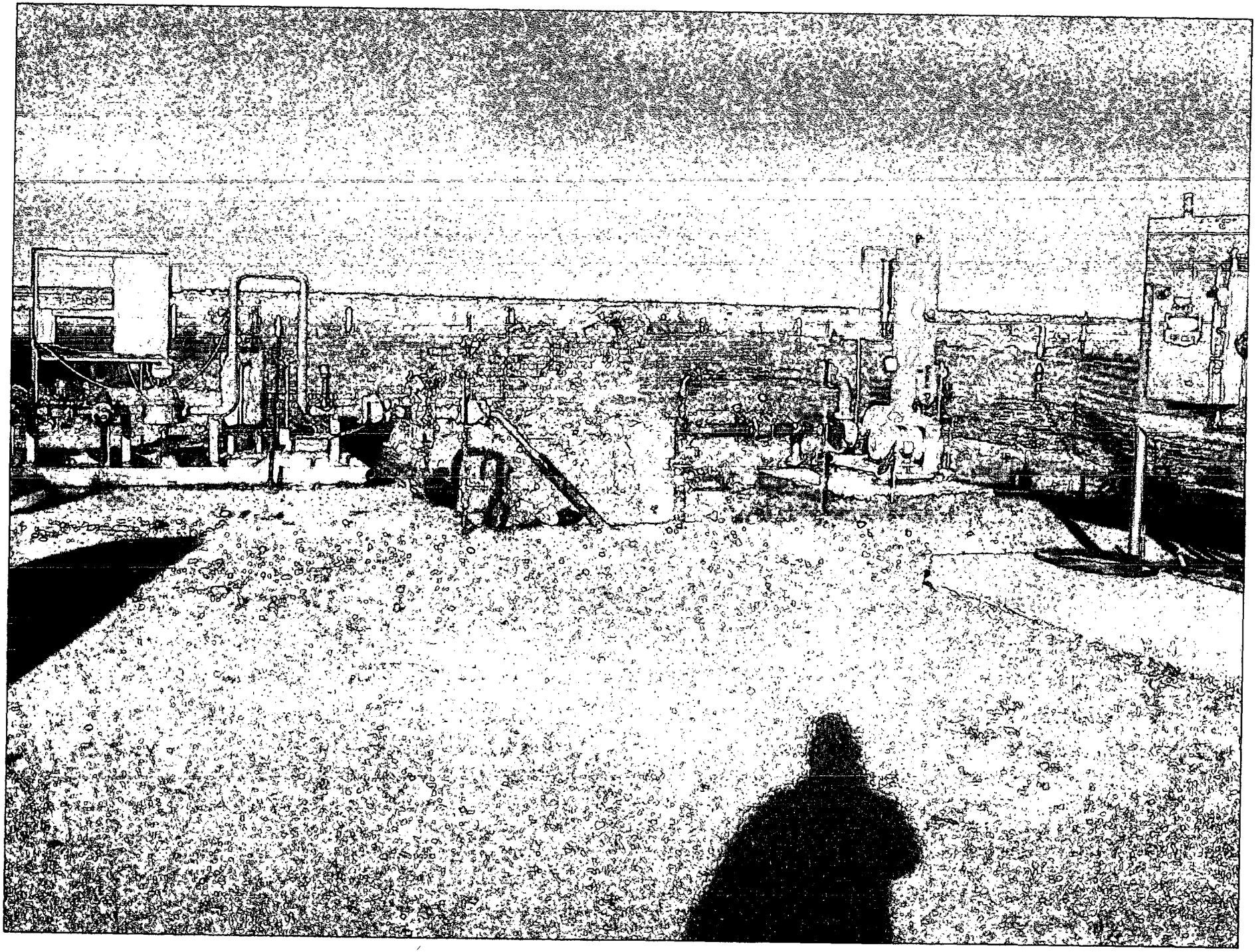
Sampling Locations

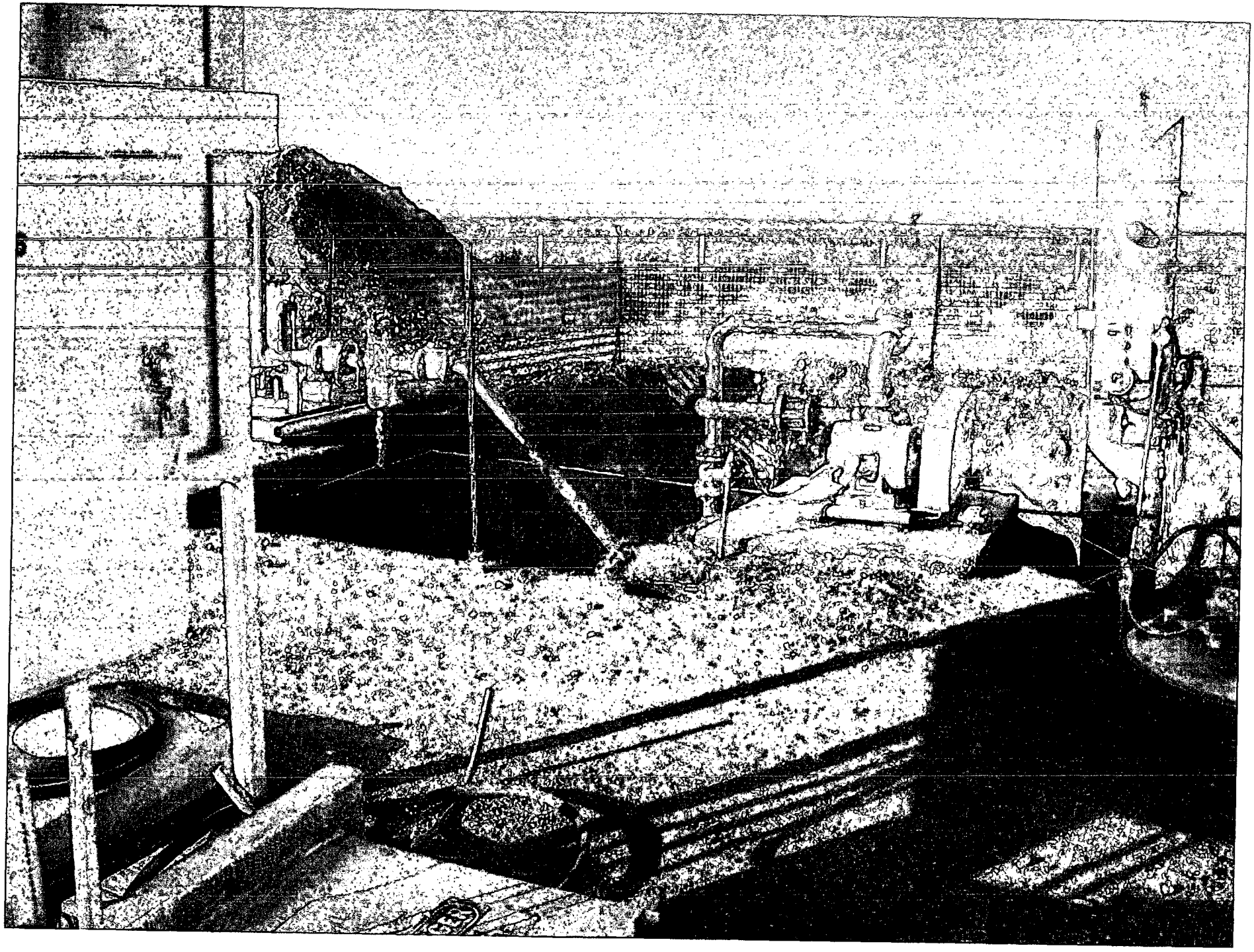
Soil Borings

TITLE	DRAWN BY
Figure 2, Site Map Lovington Pump Station	Basin Environmental Svc. kad

FIGURE 3

DIGITAL PHOTO OF SITE





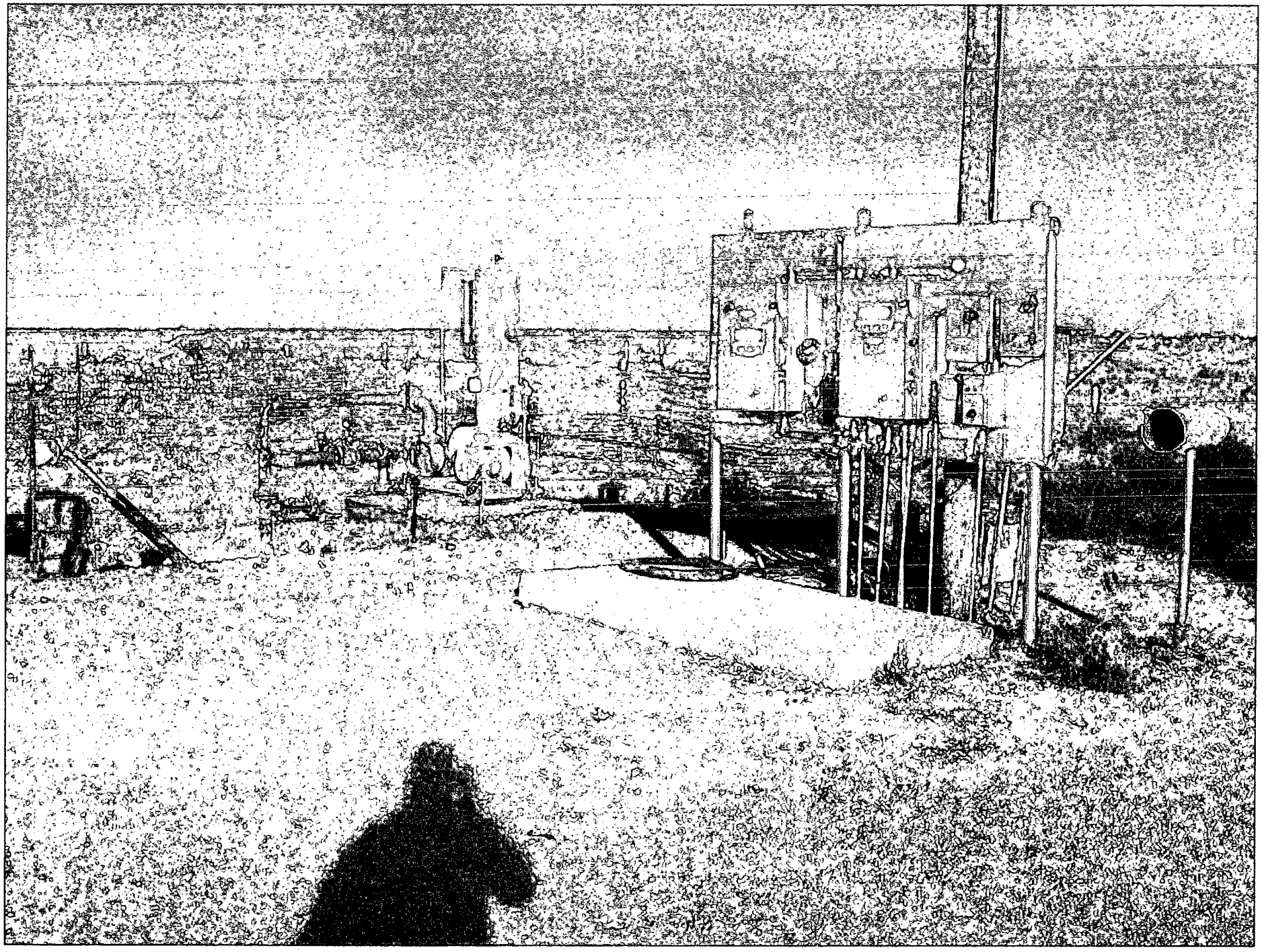


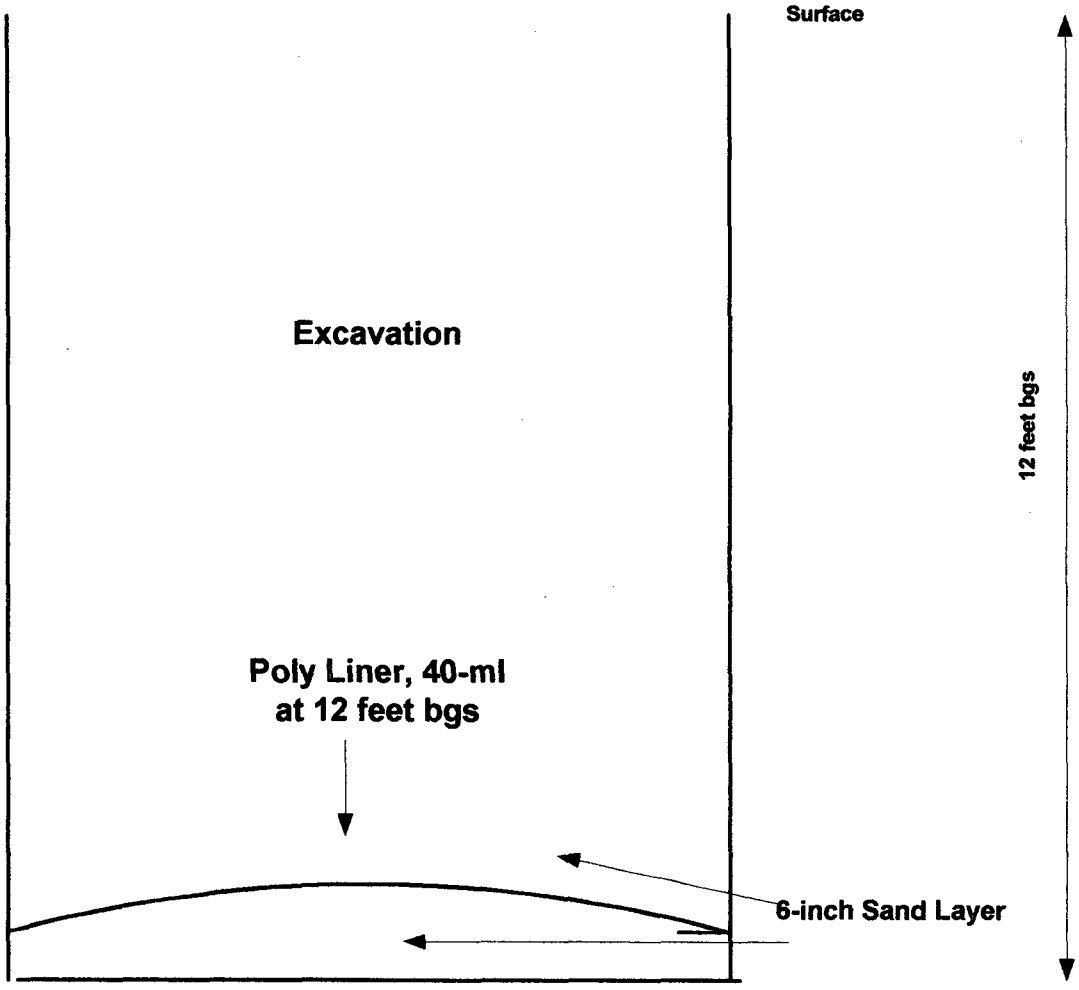
FIGURE 4

INSTALLATION OF 40-ML POLY LINER

Lovington Pump Station
40-ml Poly-Liner Installation

Plains Marketing, L. P.
Lovington Pump Station
NW/NW S16, T17S, R37E
Lea County, New Mexico
EMS No. 2005-00015

Cross Section of Excavation



TITLE	DATE
Lovington Pump Station	31 Oct 05
DRAWN BY: Basin Environmental Services KAD	LABEL: Installation of 40 ml Poly Liner

TABLES

TABLE 1

SOIL CHEMISTRY TABLE

TABLE 1

SOIL CHEMISTRY

PLAINS MARKETING, L.P.
LOVINGTON PUMP STATION
LEA COUNTY, NEW MEXICO
PLAINS EMS: 2005-00015

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH	300.0
			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)	CHLORIDE (mg/kg)
SB-1 10'	10' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-1 20'	20' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-1 30'	30' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	14.9
SB-2 10'	10' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-2 20'	20' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-3 10'	10' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-3 20'	20' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-4 10'	10' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-4 20'	20' bgs	05/05/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
R/P EXCV BTM	5' bgs	05/05/05	0.101	0.399	0.336	1.12	0.273	324	3460	3780	
R/P EXCV N/SW	3' bgs	05/05/05	0.754	0.330	0.322	1.14	0.261	922	5150	6070	
R/P EXCV S/SW	3' bgs	05/05/05	0.115	0.447	0.438	1.48	0.321	890	6600	7490	
R/P EXCV E/SW	3' bgs	05/05/05	0.287	0.876	0.661	1.90	0.419	7040	22900	29900	
R/P EXCV W/SW	3' bgs	05/05/05	<0.025	<0.025	<0.025	0.046	<0.025	254	5640	5890	
North S/W	6' bgs	10/21/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
South S/W	6' bgs	10/21/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
East S/W	6' bgs	10/21/05	<0.025	<0.025	0.225	0.111	0.0269	<10.0	2530	2530	
West S/W	6' bgs	10/21/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	546	546	
Excv Flr	12' bgs	10/21/05	<0.025	0.092	7.74	0.278	0.109	585	4360	4950	
NMOCD CRITERIA			**10**	**50**						**1000**	

APPENDICES

APPENDIX A

NEW MEXICO OFFICE OF THE STATE ENGINNER WATER WELL DATA BASE

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 17S Range: 37E Sections: 16

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 01/18/2005

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	17S	37E	16				2	40	40	40

Record Count: 2

APPENDIX B

ENVIRONMENTAL LABORATORY OF TEXAS ANALYTICAL RESULTS

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: Lovington Pump Station

Project Number: EMS: 2005-00015

Location: Lea County, NM

Lab Order Number: 5J23005

Report Date: 10/27/05

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	10/27/05 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North S/W	5J23005-01	Soil	10/21/05 09:00	10/21/05 16:40
South S/W	5J23005-02	Soil	10/21/05 09:15	10/21/05 16:40
East S/W	5J23005-03	Soil	10/21/05 09:30	10/21/05 16:40
West S/W	5J23005-04	Soil	10/21/05 09:45	10/21/05 16:40
Excv Flr	5J23005-05	Soil	10/21/05 10:00	10/21/05 16:40

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

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	10/27/05 16:01

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North S/W (5J23005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52502	10/25/05	10/25/05	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		*86.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52405	10/24/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.0 %*	*70-130*		"	"	"	"	
South S/W (5J23005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52502	10/25/05	10/25/05	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		*96.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52405	10/24/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.2 %*	*70-130*		"	"	"	"	
East S/W (5J23005-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52502	10/25/05	10/25/05	EPA 8021B	
Toluene	**J [0.0103]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.225**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.111**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0269**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**ND**	50.0	mg/kg dry	5	EJ52405	10/24/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2530**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2530**	50.0	"	"	"	"	"	"	

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East S/W (5J23005-03) Soil									
Surrogate: 1-Chlorooctane		*20.4 %*	*70-130*		*EJ52405*	*10/24/05*	*10/26/05*	*EPA 8015M*	*S-06*
Surrogate: 1-Chlorooctadecane		*17.7 %*	*70-130*		"	"	"	"	*S-06*
West S/W (5J23005-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52509	10/25/05	10/25/05	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		*97.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52405	10/24/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	**546**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**546**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*141 %*	*70-130*		"	"	"	"	*S-04*
Excv Flr (5J23005-05) Soil									
Benzene	**J [0.0186]**	0.0250	mg/kg dry	25	EJ52509	10/25/05	10/26/05	EPA 8021B	J
Toluene	**0.0929**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**7.74**	0.100	"	100	"	"	"	"	
Xylene (p/m)	**0.278**	0.0250	"	25	"	"	"	"	
Xylene (o)	**0.109**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*130 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**585**	50.0	mg/kg dry	5	EJ52405	10/24/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	**4360**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4950**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*19.6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*25.2 %*	*70-130*		"	"	"	"	*S-06*

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	10/27/05 16:01

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North S/W (5J23005-01) Soil									
% Moisture	**7.9**	0.1	%	1	EJ52503	10/24/05	10/25/05	% calculation	
South S/W (5J23005-02) Soil									
% Moisture	**11.3**	0.1	%	1	EJ52503	10/24/05	10/25/05	% calculation	
East S/W (5J23005-03) Soil									
% Moisture	**7.2**	0.1	%	1	EJ52503	10/24/05	10/25/05	% calculation	
West S/W (5J23005-04) Soil									
% Moisture	**3.9**	0.1	%	1	EJ52503	10/24/05	10/25/05	% calculation	
Excv Flr (5J23005-05) Soil									
% Moisture	**9.3**	0.1	%	1	EJ52503	10/24/05	10/25/05	% 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 EJ52405 - Solvent Extraction (GC)										
Blank (EJ52405-BLK1)				Prepared: 10/24/05 Analyzed: 10/25/05						
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	*45.6*		*mg/kg*	*50.0*		*91.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.0*		"	*50.0*		*128*	*70-130*			
LCS (EJ52405-BS1)				Prepared: 10/24/05 Analyzed: 10/25/05						
Gasoline Range Organics C6-C12	450	10.0	mg/kg wet	500		90.0	75-125			
Diesel Range Organics >C12-C35	442	10.0	"	500		88.4	75-125			
Total Hydrocarbon C6-C35	892	10.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	*51.9*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*58.1*		"	*50.0*		*116*	*70-130*			
Calibration Check (EJ52405-CCV1)				Prepared: 10/24/05 Analyzed: 10/26/05						
Gasoline Range Organics C6-C12	453		mg/kg	500		90.6	80-120			
Diesel Range Organics >C12-C35	568		"	500		114	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	*47.4*		"	*50.0*		*94.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*60.3*		"	*50.0*		*121*	*70-130*			
Matrix Spike (EJ52405-MS1)	**Source: 5J23004-21**			Prepared: 10/24/05 Analyzed: 10/25/05						
Gasoline Range Organics C6-C12	462	10.0	mg/kg dry	530	ND	87.2	75-125			
Diesel Range Organics >C12-C35	428	10.0	"	530	ND	80.8	75-125			
Total Hydrocarbon C6-C35	890	10.0	"	1060	ND	84.0	75-125			
Surrogate: 1-Chlorooctane	*52.7*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.2*		"	*50.0*		*110*	*70-130*			
Matrix Spike Dup (EJ52405-MSD1)	**Source: 5J23004-21**			Prepared: 10/24/05 Analyzed: 10/25/05						
Gasoline Range Organics C6-C12	478	10.0	mg/kg dry	530	ND	90.2	75-125	3.40	20	
Diesel Range Organics >C12-C35	451	10.0	"	530	ND	85.1	75-125	5.23	20	
Total Hydrocarbon C6-C35	929	10.0	"	1060	ND	87.6	75-125	4.29	20	
Surrogate: 1-Chlorooctane	*54.2*		*mg/kg*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.6*		"	*50.0*		*113*	*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 EJ52502 - EPA 5030C (GC)										
Blank (EJ52502-BLK1)				Prepared & Analyzed: 10/25/05						
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	*39.9*		*ug/kg*	*40.0*		*99.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.1*		*"*	*40.0*		*97.8*	*80-120*			
LCS (EJ52502-BS1)				Prepared & Analyzed: 10/25/05						
Benzene	0.0540	0.00100	mg/kg wet	0.0500		108	80-120			
Toluene	0.0551	0.00100	"	0.0500		110	80-120			
Ethylbenzene	0.0594	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0570	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.1*		*ug/kg*	*40.0*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.8*		*"*	*40.0*		*114*	*80-120*			
Calibration Check (EJ52502-CCV1)				Prepared & Analyzed: 10/25/05						
Benzene	55.4		ug/kg	50.0		111	80-120			
Toluene	54.4		"	50.0		109	80-120			
Ethylbenzene	58.4		"	50.0		117	80-120			
Xylene (p/m)	114		"	100		114	80-120			
Xylene (o)	58.4		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.1*		*"*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.8*		*"*	*40.0*		*107*	*80-120*			
Matrix Spike (EJ52502-MS1)	**Source: 5J23004-20**			Prepared & Analyzed: 10/25/05						
Benzene	0.0563	0.00100	mg/kg dry	0.0530	ND	106	80-120			
Toluene	0.0569	0.00100	"	0.0530	ND	107	80-120			
Ethylbenzene	0.0624	0.00100	"	0.0530	ND	118	80-120			
Xylene (p/m)	0.118	0.00100	"	0.106	ND	111	80-120			
Xylene (o)	0.0612	0.00100	"	0.0530	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.7*		*ug/kg*	*40.0*		*96.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.3*		*"*	*40.0*		*103*	*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 EJ52502 - EPA 5030C (GC)										
Matrix Spike Dup (EJ52502-MSD1)	**Source: 5J23004-20**			Prepared & Analyzed: 10/25/05						
Benzene	0.0623	0.00100	mg/kg dry	0.0530	ND	118	80-120	10.7	20	
Toluene	0.0635	0.00100	"	0.0530	ND	120	80-120	11.5	20	
Ethylbenzene	0.0635	0.00100	"	0.0530	ND	120	80-120	1.68	20	
Xylene (p/m)	0.127	0.00100	"	0.106	ND	120	80-120	7.79	20	
Xylene (o)	0.0618	0.00100	"	0.0530	ND	117	80-120	1.72	20	
Surrogate: a,a,a-Trifluorotoluene	*42.2*		*ug/kg*	*40.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.2*		*"*	*40.0*		*118*	*80-120*			
Batch EJ52509 - EPA 5030C (GC)										
Blank (EJ52509-BLK1)				Prepared & Analyzed: 10/25/05						
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	*38.0*		*ug/kg*	*40.0*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.4*		*"*	*40.0*		*101*	*80-120*			
LCS (EJ52509-BS1)				Prepared & Analyzed: 10/25/05						
Benzene	0.0526	0.00100	mg/kg wet	0.0500		105	80-120			
Toluene	0.0537	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0587	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.114	0.00100	"	0.100		114	80-120			
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.6*		*ug/kg*	*40.0*		*96.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.1*		*"*	*40.0*		*113*	*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 EJ52509 - EPA 5030C (GC)										
Calibration Check (EJ52509-CCV1)				Prepared: 10/25/05 Analyzed: 10/26/05						
Benzene	49.8		ug/kg	50.0		99.6	80-120			
Toluene	49.8		"	50.0		99.6	80-120			
Ethylbenzene	54.2		"	50.0		108	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	54.8		"	50.0		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.8*		"	*40.0*		*87.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.0*		"	*40.0*		*90.0*	*80-120*			
Matrix Spike (EJ52509-MS1)		**Source: 5J25005-02**		Prepared: 10/25/05 Analyzed: 10/26/05						
Benzene	1.29	0.0250	mg/kg dry	1.34	ND	96.3	80-120			
Toluene	1.34	0.0250	"	1.34	0.0127	99.1	80-120			
Ethylbenzene	1.55	0.0250	"	1.34	0.0225	114	80-120			
Xylene (p/m)	2.93	0.0250	"	2.68	0.0609	107	80-120			
Xylene (o)	1.45	0.0250	"	1.34	0.0264	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.3*		*ug/kg*	*40.0*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.2*		"	*40.0*		*106*	*80-120*			
Matrix Spike Dup (EJ52509-MSD1)		**Source: 5J25005-02**		Prepared: 10/25/05 Analyzed: 10/26/05						
Benzene	1.24	0.0250	mg/kg dry	1.34	ND	92.5	80-120	4.03	20	
Toluene	1.29	0.0250	"	1.34	0.0127	95.3	80-120	3.91	20	
Ethylbenzene	1.51	0.0250	"	1.34	0.0225	111	80-120	2.67	20	
Xylene (p/m)	2.91	0.0250	"	2.68	0.0609	106	80-120	0.939	20	
Xylene (o)	1.51	0.0250	"	1.34	0.0264	111	80-120	4.61	20	
Surrogate: a,a,a-Trifluorotoluene	*33.6*		*ug/kg*	*40.0*		*84.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.6*		"	*40.0*		*109*	*80-120*			

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	10/27/05 16:01

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 EJ52503 - General Preparation (Prep)										
Blank (EJ52503-BLK1)				Prepared: 10/24/05 Analyzed: 10/25/05						
% Solids	100		%							
Duplicate (EJ52503-DUP1)		**Source: 5J21011-01**		Prepared: 10/24/05 Analyzed: 10/25/05						
% Solids	94.3		%		93.8			0.532	20	
Duplicate (EJ52503-DUP2)		**Source: 5J23004-15**		Prepared: 10/24/05 Analyzed: 10/25/05						
% Solids	94.6		%		94.5			0.106	20	
Duplicate (EJ52503-DUP3)		**Source: 5J23005-04**		Prepared: 10/24/05 Analyzed: 10/25/05						
% Solids	95.4		%		96.1			0.731	20	

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

Notes and Definitions

S-06

S-04

J

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not ReportedDetected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 10/27/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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 ENV SVC
Company Address: P.O. BOX 301
City/State/Zip: LOVINGTON, NM 88260
Telephone No: (505) 441-2124 Fax No: (505) 369-1429
Sampler Signature: Ken Dutton

Project Name: LOVINGTON PUMP STATION
Project #: EMS: 2005-0015
Project Loc: LEA COUNTY, NM
PO #: PAM/C. REYNOLDS

LAB # (lab use only) 5J23005	FIELD CODE	Date Sampled 2005	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TPH: 418.1	8015M	1005	1008	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL:	BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma	RUSH TAT (Pre-Scheduled)	Standard TAT
-01	NORTH S/W	21 OCT	0900	1	X									X		X										X	X					X
-02	SOUTH S/W		0915																													
-03	EAST S/W		0930																													
-04	WEST S/W		0945																													
-05	EXCV FLR		1000																													

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 3.0
Laboratory Comments: 402
Seals / labels

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	21 OCT 05	1642			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Carrie Kelly	10/21/05	16:40

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

Client: Plains

Date/Time: 10/21/05 16:40

Order #: ~~5S210~~ 5J23005

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.0 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:

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: Lovington Pump Station

Project Number: EMS: 2005-00015

Location: Lea County, NM

Lab Order Number: 5E13017

Report Date: 05/17/05

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
R/P EXCV BTM	5E13017-01	Soil	05/05/05 08:30	05/13/05 09:40
R/P EXCV N/SW	5E13017-02	Soil	05/05/05 08:40	05/13/05 09:40
R/P EXCV S/SW	5E13017-03	Soil	05/05/05 08:50	05/13/05 09:40
R/P EXCV E/SW	5E13017-04	Soil	05/05/05 08:59	05/13/05 09:40
R/P EXCV W/SW	5E13017-05	Soil	05/05/05 09:08	05/13/05 09:40

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

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
R/P EXCV BTM (5E13017-01) Soil									
Benzene	**0.101**	0.0250	mg/kg dry	25	EE51312	05/13/05	05/14/05	EPA 8021B	
Toluene	**0.399**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.336**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.12**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.273**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*143 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*117 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**324**	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	**3460**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3780**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
R/P EXCV N/SW (5E13017-02) Soil									
Benzene	**0.0754**	0.0250	mg/kg dry	25	EE51312	05/13/05	05/14/05	EPA 8021B	
Toluene	**0.330**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.322**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.14**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.261**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*127 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**922**	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	**5150**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6070**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
R/P EXCV S/SW (5E13017-03) Soil									
Benzene	**0.115**	0.0250	mg/kg dry	25	EE51312	05/13/05	05/14/05	EPA 8021B	
Toluene	**0.447**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.438**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.48**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.321**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*130 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**890**	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	**6600**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**7490**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
R/P EXCV S/SW (5E13017-03) Soil									
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*EE51305*	*05/13/05*	*05/14/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	
R/P EXCV E/SW (5E13017-04) Soil									
Benzene	**0.287**	0.0250	mg/kg dry	25	EE51312	05/13/05	05/14/05	EPA 8021B	
Toluene	**0.876**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.661**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.90**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.419**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*467 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**7040**	50.0	mg/kg dry	5	EE51305	05/13/05	05/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	**22900**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**29900**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*34.2 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*19.2 %*	*70-130*		"	"	"	"	*S-06*
R/P EXCV W/SW (5E13017-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0203]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0462**	0.0250	"	"	"	"	"	"	
Xylene (o)	**J [0.0175]**	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*90.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**254**	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	**5640**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5890**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
R/P EXCV BTM (5E13017-01) Soil									
% Moisture	**9.5**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
R/P EXCV N/SW (5E13017-02) Soil									
% Moisture	**7.9**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
R/P EXCV S/SW (5E13017-03) Soil									
% Moisture	**7.8**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
R/P EXCV E/SW (5E13017-04) Soil									
% Moisture	**13.7**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
R/P EXCV W/SW (5E13017-05) Soil									
% Moisture	**6.9**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51305 - Solvent Extraction (GC)										
Blank (EE51305-BLK1)				Prepared: 05/13/05 Analyzed: 05/14/05						
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	*39.4*		*mg/kg*	*50.0*		*78.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		"	*50.0*		*75.2*	*70-130*			
LCS (EE51305-BS1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	475	10.0	mg/kg wet	500		95.0	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	980	10.0	"	1000		98.0	75-125			
Surrogate: 1-Chlorooctane	*38.6*		*mg/kg*	*50.0*		*77.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		"	*50.0*		*72.4*	*70-130*			
Calibration Check (EE51305-CCV1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	499		mg/kg	500		99.8	80-120			
Diesel Range Organics >C12-C35	530		"	500		106	80-120			
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120			
Surrogate: 1-Chlorooctane	*48.4*		"	*50.0*		*96.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.2*		"	*50.0*		*82.4*	*70-130*			
Matrix Spike (EE51305-MS1)	**Source: 5E13021-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	477	10.0	mg/kg dry	517	ND	92.3	75-125			
Diesel Range Organics >C12-C35	502	10.0	"	517	ND	97.1	75-125			
Total Hydrocarbon C6-C35	979	10.0	"	1030	ND	95.0	75-125			
Surrogate: 1-Chlorooctane	*52.8*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.0*		"	*50.0*		*94.0*	*70-130*			
Matrix Spike Dup (EE51305-MSD1)	**Source: 5E13021-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	488	10.0	mg/kg dry	517	ND	94.4	75-125	2.28	20	
Diesel Range Organics >C12-C35	511	10.0	"	517	ND	98.8	75-125	1.78	20	
Total Hydrocarbon C6-C35	999	10.0	"	1030	ND	97.0	75-125	2.02	20	
Surrogate: 1-Chlorooctane	*53.3*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.5*		"	*50.0*		*97.0*	*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 EE51312 - EPA 5030C (GC)										
Blank (EE51312-BLK1)				Prepared & Analyzed: 05/13/05						
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	*102*		*ug/kg*	*100*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*85.2*		*"*	*100*		*85.2*	*80-120*			
LCS (EE51312-BS1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Benzene	90.3		ug/kg	100		90.3	80-120			
Toluene	82.9		"	100		82.9	80-120			
Ethylbenzene	82.2		"	100		82.2	80-120			
Xylene (p/m)	185		"	200		92.5	80-120			
Xylene (o)	91.0		"	100		91.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*115*		*"*	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.3*		*"*	*100*		*99.3*	*80-120*			
Calibration Check (EE51312-CCV1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Benzene	95.4		ug/kg	100		95.4	80-120			
Toluene	93.0		"	100		93.0	80-120			
Ethylbenzene	91.5		"	100		91.5	80-120			
Xylene (p/m)	208		"	200		104	80-120			
Xylene (o)	97.1		"	100		97.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*119*		*"*	*100*		*119*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		*"*	*100*		*104*	*80-120*			
Matrix Spike (EE51312-MS1)	**Source: 5E12014-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Benzene	88.8		ug/kg	100	ND	88.8	80-120			
Toluene	85.7		"	100	ND	85.7	80-120			
Ethylbenzene	84.8		"	100	ND	84.8	80-120			
Xylene (p/m)	192		"	200	ND	96.0	80-120			
Xylene (o)	84.6		"	100	ND	84.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*101*		*"*	*100*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*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 EE51312 - EPA 5030C (GC)										
Matrix Spike Dup (EE51312-MSD1)	**Source: 5E12014-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Benzene	92.9		ug/kg	100	ND	92.9	80-120	4.51	20	
Toluene	90.3		"	100	ND	90.3	80-120	5.23	20	
Ethylbenzene	92.0		"	100	ND	92.0	80-120	8.14	20	
Xylene (p/m)	211		"	200	ND	106	80-120	9.90	20	
Xylene (o)	94.4		"	100	ND	94.4	80-120	10.9	20	
Surrogate: a,a,a-Trifluorotoluene	*115*		"	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		"	*100*		*113*	*80-120*			
Batch EE51401 - EPA 5030C (GC)										
Blank (EE51401-BLK1)				Prepared & Analyzed: 05/14/05						
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	*90.0*		*ug/kg*	*100*		*90.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*92.4*		"	*100*		*92.4*	*80-120*			
LCS (EE51401-BS1)				Prepared & Analyzed: 05/14/05						
Benzene	85.3		ug/kg	100		85.3	80-120			
Toluene	82.9		"	100		82.9	80-120			
Ethylbenzene	86.9		"	100		86.9	80-120			
Xylene (p/m)	200		"	200		100	80-120			
Xylene (o)	91.1		"	100		91.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		"	*100*		*114*	*80-120*			

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 EE51401 - EPA 5030C (GC)										
Calibration Check (EE51401-CCV1)				Prepared: 05/14/05 Analyzed: 05/15/05						
Benzene	98.5		ug/kg	100		98.5	80-120			
Toluene	93.6		"	100		93.6	80-120			
Ethylbenzene	88.8		"	100		88.8	80-120			
Xylene (p/m)	200		"	200		100	80-120			
Xylene (o)	96.2		"	100		96.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*115*		*"*	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*80-120*			
Matrix Spike (EE51401-MS1)	**Source: 5E13021-01**			Prepared & Analyzed: 05/14/05						
Benzene	87.4		ug/kg	100	ND	87.4	80-120			
Toluene	86.5		"	100	ND	86.5	80-120			
Ethylbenzene	86.8		"	100	ND	86.8	80-120			
Xylene (p/m)	198		"	200	ND	99.0	80-120			
Xylene (o)	92.0		"	100	ND	92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		*"*	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		*"*	*100*		*114*	*80-120*			
Matrix Spike Dup (EE51401-MSD1)	**Source: 5E13021-01**			Prepared & Analyzed: 05/14/05						
Benzene	90.9		ug/kg	100	ND	90.9	80-120	3.93	20	
Toluene	90.7		"	100	ND	90.7	80-120	4.74	20	
Ethylbenzene	93.4		"	100	ND	93.4	80-120	7.33	20	
Xylene (p/m)	215		"	200	ND	108	80-120	8.70	20	
Xylene (o)	98.1		"	100	ND	98.1	80-120	6.42	20	
Surrogate: a,a,a-Trifluorotoluene	*108*		*"*	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51301 - General Preparation (Prep)										
Blank (EE51301-BLK1)				Prepared & Analyzed: 05/13/05						
% Moisture	ND	0.1	%							
Duplicate (EE51301-DUP1)	**Source: 5E12011-01**			Prepared & Analyzed: 05/13/05						
% Solids	98.2		%		97.4			0.818	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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 5/17/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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.
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: 5/17/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON
Company Name: BASIN ENV. SVCS.
Company Address: P.O. BOX 301
City/State/Zip: LOVINGTON, NM 88260
Telephone No: (505) 441-2124 Fax No: (505) 369-1429
Sampler Signature: Ken Dutton

Project Name: LOVINGTON PUMP STATION
Project #: EMS: 20005-00015
Project Loc: LEA COUNTY, NM
PO #: PAR/C. REYNOLDS

SEBOIN

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	Analyze For: TOTAL: 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 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-01	R/P EXCV BTM	05 MAY	0830	1	X									X		X								X				X
-02	R/P EXCV N/SW		0840																									
-03	R/P EXCV S/SW		0850																									
-04	R/P EXCV E/SW		0859																									
-05	R/P EXCV W/SW		0908																									

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 0.0
Laboratory Comments: seals/ labels 4 of 2

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	13 MAY 05	0920			
Relinquished by:	Date	Time	Received by ELOT: Carrie Kelly	Date 5/13/05	Time 9:40

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

Client: Plains Pipeline

Date/Time: 5/13/05 9:50

Order #: 5E13017

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.0 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:

_____

_____

_____

_____

_____

_____

_____

_____

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: Lovington Pump Station

Project Number: EMS: 2005-00015

Location: Lea County, NM

Lab Order Number: 5E13021

Report Date: 05/17/05

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 10'	5E13021-01	Soil	05/05/05 10:07	05/13/05 09:40
SB-1 20'	5E13021-02	Soil	05/05/05 10:17	05/13/05 09:40
SB-1 30'	5E13021-03	Soil	05/05/05 10:30	05/13/05 09:40
SB-2 10'	5E13021-07	Soil	05/05/05 13:10	05/13/05 09:40
SB-2 20'	5E13021-08	Soil	05/05/05 13:20	05/13/05 09:40
SB-3 10'	5E13021-09	Soil	05/05/05 14:01	05/13/05 09:40
SB-3 20'	5E13021-10	Soil	05/05/05 14:10	05/13/05 09:40
SB-4 10'	5E13021-11	Soil	05/05/05 14:40	05/13/05 09:40
SB-4 20'	5E13021-12	Soil	05/05/05 14:47	05/13/05 09:40

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

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:24

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 10' (5E13021-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*95.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
SB-1 20' (5E13021-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*93.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
SB-1 30' (5E13021-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*92.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:24

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 30' (5E13021-03) Soil									
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		*EE51305*	*05/13/05*	*05/14/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	
SB-2 10' (5E13021-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*95.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.4 %*	*70-130*		"	"	"	"	
SB-2 20' (5E13021-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*92.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.0 %*	*70-130*		"	"	"	"	

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 10' (5E13021-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*95.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.2 %*	*70-130*		"	"	"	"	
SB-3 20' (5E13021-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*96.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*77.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.4 %*	*70-130*		"	"	"	"	
SB-4 10' (5E13021-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/16/05	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		*95.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Plains All American EH & S	Project: Lovington Pump Station	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2005-00015	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/17/05 09:24

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 10' (5E13021-11) Soil									
Surrogate: 1-Chlorooctane		*79.8 %*	*70-130*		*EE51305*	*05/13/05*	*05/14/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*74.2 %*	*70-130*		"	"	"	"	
SB-4 20' (5E13021-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51401	05/14/05	05/14/05	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		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51305	05/13/05	05/14/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*75.2 %*	*70-130*		"	"	"	"	

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 10' (5E13021-01) Soil									
% Moisture	**7.5**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-1 20' (5E13021-02) Soil									
% Moisture	**3.3**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-1 30' (5E13021-03) Soil									
Chloride	**14.9**	5.00	mg/kg	10	EE51404	05/13/05	05/13/05	EPA 300.0	
% Moisture	**4.2**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-2 10' (5E13021-07) Soil									
% Moisture	**10.3**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-2 20' (5E13021-08) Soil									
% Moisture	**3.5**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-3 10' (5E13021-09) Soil									
% Moisture	**11.4**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-3 20' (5E13021-10) Soil									
% Moisture	**3.5**	0.1	%	1	EE51301	05/13/05	05/13/05	% calculation	
SB-4 10' (5E13021-11) Soil									
% Moisture	**10.6**	0.1	%	1	EE51301	05/13/05	05/16/05	% calculation	
SB-4 20' (5E13021-12) Soil									
% Moisture	**3.0**	0.1	%	1	EE51301	05/13/05	05/16/05	% calculation	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51305 - Solvent Extraction (GC)										
Blank (EE51305-BLK1)				Prepared: 05/13/05 Analyzed: 05/14/05						
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	*39.4*		*mg/kg*	*50.0*		*78.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		"	*50.0*		*75.2*	*70-130*			
LCS (EE51305-BS1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	475	10.0	mg/kg wet	500		95.0	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	980	10.0	"	1000		98.0	75-125			
Surrogate: 1-Chlorooctane	*38.6*		*mg/kg*	*50.0*		*77.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		"	*50.0*		*72.4*	*70-130*			
Calibration Check (EE51305-CCV1)				Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	499		mg/kg	500		99.8	80-120			
Diesel Range Organics >C12-C35	530		"	500		106	80-120			
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120			
Surrogate: 1-Chlorooctane	*48.4*		"	*50.0*		*96.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.2*		"	*50.0*		*82.4*	*70-130*			
Matrix Spike (EE51305-MS1)	**Source: 5E13021-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	477	10.0	mg/kg dry	517	ND	92.3	75-125			
Diesel Range Organics >C12-C35	502	10.0	"	517	ND	97.1	75-125			
Total Hydrocarbon C6-C35	979	10.0	"	1030	ND	95.0	75-125			
Surrogate: 1-Chlorooctane	*52.8*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.0*		"	*50.0*		*94.0*	*70-130*			
Matrix Spike Dup (EE51305-MSD1)	**Source: 5E13021-02**			Prepared: 05/13/05 Analyzed: 05/14/05						
Gasoline Range Organics C6-C12	488	10.0	mg/kg dry	517	ND	94.4	75-125	2.28	20	
Diesel Range Organics >C12-C35	511	10.0	"	517	ND	98.8	75-125	1.78	20	
Total Hydrocarbon C6-C35	999	10.0	"	1030	ND	97.0	75-125	2.02	20	
Surrogate: 1-Chlorooctane	*53.3*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.5*		"	*50.0*		*97.0*	*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 EE51401 - EPA 5030C (GC)										
Blank (EE51401-BLK1)			Prepared & Analyzed: 05/14/05							
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	*90.0*		*ug/kg*	*100*		*90.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*92.4*		"	*100*		*92.4*	*80-120*			
LCS (EE51401-BS1)			Prepared & Analyzed: 05/14/05							
Benzene	85.3		ug/kg	100		85.3	80-120			
Toluene	82.9		"	100		82.9	80-120			
Ethylbenzene	86.9		"	100		86.9	80-120			
Xylene (p/m)	200		"	200		100	80-120			
Xylene (o)	91.1		"	100		91.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		"	*100*		*114*	*80-120*			
Calibration Check (EE51401-CCV1)			Prepared: 05/14/05 Analyzed: 05/15/05							
Benzene	98.5		ug/kg	100		98.5	80-120			
Toluene	93.6		"	100		93.6	80-120			
Ethylbenzene	88.8		"	100		88.8	80-120			
Xylene (p/m)	200		"	200		100	80-120			
Xylene (o)	96.2		"	100		96.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*115*		"	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		"	*100*		*103*	*80-120*			
Matrix Spike (EE51401-MS1)	**Source: 5E13021-01**		Prepared & Analyzed: 05/14/05							
Benzene	87.4		ug/kg	100	ND	87.4	80-120			
Toluene	86.5		"	100	ND	86.5	80-120			
Ethylbenzene	86.8		"	100	ND	86.8	80-120			
Xylene (p/m)	198		"	200	ND	99.0	80-120			
Xylene (o)	92.0		"	100	ND	92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		"	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		"	*100*		*114*	*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 EE51401 - EPA 5030C (GC)										
Matrix Spike Dup (EE51401-MSD1)	**Source: 5E13021-01**		Prepared & Analyzed: 05/14/05							
Benzene	90.9		ug/kg	100	ND	90.9	80-120	3.93	20	
Toluene	90.7		"	100	ND	90.7	80-120	4.74	20	
Ethylbenzene	93.4		"	100	ND	93.4	80-120	7.33	20	
Xylene (p/m)	215		"	200	ND	108	80-120	8.70	20	
Xylene (o)	98.1		"	100	ND	98.1	80-120	6.42	20	
Surrogate: a,a,a-Trifluorotoluene	*108*		"	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		"	*100*		*116*	*80-120*			

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

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 EE51301 - General Preparation (Prep)										
Blank (EE51301-BLK1)				Prepared & Analyzed: 05/13/05						
% Moisture	ND	0.1	%							
Duplicate (EE51301-DUP1)	**Source: 5E12011-01**			Prepared & Analyzed: 05/13/05						
% Solids	98.2		%		97.4			0.818	20	
Batch EE51404 - Water Extraction										
Blank (EE51404-BLK1)				Prepared & Analyzed: 05/13/05						
Chloride	ND	0.500	mg/kg							
LCS (EE51404-BS1)				Prepared & Analyzed: 05/13/05						
Chloride	10.2		mg/L	10.0		102	80-120			
Calibration Check (EE51404-CCV1)				Prepared & Analyzed: 05/13/05						
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EE51404-DUP1)	**Source: 5E13025-04**			Prepared & Analyzed: 05/13/05						
Chloride	1670	50.0	mg/kg		1680			0.597	20	

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

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: Raland K. Tuttle Date: 5/17/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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 ENV SVCS
Company Address: P.O. BOX 301
City/State/Zip: LOVINGTON, NM 88260
Telephone No: (505) 441-2124 Fax No: (505) 396-1429
Sampler Signature: Ken Dutton

Project Name: LOVINGTON PUMP STATION
Project #: EMS: 2005-00015
Project Loc: LEA COUNTY, NM
PO #: PAA/C. REYNOLDS

SE1302

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	TOTAL: 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	RCI	N.O.R.M.	Total Gamma	CHLORIDES 300.1			RUSH TAT (Pre-Schedule)	Standard TAT
-01	SB-1 1Ø'	05 MAY	1Ø07	1	X									X		X								X				X			X
-02	SB-1 2Ø'		1Ø17	1	X									X		X								X				X			X
-03	SB-1 3Ø'		1Ø3Ø	1	X									X		X								X			X	X			X
-04	SB-1 4Ø'		1Ø39	1	X									X														X			X
-05	SB-1 5Ø'		1Ø56	1	X									X														X			X
-06	SB-1 68'		112Ø	1	X									X														X			X
-07	SB-2 1Ø'		131Ø	1	X									X		X								X				X			X
-08	SB-2 2Ø'		132Ø	1	X									X		X								X				X			X
-09	SB-3 1Ø'		14Ø1	1	X									X		X								X				X			X
-10	SB-3 2Ø'		141Ø	1	X									X		X								X				X			X

Special Instructions: HOLD SB-1 5Ø', SB-14Ø' + SB-1 68' FOR POSSIBLE ANALYSIS - D

Sample Containers Intact? Y N
Temperature Upon Receipt: 0.0
Laboratory Comments: Seals/Labels 4oz

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	13 MAY 05	Ø92Ø			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Callie Kelly	5/13/05	9:40

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 ENV SVC.
Company Address: P. O. BOX 301
City/State/Zip: LOVINGTON, NM 88260
Telephone No: (505) 441-2124 Fax No: (505) 396-1429
Sampler Signature: Ken Dutton

Project Name: LOVINGTON PUMP STATION
Project #: EMS: 2005-00015
Project Loc: LEA COUNTY, NM
PO #: PAA/C. REYNOLDS

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 / 8015M	Analyze For: TOTAL: TPH: 418.1 / 8015M	Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, CO_3, HCO_3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma		RUSH TAT (Pre-Schedule)	Standard TAT
71	SB-4 10'	05 MAY	1440	1	X									X		X	X							X						X
72	SB-4 20'	05 MAY	1447	1	X									X		X	X							X						X

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 0, C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	13/05/05				
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Celia Vela	5/13/05	9:40

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

Client: Plains Pipeline

Date/Time: 5/13/05 9:50

Order #: 5E13021

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.0 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:

_____

_____

_____

_____

_____

_____

_____

_____

APPENDIX C

SOIL BORING LOGS

Depth	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
				Caliche Layer, Gray-Black, Moist
5	2.8 ppm	Slight	Heavy	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, moist
10	3.2 ppm	None	Slight	
15	1.2 ppm	None	None	
20	1.7 ppm	None	None	Caliche Layer, moist
25	1.9 ppm	None	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, moist
30	1.8 ppm	None	None	
35	1.7 ppm	None	None	Caliche Layer, dry
40	2.3 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, imbedded w/ gravel rock, dry
45	0.7 ppm	None	None	Sand Stone Layer, dry
50	0.7 ppm	None	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, dry
55	0.5 ppm	None	None	
60	0.2 ppm	None	None	
65	0.2 ppm	None	None	
▽ 68' TD 70	0.1 ppm	None	None	

Plains Marketing, L. P.
Lovington Pump Station
Lea County, New Mexico
NW/NW S16, T17S, R37E
EMS No. 2005-00015

Soil Boring Completion Data

TD: 68 Feet bgs

Installed 05 May 05
Basin Environmental
Service Technologies

▭ Samples selected for analysis

▽ Groundwater Depth

Soil Boring Plugging Data

Hydrated Bentonite Plug, Surface to 68' bgs

TITLE	DESCRIPTION
Lovington Pump Station	SB-1
DRAWN BY KAD	DATE 05 May 05

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5		0.6 ppm	None	None	Caliche Layer, dry
10		0.8 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, dry
15		0.1 ppm	None	None	
20		0.1ppm	None	None	

Plains Marketing, L. P.
Lovington Pump Station
Lea County, New Mexico
NW/NW S16, T17S, R37E
EMS No. 2005-00015

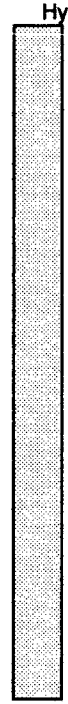
Soil Boring Completion Data

TD: 20 Feet bgs

Installed 05 May 05
Basin Environmental
Service Technologies

Samples selected for analysis

Soil Boring Plugging Data



TITLE	DESCRIPTION
Lovington Pump Station	SB-2
DRAWN BY KAD	DATE 05 May 05

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5		1.0 ppm	None	None	Caliche Layer, moist
10		0.9 ppm	None	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, moist
15		0.1 ppm	None	None	Caliche Layer, dry
20		0.3ppm	None	None	

Plains Marketing, L. P.
Lovington Pump Station
Lea County, New Mexico
NW/NW S16, T17S, R37E
EMS No. 2005-00015

Soil Boring Completion Data

TD: 20 Feet bgs

Installed 05 May 05
Basin Environmental
Service Technologies

Samples selected for analysis

Soil Boring Plugging Data

Hydrated Bentonite Plug, Surface to 20' bgs

TITLE	DESCRIPTION
Lovington Pump Station	SB-3
DRAWN BY KAD	DATE 05 May 05

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5		1.5 ppm	None	None	Caliche Layer, moist
10		1.5 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, imbedded w/ caliche, dry
15		1.1 ppm	None	None	Caliche Layer, dry
20		0.8 ppm	None	None	

Plains Marketing, L. P.
Lovington Pump Station
Lea County, New Mexico
NW/NW S16, T17S, R37E
EMS No. 2005-00015

Soil Boring Completion Data

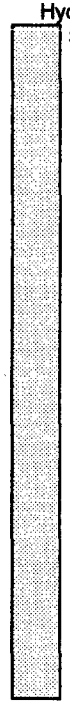
TD: 20 Feet bgs

Installed 05 May 05
Basin Environmental
Service Technologies

Samples selected for analysis

Soil Boring Plugging Data

Hydrated Bentonite Plug, Surface to 20' bgs



TITLE	DESCRIPTION
Lovington Pump Station	SB-4
DRAWN BY KAD	DATE 05 May 05

APPENDIX D

NMOCD C-141

District I
625 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 Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Lovington Station	Facility Type 4"Steel Pipeline

Surface Owner State Of New Mexico	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
D	16	17S	37E					Lea

Latitude 32°50'31.2" Longitude 103°15'45.5"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 6 barrels	Volume Recovered 0 barrels
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 1/14/05 @ 08:55	Date and Hour of Discovery 1/14/05 @ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 1/14/05 @ 15:15	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

JAN 2005
RECEIVED
HOBBS
OCD

Describe Cause of Problem and Remedial Action Taken.* Failure of packing on pump caused release of sour crude oil. Pump was repaired. The line has approximately 70 psi and produces approximately 780 barrels of crude oil per day. The gravity on the crude is 35.7 and the H2S content is less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.* The pump was repaired and the saturated soil was excavated. Aerial extent of surface impact was approximately 15 x 20 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

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date 1/20/05 Phone:505-441-0965

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐