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PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION/CLOSURE PLAN

**PLAINS MARKETING, L.P. (231735)
Seaman Gathering Mainline
Lea County, New Mexico
Plains SRS # 2006-011**

**UNIT I (NE/SE), Section 1, Township 18 South, Range 32 East
Latitude 32°, 46', 24.4" North, Longitude 103°, 42', 52.4" West
NMOCD File Number: 1RP-1456**

Prepared For:



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



Prepared By:

Basin Environmental Service Technologies, LLC

11 July 2007


Ken Dutton

Basin Environmental Service Technologies, LLC

RP# 1456

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INTRODUCTION

Environmental Plus, Inc., (EPI), responded to a crude oil release for Plains Marketing, L.P. (Plains), located at the Seaman Gathering Mainline Pipeline on 04 January 2006. The Seaman Gathering Mainline Pipeline was contained by Plains operations personnel utilizing a pipeline repair clamp. EPI initiated excavation of the impacted soil which was stockpiled adjacent to the excavation on a 6-mil poly-liner. The Seaman Gathering Mainline Pipeline is located on land owned by Caviness Family Trust. Basin Environmental Service Technologies, LLC (Basin), will perform subsequent remediation of the site at the request of Plains.

This site is located in Unit I (NE¼/SE¼) Section 1, Township 18 South, Range 32 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 46', 24.4" North and site longitude is 103°, 42', 52.4" West. The site is characterized by a pipeline right-of-way in an undulating dunal pasture utilized for cattle grazing with numerous crude oil and natural gas producing facilities in the vicinity. Additionally, the Seaman Gathering Pipeline right-of-way is adjacent to an operational tank battery and producing well head. The visible surface stained area includes the release point and flow path area covering an area approximately 75 feet long by 50 feet wide. Approximately 7 barrels of crude oil were released from the crude oil release and 2 barrels were recovered.

An Emergency One-Call was initiated 04 January 2006 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Ms. Pat Caperton, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on 04 January 2006. A C-141 form, dated 09 January 2006 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 no data available for that section; however, Section 7 of the same section, township and range revealed depth to groundwater to be an average of 460 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 0-9, which sets the remediation levels at:

Benzene:	10 ppm
TOTAL BTEX:	50 ppm
TPH:	5000 ppm

SUMMARY OF FIELD ACTIVITIES

On 04 January 2006, EPI mobilized to the Seaman Gathering Mainline responding to a crude oil release for Plains. Plains operations personnel utilized a pipeline clamp to temporarily repair and contain the crude oil release. Upon arrival at the release site, EPI initiated excavation of the release point and flow path area with the impacted soil stockpiled on a 6-mil poly liner adjacent to the excavation for future remedial action. The excavated area is approximately 75 feet long by 50 feet wide and approximately 18 feet below ground surface (bgs) (See Figure 2, Excavation Site Map). Approximately 2500 cubic yards of impacted soil has been stockpiled on-site commensurate remediation activities.

On 24 March 2006, EPI installed a soil boring on the excavation floor at approximately eighteen (18) feet bgs to delineate the vertical extent of crude oil impact. The soil boring was installed to a depth of approximately 43 feet bgs and soil samples were collected at the surface and 5 feet intervals (see Figure 3, Excavation Site Map - Soil Boring and Sampling Locations).

On 11 June 2007, five (5) confirmation soil samples were collected by Basin, from the floor and walls of the excavation at approximately eight (8) feet and 18 feet bgs, respectively.

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The final dimensions of the excavation which including the release point and flow path areas are approximately 75 feet long by 50 feet wide and a depth of approximately 18 feet bgs. Approximately 2500 cubic yards of impacted soil has been stockpiled on-site commensurate with remediation activities conducted by EPI.

On 24 March 2006, EPI installed a soil boring on the excavation floor. The soil boring was installed to a depth of approximately 43 feet bgs and soil samples were collected at the excavation floor surface and 5 feet intervals (see Figure 3, Excavation Site Map - Soil Boring and Sampling Locations). The selected soil samples were analyzed for constituent concentrations of TPH-GRO/DRO. Laboratory results for the six (6) soil samples indicated that detectable TPH-GRO/DRO concentrations were above NMOCD regulatory standards for four (4) soil samples (18, 23, 28, and 33 feet bgs) at 16,800 mg/kg, 20,300 mg/kg, 10,200 mg/kg and 7910 mg/kg, respectively and not detected above laboratory method detection limits for the remaining two (2) soil samples at total depth (38 and 43 feet bgs).

On 11 June 2007, five (5) confirmation soil samples were collected from the floor and walls of the excavation at approximately eight (8) feet and 18 feet bgs, respectively. Soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated the four (4) wall soil samples did not contain

constituent concentrations of BTEX and TPH-GRO/DRO above laboratory method detection limits and the excavation floor soil sample was below NMOCD regulatory standards for constituent concentrations of TPH-GRO/DRO at 82 mg/kg. BTEX was not detected above laboratory method detection limits for the floor soil sample.

RECOMMENDATIONS FOR REMEDIATION

Based on the results of the soil delineation investigation which indicates the impacted soils are limited in extent to a vertical depth of approximately 33 feet bgs and groundwater depth approximately 460 feet bgs, Basin and Plains requests approval from the NMOCD to install an impermeable 20-ml poly-liner on the floor excavation area at a depth of approximately eighteen (18) 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 30 feet long by 30 feet wide, will mitigate migration of contaminants, human intrusion 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 approximately 2500 cubic yards of clean overburden and impacted soil will be blended and utilized as backfill material. The blended soil will be divided into equal grids of approximately 500 cubic yards, confirmation soil samples will be collected from the blended material to ensure TPH-GRO/DRO constituent concentrations of less than 1000 mg/kg are achieved and backfill the excavation with the blended soil after installation of the 20-ml poly-liner has been completed.

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. A request for closure will be submitted to the Hobbs District 1 office, upon completion of backfilling 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

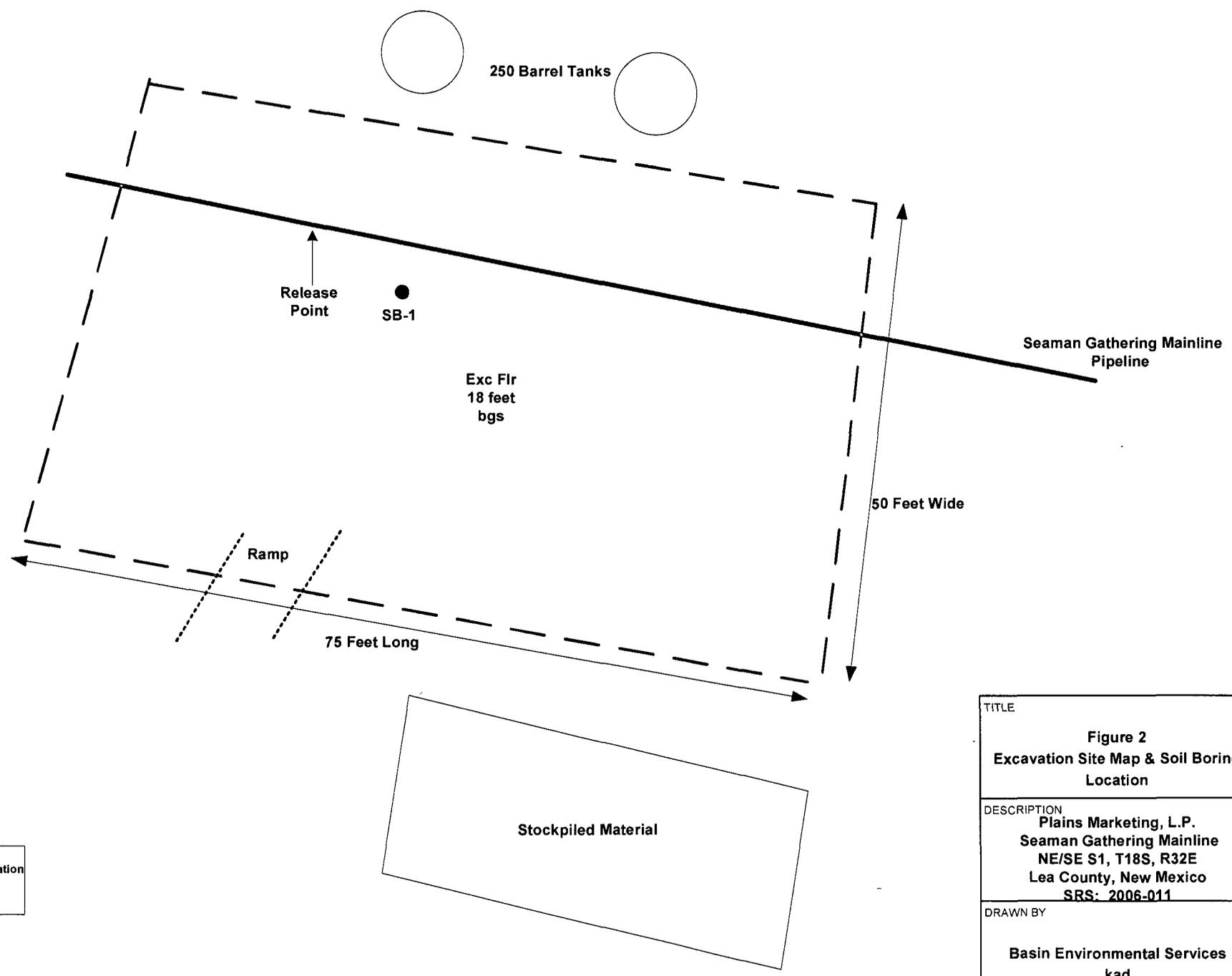
Copy 1: Jeff Dann
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3112 W. Highway 82
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cjreynolds@paalp.com

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

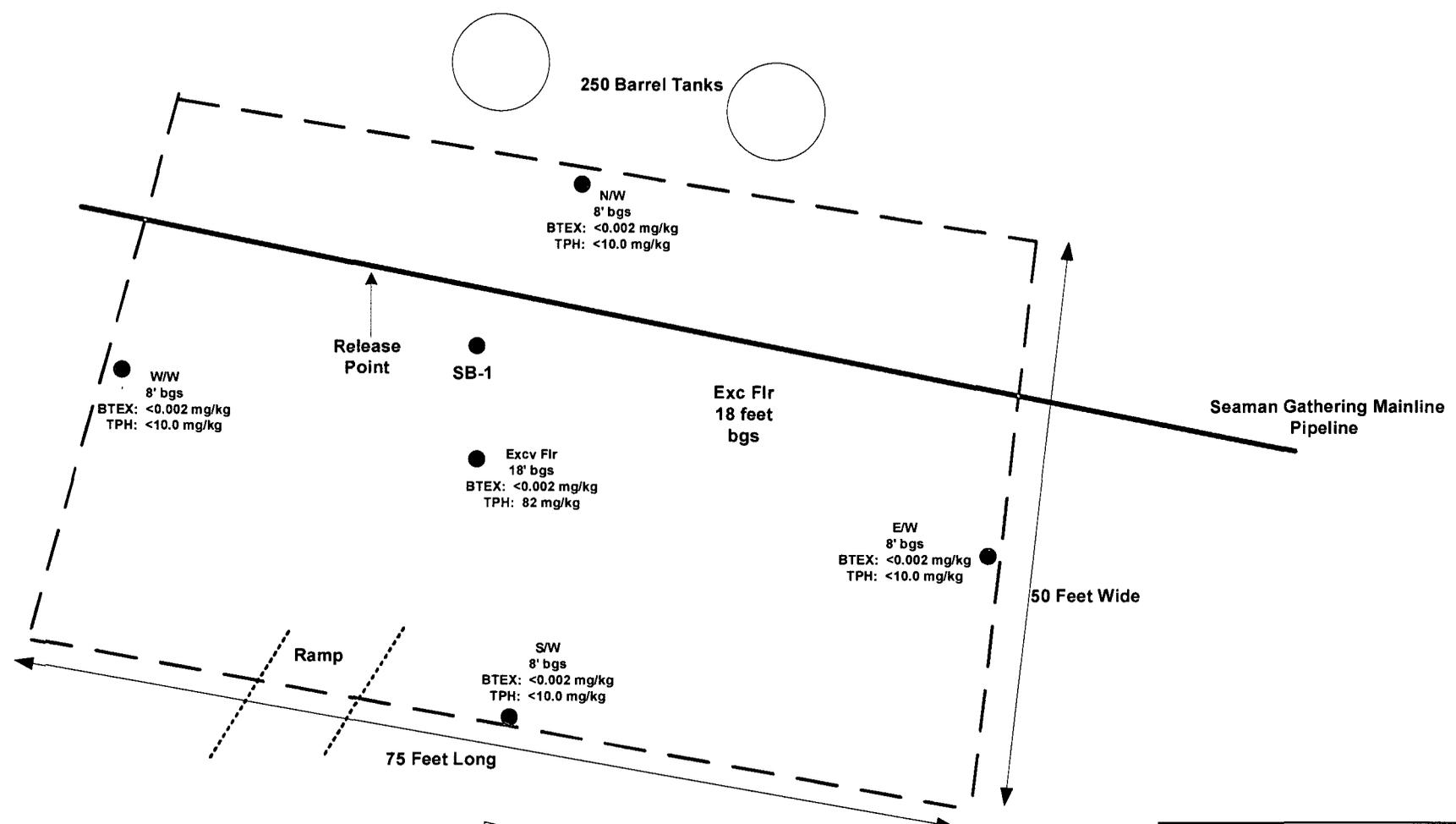
Copy 4: Basin Environmental Service Technologies LLC
P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com

Copy _____



Legend
● Soil Boring Location

TITLE	Figure 2 Excavation Site Map & Soil Boring Location
DESCRIPTION	Plains Marketing, L.P. Seaman Gathering Mainline NE/SE S1, T18S, R32E Lea County, New Mexico SRS: 2006-011
DRAWN BY	Basin Environmental Services kad

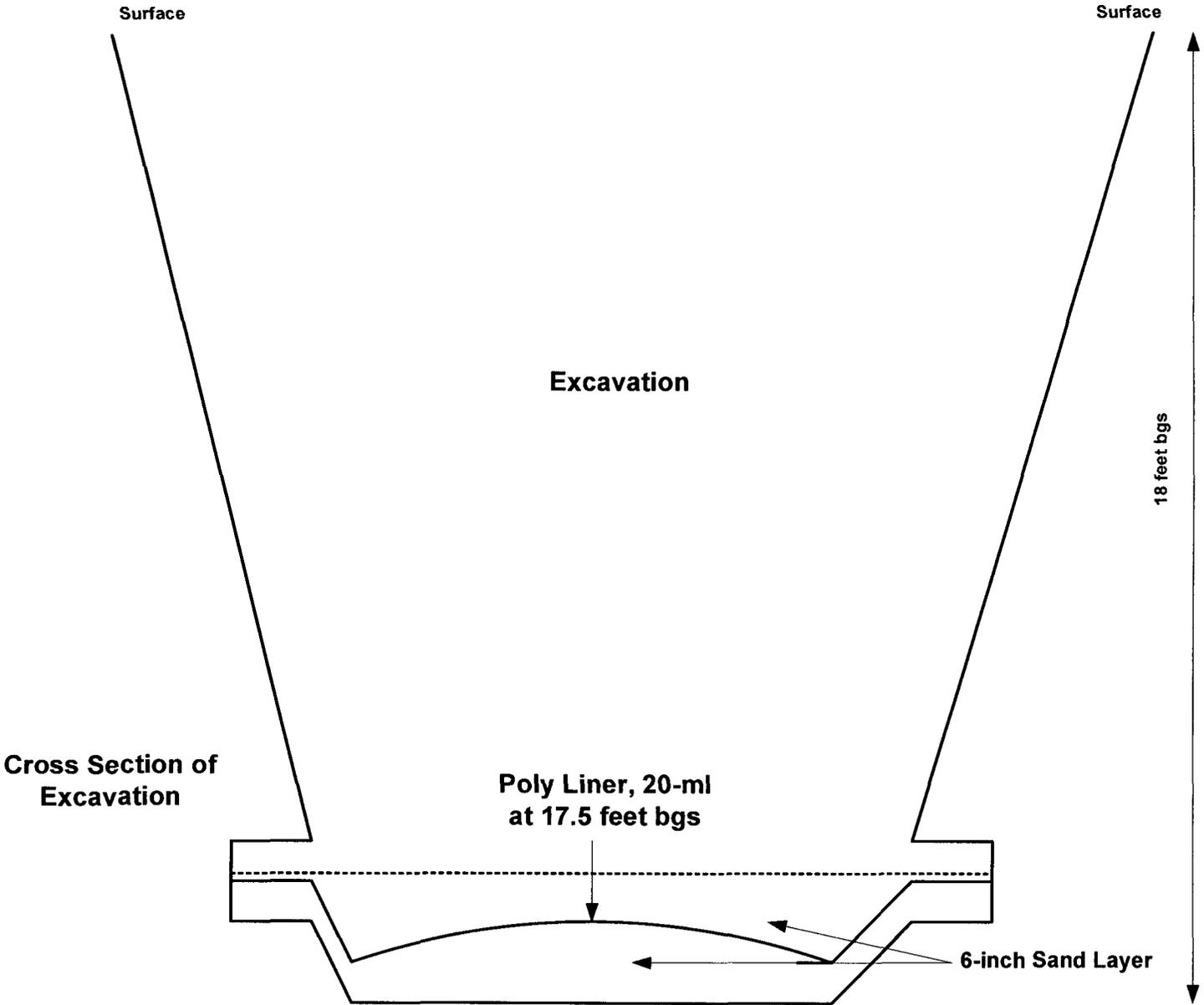


Legend

	Soil Boring Location
	Soil Sampling Locations

TITLE	Figure 3 Excavation Site Map & Soil Sampling Locations
DESCRIPTION	Plains Marketing, L.P. Seaman Gathering Mainline NE/SE S1, T18S, R32E Lea County, New Mexico SRS: 2006-011
DRAWN BY	Basin Environmental Services kad

**Seaman Gathering Mainline
20-mil Poly-Liner Installation**



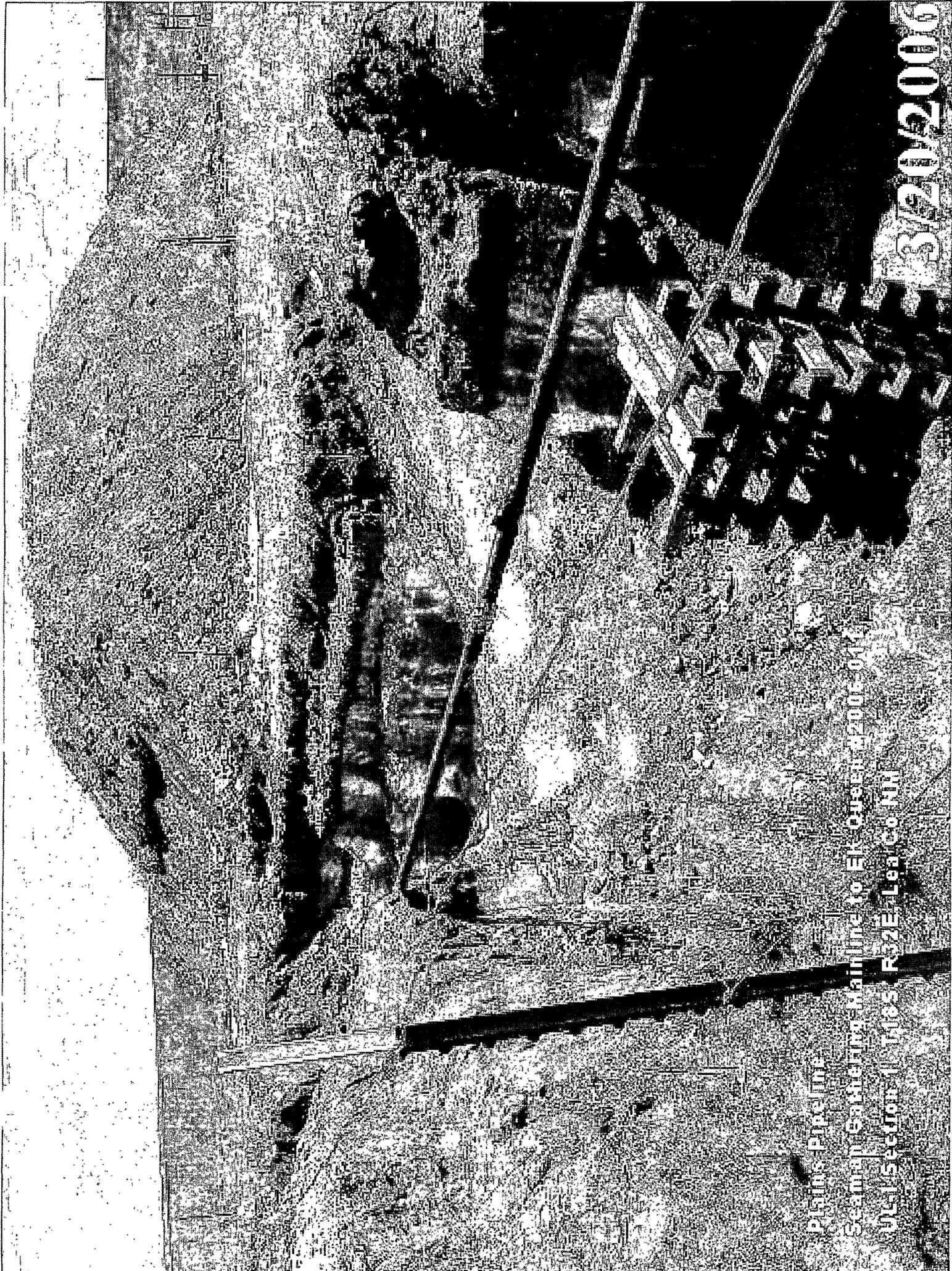
TITLE	Figure 5 Seaman Gathering Mainline	DATE	10 July 2007
DRAWN BY	Basin Environmental Services KAD	LABEL	Installation of 20 ml Poly Liner

Plains Pipeline

Seamap Gathering Mainline to Elk Creek #2006-012

Well Section 1, Tract R2E, Lea Co. NH

3/20/2006



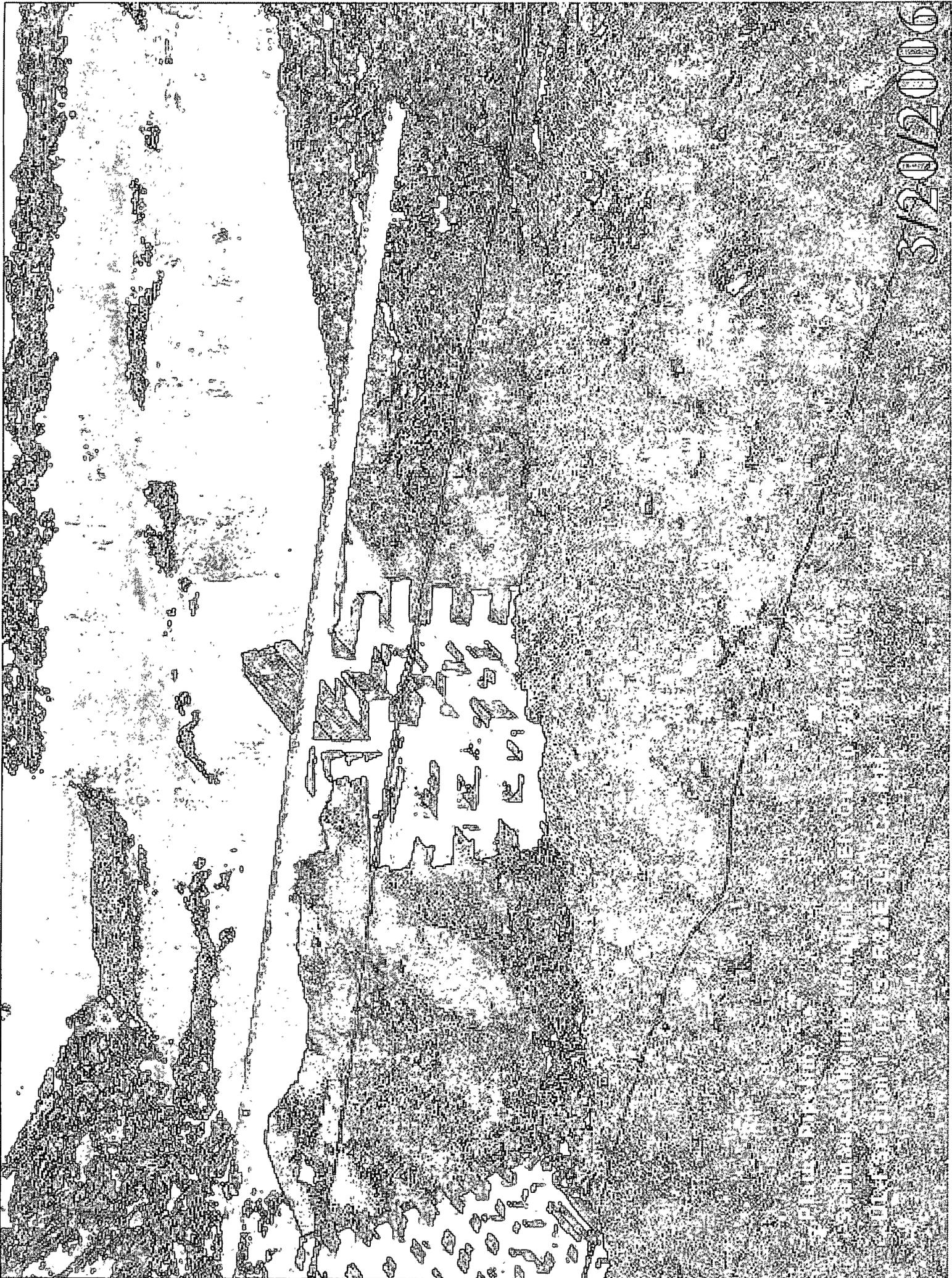


Palms Pipeline

Seismic Gathering between St. Elizabeth #2005-0-01

ULL Section 1, T105, R22E, 24A-50-01N

3/20/2006



3/20/2006

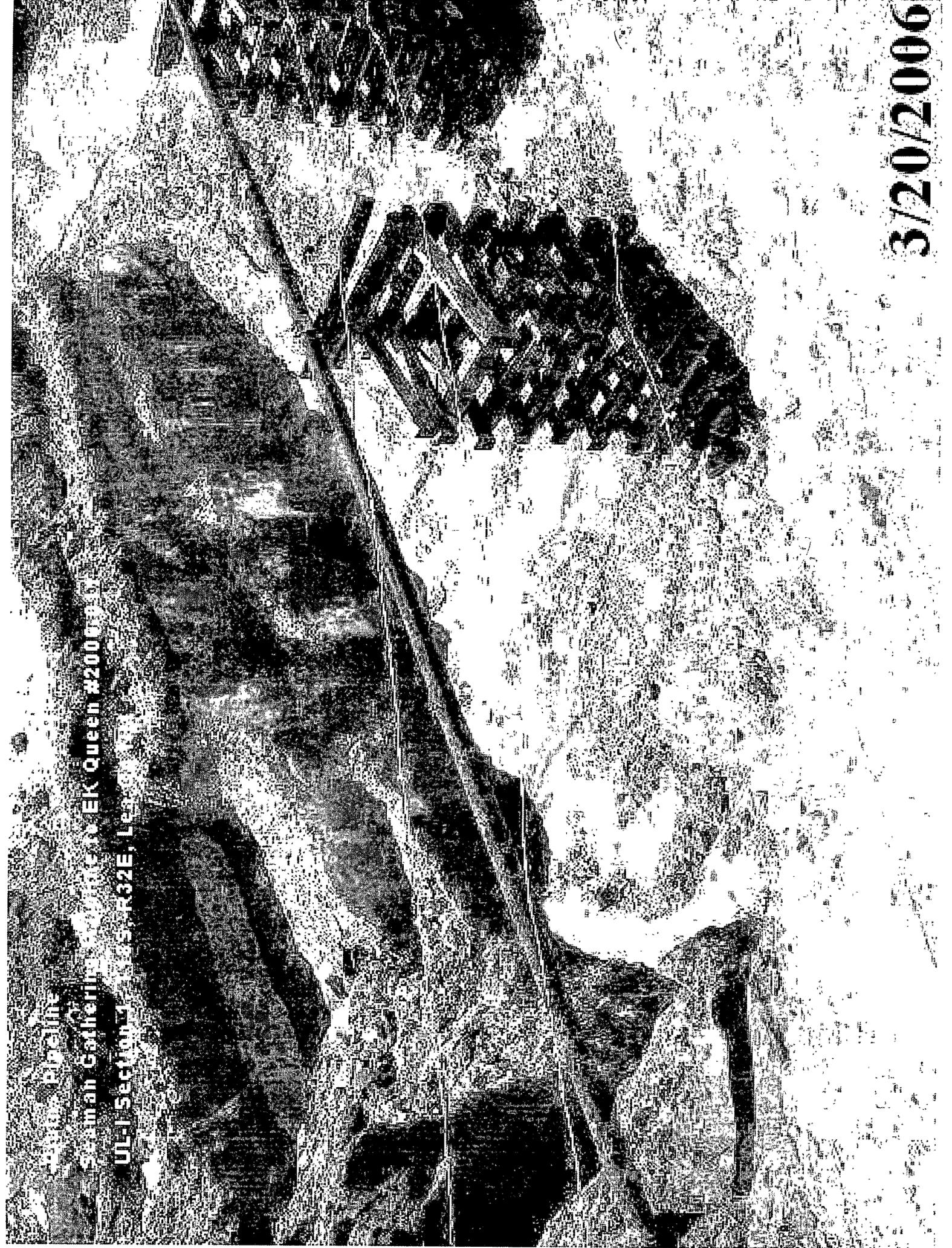
PHOTOGRAPHED BY THE U.S. ARMY CORPS OF ENGINEERS
FOR THE U.S. ARMY CORPS OF ENGINEERS
DATE: 3/20/2006

Water Pipeline

Seaman Gathering Station, EK Queen #2000950

UL-J Section 4, LES-R32E, LEA-001001

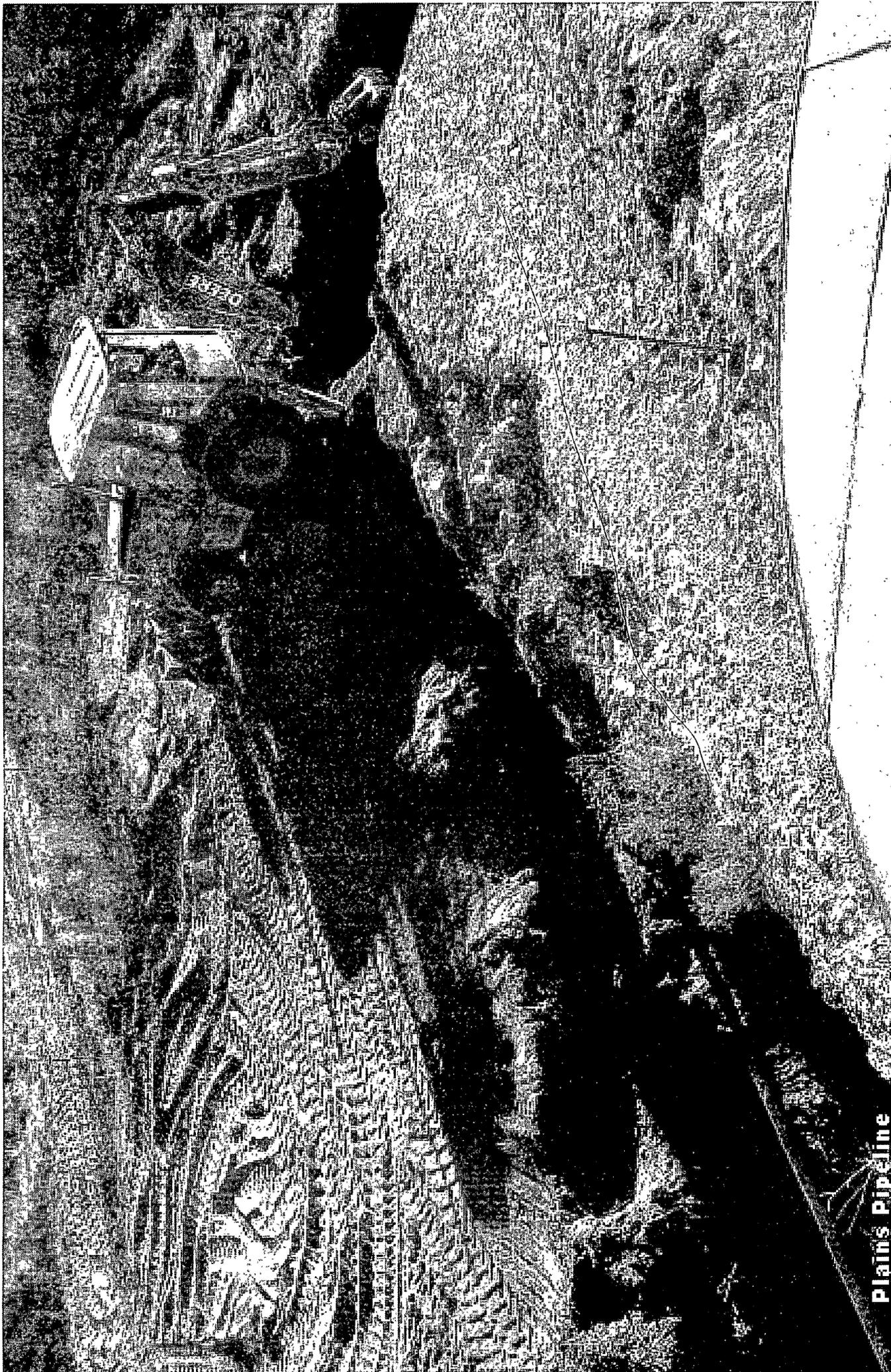
3/20/2006





APLINTS POSITIVE
SEM/EDS/BACKSCATTER/RETRONING/ET/CA/SEM/2206/011
QUINSECTION 11/18/85 RZE/LEA/CO/INH

1/20/2006



Plains Pipeline

Seaman Gathers to Mainline to Elk Queen

UL-I Section, W-185, R32E, T40N

01/05/2006



Plains Pipeline

Seaman Gathering Mainline to Elk Green #2002-04

ULH Section 1, T185, R32E, Lea Co NM

01/05/2006

Plain Pipeline

Seam Gathering Mainline to Ex-Queen Project

UL-1 Section 1, T185, R32E, Lea County

01/05/2006



**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 18S Range: 32E Sections: 1

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

AVERAGE DEPTH OF WATER REPORT 07/02/2007

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

No Records found, try again

**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 18S Range: 32E Sections: 12,7,8,9,10,11

NAD27 X: _____ Y: _____ Zone: Search Radius: _____

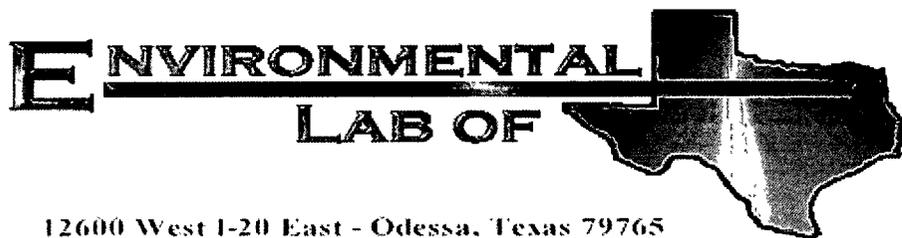
County: Basin: _____ Number: _____ Suffix: _____

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

AVERAGE DEPTH OF WATER REPORT 07/02/2007

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	18S	32E	07				1	460	460	460

Record Count: 1



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Seaman Gathering Mainline to EK Queen

Project Number: 2006-011

Location: Lea County, NM

Lab Order Number: 7F12003

Report Date: 06/15/07

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

Project Seaman Gathering Mainline to EK Queen
Project Number 2006-011
Project Manager Camille Reynolds

Fax (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N/W 8'	7F12003-01	Soil	06/11/07 10 30	06-12-2007 14 06
W/W 8'	7F12003-02	Soil	06/11/07 10 45	06-12-2007 14 06
S/W 8'	7F12003-03	Soil	06/11/07 11 00	06-12-2007 14 06
E/W 8'	7F12003-04	Soil	06/11/07 11 15	06-12-2007 14 06
EXCV FLR 16'	7F12003-05	Soil	06/11/07 11 30	06-12-2007 14 06
S/P-1	7F12003-06	Soil	06/11/07 11 35	06-12-2007 14 06
S/P-2	7F12003-07	Soil	06/11/07 11 40	06-12-2007 14 06

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

Project Seaman Gathering Mainline to EK Queen
 Project Number 2006-011
 Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N/W 8' (7F12003-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		76.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		119 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		111 %	70-130		"	"	"	"	
W/W 8' (7F12003-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.8 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		78.0 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		108 %	70-130		"	"	"	"	
S/W 8' (7F12003-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.0 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		78.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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

Project: Seaman Gathering Mainline to EK Queen
Project Number 2006-011
Project Manager Camille Reynolds

Fax (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S/W 8' (7F12003-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		104 %	70-130		"	"	"	"	
E/W 8' (7F12003-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.8 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		121 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130		"	"	"	"	
EXCV FLR 16' (7F12003-05) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.8 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		67.6 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C12-C28	55.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	26.6	10.0	"	"	"	"	"	"	
Total Hydrocarbons	82.3	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		121 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		114 %	70-130		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

A Xenco Laboratories Company

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

Project Seaman Gathering Mainline to EK Queen
 Project Number 2006-011
 Project Manager. Camille Reynolds

Fax (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S/P-1 (7F12003-06) Soil									
Benzene	J [0.00974]	0.0250	mg/kg dry	25	EF71201	06/12/07	06/13/07	EPA 8021B	J
Toluene	0.157	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.391	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.70	0.0250	"	"	"	"	"	"	
Xylene (o)	0.940	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		114 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	931	50.0	mg/kg dry	5	EF71303	06/13/07	06/13/07	EPA 8015M	
Carbon Ranges C12-C28	20000	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	2480	50.0	"	"	"	"	"	"	
Total Hydrocarbons	23400	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		30.0 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		88.0 %	70-130		"	"	"	"	S-06
S/P-2 (7F12003-07) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71201	06/12/07	06/13/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		75.2 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		69.4 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	50.0	mg/kg dry	5	EF71303	06/13/07	06/14/07	EPA 8015M	
Carbon Ranges C12-C28	401	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	189	50.0	"	"	"	"	"	"	
Total Hydrocarbons	590	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		24.0 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		23.4 %	70-130		"	"	"	"	S-06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N/W 8' (7F12003-01) Soil									
Chloride	9570	5.00	mg/L	1	EF71514	06/15/07	06/15/07	SW846-9253	
% Moisture	10.3	0.1	%	"	EF71301	06/12/07	06/13/07	% calculation	
W/W 8' (7F12003-02) Soil									
% Moisture	20.1	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	
S/W 8' (7F12003-03) Soil									
% Moisture	14.9	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	
E/W 8' (7F12003-04) Soil									
% Moisture	13.5	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	
EXCV FLR 16' (7F12003-05) Soil									
% Moisture	22.4	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	
S/P-1 (7F12003-06) Soil									
% Moisture	2.9	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	
S/P-2 (7F12003-07) Soil									
% Moisture	0.5	0.1	%	1	EF71301	06/12/07	06/13/07	% calculation	

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Project Seaman Gathering Mainline to EK Queen
 Project Number 2006-011
 Project Manager Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71201 - EPA 5030C (GC)										
Blank (EF71201-BLK1)										
Prepared & Analyzed 06/12/07										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate a,a,a-Trifluorotoluene	53.4		ug/kg	50.0		107	75-125			
Surrogate 4-Bromofluorobenzene	49.5		"	50.0		99.0	75-125			
LCS (EF71201-BS1)										
Prepared & Analyzed 06/12/07										
Benzene	0.0519	0.00100	mg/kg wet	0.0500		104	80-120			
Toluene	0.0535	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0520	0.00100	"	0.0500		104	80-120			
Xylene (p/m)	0.0998	0.00100	"	0.100		99.8	80-120			
Xylene (o)	0.0545	0.00100	"	0.0500		109	80-120			
Surrogate a,a,a-Trifluorotoluene	51.0		ug/kg	50.0		108	75-125			
Surrogate 4-Bromofluorobenzene	51.4		"	50.0		103	75-125			
Calibration Check (EF71201-CCV1)										
Prepared 06/12/07 Analyzed 06/13/07										
Benzene	0.0523		mg/kg wet	0.0500		105	80-120			
Toluene	0.0527		"	0.0500		105	80-120			
Ethylbenzene	0.0515		"	0.0500		103	80-120			
Xylene (p/m)	0.0971		"	0.100		97.1	80-120			
Xylene (o)	0.0534		"	0.0500		107	80-120			
Surrogate a,a,a-Trifluorotoluene	51.6		ug/kg	50.0		103	75-125			
Surrogate 4-Bromofluorobenzene	48.8		"	50.0		97.6	75-125			
Matrix Spike (EF71201-MS1)										
Source: 7F12003-07 Prepared 06/12/07 Analyzed 06/13/07										
Benzene	0.0859	0.00200	mg/kg dry	0.101	ND	85.0	80-120			
Toluene	0.0834	0.00200	"	0.101	ND	82.6	80-120			
Ethylbenzene	0.0788	0.00200	"	0.101	ND	78.0	80-120			M8
Xylene (p/m)	0.147	0.00200	"	0.201	ND	73.1	80-120			M8
Xylene (o)	0.0785	0.00200	"	0.101	ND	77.7	80-120			M8
Surrogate a,a,a-Trifluorotoluene	40.0		ug/kg	50.0		80.0	75-125			
Surrogate 4-Bromofluorobenzene	36.5		"	50.0		73.0	75-125			S-04

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 Project Number 2006-011
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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF71201 - EPA 5030C (GC)

Matrix Spike Dup (EF71201-MSD1)	Source: 7F12003-07			Prepared 06/12/07 Analyzed 06/13/07						
Benzene	0.0886	0.00200	mg/kg dry	0.101	ND	87.7	80-120	3.13	20	
Toluene	0.0884	0.00200	"	0.101	ND	87.5	80-120	5.76	20	
Ethylbenzene	0.0851	0.00200	"	0.101	ND	84.3	80-120	7.76	20	
Xylene (p/m)	0.157	0.00200	"	0.201	ND	78.1	80-120	6.61	20	M8
Xylene (o)	0.0848	0.00200	"	0.101	ND	84.0	80-120	7.79	20	
Surrogate a,a-Trifluorotoluene	40.9		ug/kg	50.0		81.8	75-125			
Surrogate 4-Bromofluorobenzene	38.9		"	50.0		77.8	75-125			

Batch EF71303 - Solvent Extraction (GC)

Blank (EF71303-BLK1)	Prepared & Analyzed 06/13/07				
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	63.9		mg/kg	50.0	128 70-130
Surrogate 1-Chlorooctadecane	56.9		"	50.0	114 70-130

LCS (EF71303-BS1)	Prepared & Analyzed 06/13/07				
Carbon Ranges C6-C12	463	10.0	mg/kg wet	500	92.6 75-125
Carbon Ranges C12-C28	427	10.0	"	500	85.4 75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	75-125
Total Hydrocarbons	890	10.0	"	1000	89.0 75-125
Surrogate 1-Chlorooctane	62.2		mg/kg	50.0	124 70-130
Surrogate 1-Chlorooctadecane	51.0		"	50.0	102 70-130

Calibration Check (EF71303-CCV1)	Prepared: 06/13/07 Analyzed 06/14/07				
Carbon Ranges C6-C12	211		mg/kg wet	250	84.4 80-120
Carbon Ranges C12-C28	239		"	250	95.6 80-120
Total Hydrocarbons	450		"	500	90.0 80-120
Surrogate 1-Chlorooctane	49.7		mg/kg	50.0	99.4 70-130
Surrogate 1-Chlorooctadecane	54.8		"	50.0	110 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
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Batch EF71303 - Solvent Extraction (GC)

Matrix Spike (EF71303-MS1)	Source: 7F13005-01		Prepared 06/13/07		Analyzed 06/14/07		
Carbon Ranges C6-C12	566	10.0	mg/kg dry	587	ND	96.4	75-125
Carbon Ranges C12-C28	466	10.0	"	587	ND	79.4	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbons	1030	10.0	"	1170	ND	88.0	75-125
Surrogate 1-Chlorooctane	65.1		mg/kg	50.0		130	70-130
Surrogate 1-Chlorooctadecane	60.9		"	50.0		122	70-130

Matrix Spike Dup (EF71303-MSD1)	Source: 7F13005-01		Prepared 06/13/07		Analyzed 06/14/07				
Carbon Ranges C6-C12	562	10.0	mg/kg dry	587	ND	95.7	75-125	0.729	20
Carbon Ranges C12-C28	481	10.0	"	587	ND	81.9	75-125	3.10	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1040	10.0	"	1170	ND	88.9	75-125	1.02	20
Surrogate 1-Chlorooctane	64.0		mg/kg	50.0		128	70-130		
Surrogate 1-Chlorooctadecane	58.8		"	50.0		118	70-130		

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Project Seaman Gathering Mainline to EK Queen
 Project Number. 2006-011
 Project Manager Camille Reynolds

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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 EF71301 - General Preparation (Prep)										
Blank (EF71301-BLK1)				Prepared 06/11/07 Analyzed 06/13/07						
% Solids	99.9		%							
Blank (EF71301-BLK2)				Prepared 06/12/07 Analyzed 06/13/07						
% Solids	100		%							
Duplicate (EF71301-DUP1)		Source: 7F08023-01		Prepared 06/11/07 Analyzed 06/13/07						
% Solids	94.6		%		94.2			0.424	20	
Duplicate (EF71301-DUP2)		Source: 7F11011-01		Prepared 06/12/07 Analyzed 06/13/07						
% Solids	75.9		%		75.9			0.00	20	
Duplicate (EF71301-DUP3)		Source: 7F12003-06		Prepared 06/12/07 Analyzed 06/13/07						
% Solids	97.2		%		97.1			0.103	20	
Batch EF71514 - General Preparation (WetChem)										
Blank (EF71514-BLK1)				Prepared & Analyzed 06/15/07						
Chloride	0.00	5.00	mg/L							
LCS (EF71514-BS1)				Prepared & Analyzed 06/15/07						
Chloride	94.7	5.00	mg/L	100		94.7	80-120			
Matrix Spike (EF71514-MS1)		Source: 7F12003-01		Prepared & Analyzed 06/15/07						
Chloride	19100	5.00	mg/L	10000	9570	95.3	80-120			
Matrix Spike Dup (EF71514-MSD1)		Source: 7F12003-01		Prepared & Analyzed 06/15/07						
Chloride	18900	5.00	mg/L	10000	9570	93.3	80-120	1.05	20	

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Project Number 2006-011
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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch EF71514 - General Preparation (WetChem)										
Reference (EF71514-SRM1)					Prepared & Analyzed 06/15/07					
Chlonde	53.2	5.00	mg/L	50.0		106	80-120			

Environmental Lab of Texas

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Project Seaman Gathering Mainline to EK Queen
Project Number: 2006-011
Project Manager Camille Reynolds

Fax (432) 687-4914

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

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/15/2007

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

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

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client Plains
 Date/ Time: 6/12/07 13:04
 Lab ID #: HF12003
 Initials ek

Sample Receipt Checklist

					Client Initials
#1 Temperature of container/ cooler?	Yes	No	0.0	°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		

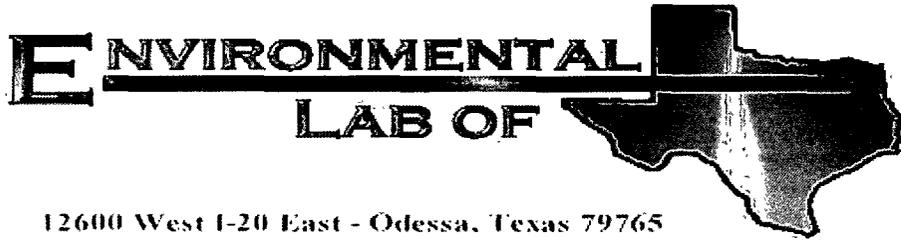
Variance Documentation

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



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jimmy Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Seaman Gathering Mainline to EK Queen

Project Number: 2006-011

Location: UL-I, Sec. 1, T18S, R32E

Lab Order Number: 6C28010

Report Date: 04/03/06

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Midland TX, 79706-4476

Project Seaman Gathering Mainline to EK Queen
Project Number 2006-011
Project Manager Jimmy Bryant

Fax (432) 687-4914

Reported:
04/03/06 09 30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1- 18'	6C28010-01	Soil	03/24/06 09 43	03/28/06 11 30
SB1- 23'	6C28010-02	Soil	03/24/06 09 59	03/28/06 11:30
SB1- 28'	6C28010-03	Soil	03/24/06 10 28	03/28/06 11:30
SB1- 33'	6C28010-04	Soil	03/24/06 11 00	03/28/06 11 30
SB1- 38'	6C28010-05	Soil	03/24/06 12 09	03/28/06 11:30
SB1- 43'	6C28010-06	Soil	03/24/06 13 58	03/28/06 11:30

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1- 18' (6C28010-01) Soil									
Carbon Ranges C6-C12	7300	20.0	mg/kg dry	2	EC62820	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	8500	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	991	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	16800	20.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		52.2 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		51.0 %	70-130		"	"	"	"	S-06
SB1- 23' (6C28010-02) Soil									
Carbon Ranges C6-C12	8210	20.0	mg/kg dry	2	EC62820	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	10900	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	1170	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	20300	20.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		84.6 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		60.4 %	70-130		"	"	"	"	S-06
SB1- 28' (6C28010-03) Soil									
Carbon Ranges C6-C12	4250	20.0	mg/kg dry	2	EC62907	03/29/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	5290	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	701	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	10200	20.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		62.8 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		54.8 %	70-130		"	"	"	"	S-06
SB1- 33' (6C28010-04) Soil									
Carbon Ranges C6-C12	3400	20.0	mg/kg dry	2	EC62907	03/29/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	4510	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	7910	20.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		73.2 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		65.8 %	70-130		"	"	"	"	S-06

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 Project Number 2006-011
 Project Manager Jimmy Bryant

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Reported:
 04/03/06 09 30

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBI- 38' (6C28010-05) Soil									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EC62907	03/29/06	03/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10 0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130	"	"	"	"	"	
SBI- 43' (6C28010-06) Soil									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EC62907	03/29/06	03/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10 0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		120 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		122 %	70-130	"	"	"	"	"	

Plains All American EH & S 1301 S County Road 1150 Midland TX, 79706-4476	Project Seaman Gathering Mainline to EK Queen Project Number 2006-011 Project Manager Jimmy Bryant	Fax (432) 687-4914 Reported: 04/03/06 09 30
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**General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1- 18' (6C28010-01) Soil									
% Moisture	13.1	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
SB1- 23' (6C28010-02) Soil									
% Moisture	12.0	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
SB1- 28' (6C28010-03) Soil									
% Moisture	11.8	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
SB1- 33' (6C28010-04) Soil									
% Moisture	9.6	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
SB1- 38' (6C28010-05) Soil									
% Moisture	5.3	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
SB1- 43' (6C28010-06) Soil									
% Moisture	5.9	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	

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 1301 S County Road 1150
 Midland TX, 79706-4476

Project Seaman Gathering Mainline to EK Queen
 Project Number 2006-011
 Project Manager Jimmy Bryant

Fax (432) 687-4914

Reported:
 04/03/06 09 30

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1- 18' (6C28010-01) Soil									
Benzene	73600	1000	ug/kg dry	1000	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	167000	1000	"	"	"	"	"	"	
Ethylbenzene	90900	1000	"	"	"	"	"	"	
Xylene (p/m)	126000	1000	"	"	"	"	"	"	
Xylene (o)	61200	1000	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>70-139</i>		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>85.2 %</i>	<i>52-149</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>76-125</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>66-145</i>		"	"	"	"	
SB1- 23' (6C28010-02) Soil									
Benzene	66400	1000	ug/kg dry	1000	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	156000	1000	"	"	"	"	"	"	
Ethylbenzene	79500	1000	"	"	"	"	"	"	
Xylene (p/m)	108000	1000	"	"	"	"	"	"	
Xylene (o)	49800	1000	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>70-139</i>		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>85.2 %</i>	<i>52-149</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>76-125</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>66-145</i>		"	"	"	"	
SB1- 28' (6C28010-03) Soil									
Benzene	29500	1000	ug/kg dry	1000	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	111000	1000	"	"	"	"	"	"	
Ethylbenzene	44900	1000	"	"	"	"	"	"	
Xylene (p/m)	76800	1000	"	"	"	"	"	"	
Xylene (o)	33900	1000	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>103 %</i>	<i>70-139</i>		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>87.6 %</i>	<i>52-149</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>76-125</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>66-145</i>		"	"	"	"	

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 Reported:
 04/03/06 09.30

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1- 33' (6C28010-04) Soil									
Benzene	20000	1000	ug/kg dry	1000	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	106000	1000	"	"	"	"	"	"	
Ethylbenzene	56800	1000	"	"	"	"	"	"	
Xylene (p/m)	60500	1000	"	"	"	"	"	"	
Xylene (o)	27200	1000	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	70-139		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.8 %	52-149		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	76-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.8 %	66-145		"	"	"	"	
SB1- 38' (6C28010-05) Soil									
Benzene	ND	25 0	ug/kg dry	25	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	ND	25 0	"	"	"	"	"	"	
Ethylbenzene	ND	25 0	"	"	"	"	"	"	
Xylene (p/m)	ND	25 0	"	"	"	"	"	"	
Xylene (o)	ND	25.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	70-139		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.8 %	52-149		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	76-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.0 %	66-145		"	"	"	"	
SB1- 43' (6C28010-06) Soil									
Benzene	ND	25 0	ug/kg dry	25	EC62813	03/30/06	03/30/06	EPA 8260B	
Toluene	ND	25 0	"	"	"	"	"	"	
Ethylbenzene	ND	25 0	"	"	"	"	"	"	
Xylene (p/m)	ND	25 0	"	"	"	"	"	"	
Xylene (o)	ND	25.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	70-139		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.4 %	52-149		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	76-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.8 %	66-145		"	"	"	"	

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Project. Seaman Gathering Manline to EK Queen
 Project Number 2006-011
 Project Manager Jimmy Bryant

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Reported:
 04/03/06 09 30

**Organics by GC - Quality Control
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62820 - Solvent Extraction (GC)

Blank (EC62820-BLK1)

Prepared 03/28/06 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	46.1		mg/kg	50.0		92.2	70-130			
Surrogate 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			

LCS (EC62820-BS1)

Prepared 03/28/06 Analyzed 03/29/06

Carbon Ranges C6-C12	599	10.0	mg/kg wet	500		120	75-125			
Carbon Ranges C12-C28	591	10.0	"	500		118	75-125			
Total Hydrocarbon C6-C35	1190	10.0	"	1000		119	75-125			
Surrogate 1-Chlorooctane	64.5		mg/kg	50.0		129	70-130			
Surrogate 1-Chlorooctadecane	63.3		"	50.0		127	70-130			

Calibration Check (EC62820-CCV1)

Prepared 03/28/06 Analyzed 03/29/06

Carbon Ranges C6-C12	236		mg/kg	250		94.4	80-120			
Carbon Ranges C12-C28	298		"	250		119	80-120			
Total Hydrocarbon C6-C35	534		"	500		107	80-120			
Surrogate 1-Chlorooctane	54.3		"	50.0		109	70-130			
Surrogate 1-Chlorooctadecane	53.6		"	50.0		107	70-130			

Matrix Spike (EC62820-MS1)

Source: 6C27008-04

Prepared 03/28/06 Analyzed 03/29/06

Carbon Ranges C6-C12	589	10.0	mg/kg dry	594	ND	99.2	75-125			
Carbon Ranges C12-C28	569	10.0	"	594	ND	95.8	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1190	ND	97.5	75-125			
Surrogate 1-Chlorooctane	57.7		mg/kg	50.0		115	70-130			
Surrogate 1-Chlorooctadecane	51.8		"	50.0		104	70-130			

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Project: Seaman Gathering Mainline to EK Queen
Project Number 2006-011
Project Manager Jimmy Bryant

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Reported:
04/03/06 09:30

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62820 - Solvent Extraction (GC)

Matrix Spike Dup (EC62820-MSD1)

Source: 6C27008-04

Prepared 03/28/06 Analyzed 03/29/06

Carbon Ranges C6-C12	605	10.0	mg/kg dry	594	ND	102	75-125	2.68	20	
Carbon Ranges C12-C28	585	10.0	"	594	ND	98.5	75-125	2.77	20	
Total Hydrocarbon C6-C35	1190	10.0	"	1190	ND	100	75-125	2.55	20	
Surrogate 1-Chlorooctane	59.0		mg/kg	50.0		118	70-130			
Surrogate 1-Chlorooctadecane	53.1		"	50.0		106	70-130			

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			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62907 - Solvent Extraction (GC)

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			
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			

Plains All American EH & S 1301 S County Road 1150 Midland TX, 79706-4476	Project Seaman Gathering Mainline to EK Queen Project Number 2006-011 Project Manager Jimmy Bryant	Fax (432) 687-4914 Reported: 04/03/06 09:30
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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	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62813 - EPA 5030C (GCMS)

Blank (EC62813-BLK1)

Prepared 03/28/06 Analyzed 03/29/06

Benzene	ND	25.0	ug/kg wet							
Toluene	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
Xylene (p/m)	ND	25.0	"							
Xylene (o)	ND	25.0	"							
Surrogate Dibromofluoromethane	46.9		ug/kg	50.0		93.8	70-139			
Surrogate 1,2-Dichloroethane-d4	42.6		"	50.0		85.2	52-149			
Surrogate Toluene-d8	50.9		"	50.0		102	76-125			
Surrogate 4-Bromofluorobenzene	47.7		"	50.0		95.4	66-145			

LCS (EC62813-BS1)

Prepared 03/28/06 Analyzed 03/29/06

Benzene	1220	25.0	ug/kg wet	1250		97.6	70-130			
Toluene	1470	25.0	"	1250		118	70-130			
Ethylbenzene	1200	25.0	"	1250		96.0	70-130			
Xylene (p/m)	2310	25.0	"	2500		92.4	70-130			
Xylene (o)	1180	25.0	"	1250		94.4	70-130			
Surrogate Dibromofluoromethane	46.8		ug/kg	50.0		93.6	70-139			
Surrogate 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	52-149			
Surrogate Toluene-d8	52.8		"	50.0		106	76-125			
Surrogate 4-Bromofluorobenzene	46.9		"	50.0		93.8	66-145			

Calibration Check (EC62813-CCV1)

Prepared 03/28/06 Analyzed 03/29/06

Toluene	50.6		ug/kg	50.0		101	70-130			
Ethylbenzene	41.7		"	50.0		83.4	70-130			
Surrogate Dibromofluoromethane	48.5		"	50.0		97.0	70-139			
Surrogate 1,2-Dichloroethane-d4	42.5		"	50.0		85.0	52-149			
Surrogate Toluene-d8	51.5		"	50.0		103	76-125			
Surrogate 4-Bromofluorobenzene	47.6		"	50.0		95.2	66-145			

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62813 - EPA 5030C (GCMS)

Matrix Spike (EC62813-MS1)	Source: 6C24003-16			Prepared	03/28/06	Analyzed	03/30/06
Benzene	1280	25 0	ug/kg dry	1320	ND	97 0	70-130
Toluene	1550	25 0	"	1320	ND	117	70-130
Ethylbenzene	1250	25 0	"	1320	ND	94 7	70-130
Xylene (p/m)	2400	25 0	"	2650	ND	90 6	70-130
Xylene (o)	1240	25.0	"	1320	ND	93.9	70-130
<i>Surrogate Dibromofluoromethane</i>	<i>50 1</i>		<i>ug/kg</i>	<i>50 0</i>		<i>100</i>	<i>70-139</i>
<i>Surrogate 1,2-Dichloroethane-d4</i>	<i>50 3</i>		<i>"</i>	<i>50 0</i>		<i>101</i>	<i>52-149</i>
<i>Surrogate Toluene-d8</i>	<i>53 2</i>		<i>"</i>	<i>50 0</i>		<i>106</i>	<i>76-125</i>
<i>Surrogate 4-Bromofluorobenzene</i>	<i>46 8</i>		<i>"</i>	<i>50 0</i>		<i>93 6</i>	<i>66-145</i>

Matrix Spike Dup (EC62813-MSD1)	Source: 6C24003-16			Prepared	03/28/06	Analyzed	03/30/06		
Benzene	1360	25 0	ug/kg dry	1320	ND	103	70-130	6.00	20
Toluene	1720	25 0	"	1320	ND	130	70-130	10 5	20
Ethylbenzene	1250	25 0	"	1320	ND	94 7	70-130	0 00	20
Xylene (p/m)	2340	25 0	"	2650	ND	88 3	70-130	2 57	20
Xylene (o)	1210	25 0	"	1320	ND	91.7	70-130	2 37	20
<i>Surrogate Dibromofluoromethane</i>	<i>47 8</i>		<i>ug/kg</i>	<i>50 0</i>		<i>95 6</i>	<i>70-139</i>		
<i>Surrogate 1,2-Dichloroethane-d4</i>	<i>54 8</i>		<i>"</i>	<i>50 0</i>		<i>110</i>	<i>52-149</i>		
<i>Surrogate Toluene-d8</i>	<i>59 2</i>		<i>"</i>	<i>50 0</i>		<i>118</i>	<i>76-125</i>		
<i>Surrogate 4-Bromofluorobenzene</i>	<i>46 6</i>		<i>"</i>	<i>50 0</i>		<i>93 2</i>	<i>66-145</i>		

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Project Seaman Gathering Mainline to EK Queen
Project Number 2006-011
Project Manager Jimmy Bryant

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Reported:
04/03/06 09 30

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

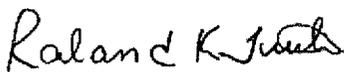
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

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

Client Plains
 Date/Time 8/28/00 11:30
 Order # 6228010
 Initials CK

Sample Receipt Checklist

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

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

Initial Report Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Seaman Gathering Mainline to EK Queen	Facility Type 4" Steel Pipeline
Surface Owner Caviness Cattle Company	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
I	I	18S	32E					Lea

Latitude 32° 46' 24.4" Longitude 103° 42' 52.4"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 7 barrels	Volume Recovered 2 barrels
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 1-04-06 @ 14:00	Date and Hour of Discovery 1-04-06 @ 14:10
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 1-04-06 @ 16:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* External corrosion of a 4 inch steel pipeline resulted in a release of sweet crude oil. A clamp was installed on the line to mitigate the release. The line is an 4 inch steel transmission pipeline that produces approximately 1,400 barrels of crude oil per day. The pressure on the line is approximately 40 psi and the gravity of the sweet crude oil is 41.6. The sweet crude has an H₂S content of <10 ppm. The line was approximately 3 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 120 ft².

*BLEND STOCKPILE TO <5000 PPM
TPH & BACKFILL FND
2494407*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor: <i>J. Phusa</i>	
Title: Remediation Coordinator	Approval Date: 7-24-07	Expiration Date: 10-24-07
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: RBC PLAN APPROVED AS DISCUSSED.	Attached <input type="checkbox"/>
Date: 1-09-06	Phone: 505-441-0965	<i>RP# 1456</i>