

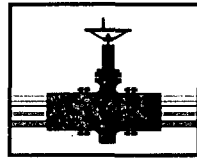
1R – 411

WORK PLAN

DATE:

JULY 2006

August 11, 2006



PLAINS
MARKETING, L.P.

1R-411
Work Plan
July 2006

Mr. Ben Stone
State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline, L.P.
Document Submittal
Clay Osborn Ranch – Jalmat #1
Clay Osborn Ranch – Jalmat #2
Clay Osborn Ranch – Jalmat #3
Clay Osborn Ranch – Rocky Top #2
Clay Osborn Ranch – Jalmat #22A ✓
Clay Osborn Ranch – East Shell North
Jal, Lea County, New Mexico

Dear Mr. Stone:

Plains Pipeline, L.P. (Plains) is pleased to submit the attached Site Investigation Reports and Site-Specific Remediation Work Plans for six of the soil remediation project sites located on the Osborn's Rocky Top Ranch in Jal, Lea County, New Mexico. These documents include the results of an additional soil investigation conducted at the site and the remediation plan are based on the General Remediation Work Plan recently submitted to the New Mexico Oil Conservation Commission (NMOCD) by Plains.

Should you have any questions or comments, please contact me at (713) 646-4657.

Sincerely,

Jeffrey P. Dann, P.G.
Sr. Environmental Specialist
Plains All American

Attachments: Jalmat #1, #2, #3, #22A, East Shell North and Rocky Top #2, 22B Site Investigation Report and Site-Specific Remediation Work Plans

File: n:\jeff-files\Osborn-RockyTopRanch\Jalmat-1 CovrLtr.doc

**SITE INVESTIGATION REPORT
and
SITE-SPECIFIC REMEDIATION WORK PLAN**

**Clay Osborn Rocky Top Ranch
Jalmat 22A Release Site**

**SW1/4 SW1/4 UL-E, Section 18, Township 25 North, Range 37 East
Latitude 32° 7' 58" Latitude North, Longitude 103° 12' 38" West
Lea County, New Mexico**

PLAINS PIPELINE, L.P. SRS ID: 2000-10614

Prepared For:

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

Prepared By:

SDG Environmental Services
6611 Vialinda, Suite 204
Houston, Texas 77083

July 2006


Kenneth Cody
SDG Environmental Services

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1.0 INTRODUCTION

SDG Environmental Services (SDG) was retained by Plains Pipeline, L.P. (Plains) to evaluate historical information, conduct additional investigation, and develop a site-specific remediation work plan for the Clay Osborn Jalmat 22A release site located on the Clay Osborne Rocky Top Ranch in Lea County, New Mexico. Plains is the owner/operator of several pipelines present on the Clay Osborne Rocky Top Ranch located near Jal, New Mexico.

This site is located in Unit Letter-E, in the SW¼ SW ¼ of Section 18, Township 25 North, Range 37 East, approximately 1-mile northwest of Jal, Lea County, New Mexico. A topographic Site Location Map is provided as Figure 1. The latitude is 32° 7' 58" North, and Longitude 103° 12' 38" West. The site is characterized by a pipeline right-of-way in a pasture and an area of surface staining.

The hydrocarbon impacted area is the result of a historical release and the date of the release as well as the volume of crude oil released and recovered is not known. The visually stained area is approximately 23,500 ft². A summary of site activities is provided in Section 2.0

Plains prepared and submitted a General Remediation Work Plan dated April 2006 to address the release sites located on the Rocky Top Ranch. The objective of the General Remediation Work Plan was to remediate crude oil impacted sites at the Rocky Top Ranch, consistent with the remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) "NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, August 13, 1993." The General Remediation Work Plan proposed appropriate risk-based thresholds for contaminants of concern (CoCs) based on relative risk posed by the CoC residuals to local groundwater, area water wells, surface water bodies and impacts on surface reclamation.

The General Remediation Work Plan proposed remediation strategies for sites would be developed under the following three scenarios.

1. Surface Restoration Sites (Scenario 1)

This scenario was developed for sites where investigation data indicates that the surface area has restored itself naturally, the surface expression of the release is difficult to identify, the impacts are limited to the surface and/or shallow soils, and there is no threat to groundwater.

2. Total Excavation (Scenario 2)

For sites where data indicates that soil impacts are limited in vertical extent (i.e. 10 to 15 feet in depth) and total excavation of the impacted soil is practical.

3. Limited Excavation and Risk-based Closure (scenario 3)

For sites where data indicates that soil impacts in the source area extend to between 10 feet and 45 feet below ground surface (bgs) and excavation of all the impacted soil to below NMOCD guidelines is not practical.

The General Remediation Work Plan was conditionally approved by the NMOCD in a letter to Plains dated May 30, 2006.

The soil analytical data in the EPI December 2001 Jalmat #22A Site Investigation Report as well as the visual observations, field photoionization detector (PID) measurement, and soil analytical data from a site investigation conducted in May 2006 by SDG was used in development of this Site Specific Remediation Work Plan.

2.0 SUMMARY OF SITE ACTIVITIES

On 27 July 2000 through 3 August 2000, initial subsurface horizontal and vertical delineation was conducted by EPI with the installation of twenty-six (26) soil borings installed at the site. Each soil boring was installed to a depth of 15 feet bgs and are identified in Figure 2 as BH-1 through BH-26. Soil samples were collected at depths of 2, 5, 10, and 15 feet bgs field screened with a PID and analyzed for BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were either below NMOCD regulatory standards or not detected above laboratory method detection limits on the one hundred four (104) soil samples. Laboratory results indicated that TPH-GRO/DRO concentrations exceed 100 mg/kg TPH in thirty (30) of the soil samples and the remaining seventy-four (74) soil samples were either below NMOCD regulatory standards or were not detected above the laboratory method detection limits. The highest concentrations were exhibited in samples collected from BH-25 and BH-26. A table summarizing the analytical results from July/August 2000 investigation report is provided in Appendix C.

On 25 May 2006, SDG conducted an additional soil investigation in an effort to determine the vertical extent of impacts at the Clay Osborn Jalmat 22A site. Clay Osborn Jalmat 22A site was identified as an area of stained soils south of the Plains pipeline right-of-way.

One soil boring was installed in the Clay Osborne Jalmat 22A area and is identified in Figure 2 as JM 22A-SB1. Soil Boring JM 22A-SB1 was installed to 25 feet bgs and no groundwater was encountered.

The soil boring was installed by Straub Corporation, Stanton, Texas utilizing an air rotary drill rig. Soil samples were collected at 2 ft, 5 ft, 10 ft, 15 ft, 20 ft, and 25 ft depths using a core sampler. Soil samples were split for headspace analysis to screen for total volatile organic vapor concentrations in soils. A one quart zip-lock bag was filled one-half full of soil and sealed leaving the remainder of the bag filled with air. The sample was allowed to volatilize for five to ten minutes. One end of the bag was opened and the PID probe inserted carefully into the bag and the bag re-

sealed around the probe as much as possible to prevent vapors from escaping. The peak measurement associated with the sample was recorded. The peak PID measurements are provided on the soil boring log included in Appendix B.

3.0 NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

The December 8, 2001 Site Investigation Report provided an estimated depth to water at the site of 70 ft bgs. A soil boring installed at a nearby site (Jalmat 22B) (LM22B-SB1) during the May 2006 investigation indicated the depth to water at the site may be greater than 75 ft. Based on the analytical results of soil samples, the hydrocarbon impacted soil extends from the surface to 15 feet bgs, therefore, less than 100 feet of non-impacted soil remains between the last known impacted soil depth and groundwater. The resulting Depth to Groundwater Ranking Score is 10.

The site is greater than 1000 ft from any public water supply source and greater than 200 feet from any private domestic water supply well. The resulting Wellhead Protection Ranking Score is 0.

During remediation activities associated with the Texas-New Mexico Pipeline conducted in the 1990's, a retention basin was constructed to contain runoff from the land farm located east of the site. The retention basin is located approximately 890 ft southwest of the site. At the time of the May 2006 investigation, there was no water in the basin. There are no surface water bodies not constructed as part of remediation within 1000 ft of the site. The resulting Distance to Surface Water Body Ranking Score is 0.

Based on the individual ranking scores identified above, the site has an NMOCD Total Ranking Score of 10 to 19, which establish the following remediation levels:

Benzene:	10 mg/kg
BTEX:	50 mg/kg
TPH:	1000 mg/kg

4.0 DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The estimated area of soils impacted above NMOCD Standards is shown in Figure 3. The area is estimated to be approximately 16,875 square feet. The vertical extent of soils impacted above NMOCD standards based on the data obtained in the 22 May 2006 subsurface sampling is surface to less than 10 feet bgs.

On 25 May 2006, an air rotary drill rig, operated by Straub Corporation, Stanton, Texas, was utilized to delineate the vertical extent of crude oil impacted soil at the site. Soil samples were collected in the subsurface from the soil boring at 5 feet intervals; field screened with a PID and selected soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory data sheets and chain-of-custody forms are attached (Appendix A). No visual observations of free phase hydrocarbons were encountered during the installation of the soil boring. The soil boring log is provided in Appendix B.

Soil Boring JM 22A-SB1 was installed adjacent to the location of the historical boring BH-25. This location was selected based on the data provided in the December 2001 Investigation Report which indicated that the impacted soils at this location was not vertically delineated. The soil boring was installed to 25 feet bgs and samples were collected at 2, 5, 10, 15, 20, and, 25 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the samples. Analytical results indicated that TPH concentration exceeded the NMOCD standard of 1000 mg/kg at 2 feet bgs (6,190 mg/kg) and at 5 feet bgs (5,170 mg/kg). TPH was detected at 10 feet bgs (32.4 mg/kg) but did not exceed NMOCD standard of 1000 mg/kg. TPH was not detected above the laboratory detection limits in soil samples collected at 15, 20, and 25 feet bgs.

The extent of hydrocarbon impacted soils has been delineated vertically. Hydrocarbon impacted shallow soils shallower than 10 feet bgs have not been fully delineated to the north of the location of historical soil boring BH-8. However, based on the results of the soil samples collected and analyzed from surrounding soil borings, it is likely that the horizontal impact of shallow soils are limited in extent.

5.0 DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

No saturated conditions were observed in the boring. Soil boring JM 22A-SB1 was installed to 25 feet bgs and no groundwater was encountered. The depth of hydrocarbon impacted soils above 1000 mg/kg TPH is limited to less than 15 feet bgs. Therefore there is no indication that hydrocarbons from the historical release have impacted the saturated zone.

6.0 RECOMMENDATIONS FOR REMEDIATION

Based on the results of the vertical soil boring investigation conducted at the site, it appears that hydrocarbon impacted soils are present to depths of 5 to 10 feet bgs. Given the NMOCD guideline cleanup standard of 1000 mg/kg TPH, an estimated 5,000 cubic yards of impacted soil and segregated clean overburden will require excavation. Because the horizontal impacts have not been fully defined, delineation samples will be collected commensurate with excavation and/or cleanup confirmation sampling activities.

The area with observed staining and where laboratory analytical results indicate that surface impacts do not extend to below 2 feet bgs as defined by soil borings BH6, BH7, and BH10 through BH20 will be addressed under the General Work Plan Scenario 1 involving the following procedures as were outlined under the General Remediation Work Plan and approved by NMOCD in the May 2006 NMOCD approval letter:

General Work Plan Scenario 1

- Scrape the surface asphaltines where apparent and remove;
- Blend the underlying 1 to 2 feet of soil with native soil and contour;
- Do not disturb areas that have already re-vegetated.

Because the impacts greater than 1000 mg/kg TPH are limited in vertical extent (i.e. 5 to 10 feet in depth) as defined by soil borings BH5, BH8, BH9, BH21 through BH24, and JM22A-SB1; these soils will be remediated under the General Work Plan Scenario 2 (Total Excavation) involving the following procedures as were outlined in the approved General Remediation Work Plan and includes NMOCD conditions presented in the May 2006 NMOCD approval letter.

General Work Plan Scenario 2

- Excavation of impacted soil to below site guidelines;
- Collect and analyze soil sample from the walls and floor of the excavation to confirm that the remediation has met site guidelines;
- Relocation of excavated soil to the centralized soil treatment area for blending and aeration;
- Collect and analyze treated soil to confirm that the soil treatment activities have met site guidelines;
- Prepare a risk based closure proposal for submittal and approval by the NMOCD;
- Backfill the excavation with treated soil and restore the area to as close as possible to pre-spill conditions.

Should impacted soils be determined to be limited in extent based on additional delineation samples collected commensurate with excavation activities, the soils may be blended on site and stockpiled adjacent to the excavation pending approval of the NMOCD Project Manager.

Impacted soils above the NMOCD standard have been found to be shallower than 10 feet bgs. However, should areas where vertical hydrocarbon impacted soils extend below 10 feet bgs be determined based on analytical results commensurate with excavation activities, Plains recommends that the approved General Work Plan Closure Scenario 3 be applied. Under this scenario, an impermeable barrier consisting of an oversized 20-mil polyethylene liner will be permanently installed at a minimum depth of 10 feet to inhibit vertical migration of contaminants in soil left in

place below the cap. A 3-foot wide clean area buffer will be established around the impacted soil in the floor of the excavation. The buffer extent will be determined using a calibrated PID and confirmed by laboratory analysis of grab samples collected around the perimeter of the excavation. The liner shall be cushioned above and below with a 3 to 4-inch layer of sand or geotextile to protect it from puncture and tearing during the backfilling process. Installation of the 20-mil polyethylene liner at a minimum depth of 10 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminants in the soil.

The clean overburden and impacted soils will be blended and utilized as backfill. Soil samples will be collected at a rate of one sample per 500 cubic yards to verify constituent concentrations of BTEX are below NMOCD guidelines and TPH-GRO/DRO are below 1000 mg/kg as approved for backfill over liners. Once the excavation has been confirmed to meet NMOCD standards or the installation of the 20-mil poly liner is completed, backfilling of the excavation will be initiated with the blended soil. The backfilled excavation will be contoured to the original grade surrounding the site and reseeded with approved grass seed.

A request for closure will be submitted to the NMOCD, upon completion of backfilling activities. Plains is requesting approval from NMOCD to implement these proposed final remediation and site closure activities.

7.0 QA/QC PROCEDURES

Soil Sampling

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

The soil samples will be 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.

8.0 LIMITATIONS

SDG Environmental Services has prepared this Site Investigation Report and Site-Specific Remediation Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

SDG Environmental Services has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. SDG Environmental Services 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. SDG Environmental Services has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. SDG Environmental Services 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 Pipeline, 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 SDG Environmental Services and Plains Pipeline, L.P.

DISTRIBUTION

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TABLE 1

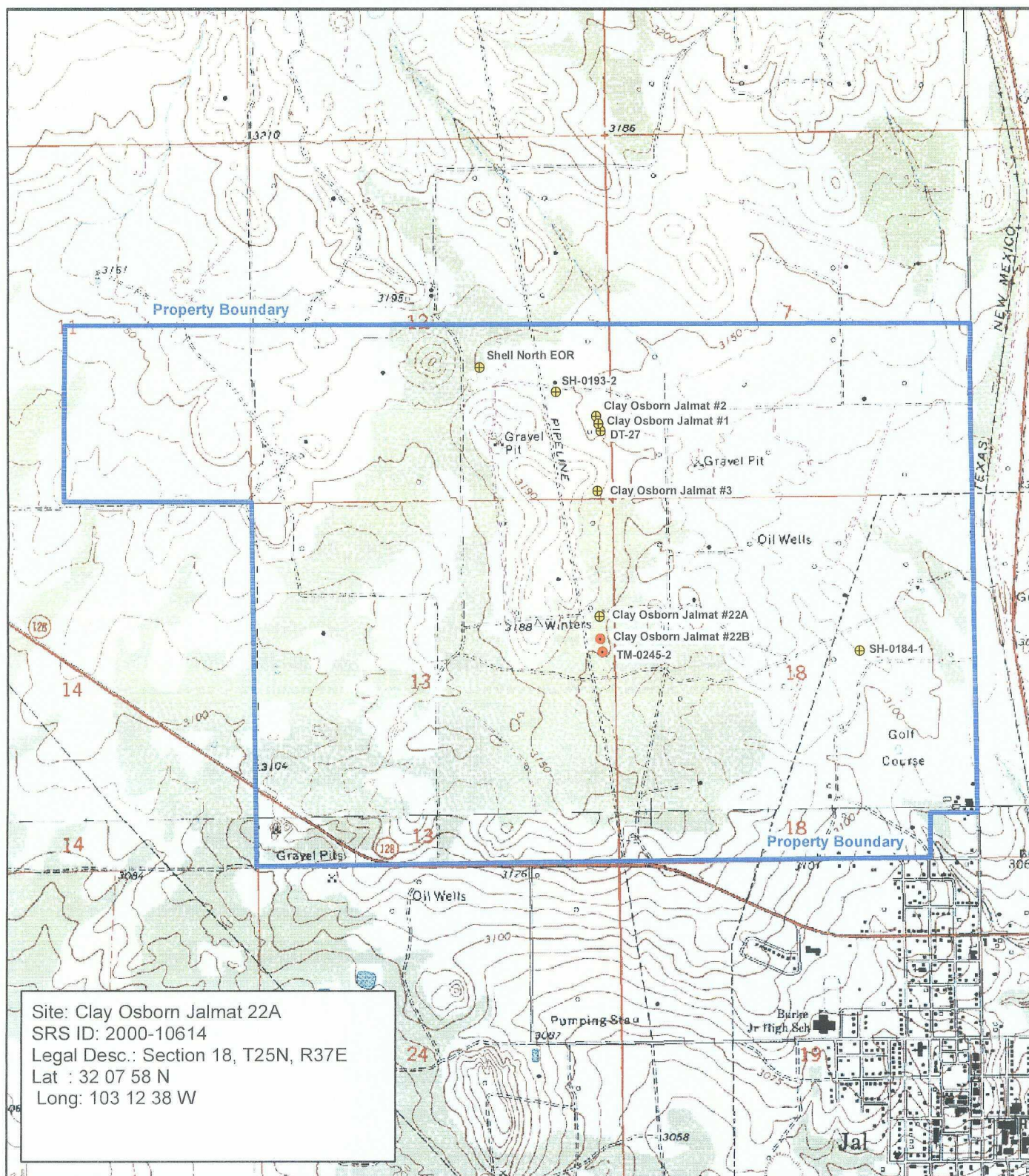
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

PLAINS PIPELINE, L. P.
 Jalmat 22A
 LEA COUNTY, NEW MEXICO
 PLAINS EMS NO: 2000-10614

SAMPLE LOCATION	DEPTH ft bgs	SAMPLE DATE	LABORATORY I.D.	METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M				TOTAL TPH
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M,P- XYLENES (mg/kg)	O-XYLENE (mg/kg)	C6-C12 (mg/kg)	C12-C28 (mg/kg)	C28-C35 (mg/kg)	
JM22A-SB1-2	2'	05/25/06	6E26006-01	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	401	5270	520	6190
JM22A-SB1-5	5'	05/25/06	6E26006-02	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	213	4470	484	5170
JM22A-SB1-10	10'	05/25/06	6E26006-03	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	32.4	<10	32.4
JM22A-SB1-15	15'	05/25/06	6E26006-04	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
JM22A-SB1-20	20'	05/25/06	6E26006-05	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
JM22A-SB1-25	25'	05/25/06	6E26006-06	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10

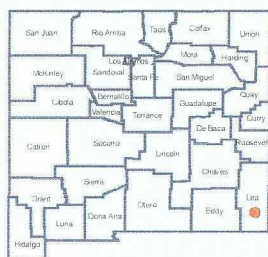
< indicates the constituent was not detected

J indicates estimated value (detected below method reporting limit)



Map Source: USGS, Jal NW New Mexico Topographic Map, 1980.

0 1,000 2,000
 Feet

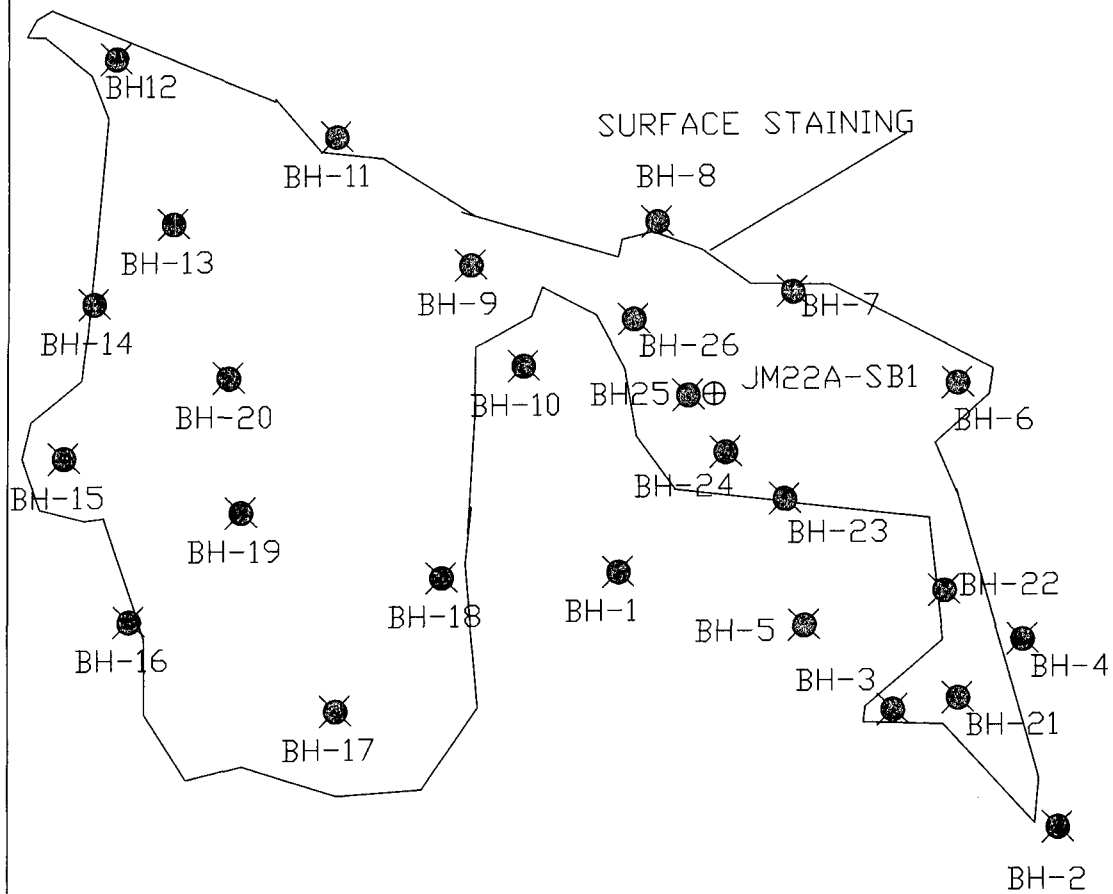


ENVIRONMENTAL SERVICES

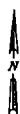
Clay Osborn Jalmat 22A
 SRS ID: 2000-10614
 Plains Pipeline L.P.
 Lea County, New Mexico

Figure 1: Site Location Map

PIPELINE



0 25 50
Feet



LEGEND:



Soil boring Locations



Historical Soil Boring Locations



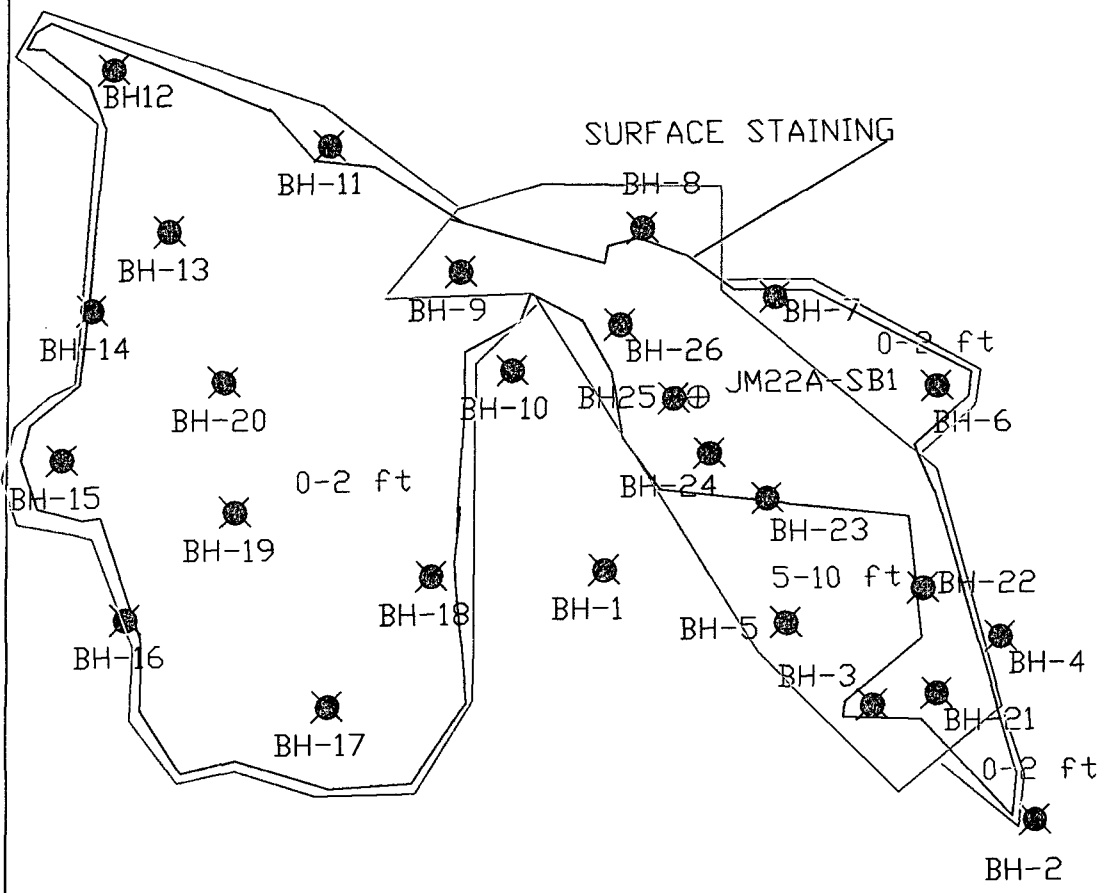
ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn Jalmat 22A
SRS No:2000-10614
Lea County, New Mexico

Figure 2: Soil Boring Locations

PIPELINE

SURFACE STAINING



0 25 50
Feet



LEGEND:



Soil boring Locations



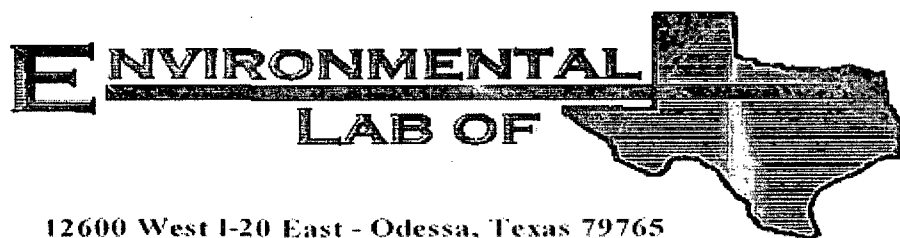
Historical Soil Boring Locations



Rocky Top Ranch
Clay Osborn Jalmat 22A
SRS No:2000-10614
Lea County, New Mexico

Figure 3: Estimated Excavation
and Depths

APPENDIX A
ENVIRONMENTAL LABORATORY OF TEXAS
ANALYTICAL RESULTS



Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat Clay Osborne #22A

Project Number: 2000-10614

Location: JM-22A

Lab Order Number: 6E26006

Report Date: 06/07/06

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

Project: Jalmat Clay Osborne #22A
Project Number: 2000-10614
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/06 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JM22A-SB1-2	6E26006-01	Soil	05/25/06 16:35	05/26/06 09:34
JM22A-SB1-5	6E26006-02	Soil	05/25/06 16:40	05/26/06 09:34
JM22A-SB1-10	6E26006-03	Soil	05/25/06 16:45	05/26/06 09:34
JM22A-SB1-15	6E26006-04	Soil	05/25/06 16:50	05/26/06 09:34
JM22A-SB1-20	6E26006-05	Soil	05/25/06 16:55	05/26/06 09:34
JM22A-SB1-25	6E26006-06	Soil	05/25/06 17:00	05/26/06 09:34

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

Project: Jalmat Clay Osborne #22A
Project Number: 2000-10614
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
06/07/06 12:59

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
JM22A-SB1-2 (6E26006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	401	10.0	mg/kg dry	1	EE63114	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	5270	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	520	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	6190	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
JM22A-SB1-5 (6E26006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	213	10.0	mg/kg dry	1	EE63114	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	4470	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	484	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	5170	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		140 %	70-130		"	"	"	"	S-04
JM22A-SB1-10 (6E26006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63114	05/31/06	06/06/06	EPA 8015M	

Environmental Lab of Texas

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

Page 2 of 10

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

Project: Jalmat Clay Osborne #22A
Project Number: 2000-10614
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/06 12:59

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
JM22A-SB1-10 (6E26006-03) Soil									
Carbon Ranges C12-C28	32.4	10.0	mg/kg dry	1	EE63114	05/31/06	06/06/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	32.4	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		93.2 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		81.0 %	70-130	"	"	"	"	"	
JM22A-SB1-15 (6E26006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		82.2 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.2 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63114	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		90.2 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.4 %	70-130	"	"	"	"	"	
JM22A-SB1-20 (6E26006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.5 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.5 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63114	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		95.2 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		93.4 %	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.

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

Project: Jalmat Clay Osborne #22A
Project Number: 2000-10614
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/06 12:59

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
JM22A-SB1-25 (6E26006-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60301	06/03/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a.a.a-Trifluorotoluene		82.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63114	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.0 %	70-130		"	"	"	"	

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Reported:
06/07/06 12:59

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
JM22A-SB1-2 (6E26006-01) Soil									
% Moisture	4.7	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
JM22A-SB1-5 (6E26006-02) Soil									
% Moisture	4.2	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
JM22A-SB1-10 (6E26006-03) Soil									
% Moisture	12.4	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
JM22A-SB1-15 (6E26006-04) Soil									
% Moisture	6.4	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
JM22A-SB1-20 (6E26006-05) Soil									
% Moisture	3.6	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
JM22A-SB1-25 (6E26006-06) Soil									
% Moisture	5.3	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	

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Reported:
06/07/06 12:59

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 EE63114 - Solvent Extraction (GC)

Blank (EE63114-BLK1)

Prepared: 05/31/06 Analyzed: 06/01/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	70-130			
Surrogate: 1-Chlorooctadecane	47.0		"	50.0		94.0	70-130			

LCS (EE63114-BS1)

Prepared: 05/31/06 Analyzed: 06/01/06

Carbon Ranges C6-C12	561	10.0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	564	10.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1130	10.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	46.3		"	50.0		92.6	70-130			

Calibration Check (EE63114-CCV1)

Prepared: 05/31/06 Analyzed: 06/01/06

Carbon Ranges C6-C12	288		mg/kg	250		115	80-120			
Carbon Ranges C12-C28	284		"	250		114	80-120			
Total Hydrocarbon nC6-nC35	572		"	500		114	80-120			
Surrogate: 1-Chlorooctane	62.5		"	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	61.9		"	50.0		124	70-130			

Matrix Spike (EE63114-MS1)

Source: 6E26006-03

Prepared: 05/31/06 Analyzed: 06/01/06

Carbon Ranges C6-C12	589	10.0	mg/kg dry	571	ND	103	75-125			
Carbon Ranges C12-C28	598	10.0	"	571	32.4	99.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1190	10.0	"	1140	32.4	102	75-125			
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	45.7		"	50.0		91.4	70-130			

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Reported:
06/07/06 12:59

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 EE63114 - Solvent Extraction (GC)

Matrix Spike Dup (EE63114-MSD1)		Source: 6E26006-03		Prepared: 05/31/06		Analyzed: 06/01/06				
Carbon Ranges C6-C12	579	10.0	mg/kg dry	571	ND	101	75-125	1.71	20	
Carbon Ranges C12-C28	589	10.0	"	571	32.4	97.5	75-125	1.52	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1170	10.0	"	1140	32.4	99.8	75-125	1.69	20	
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	44.7		"	50.0		89.4	70-130			

Batch EF60301 - EPA 5030C (GC)

Blank (EF60301-BLK1)		Prepared: 06/03/06		Analyzed: 06/04/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Nylene (p/m)	ND	0.0250	"							
Nylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

LCS (EF60301-BS1)		Prepared: 06/03/06		Analyzed: 06/04/06						
Benzene	1.04	0.0250	mg/kg wet	1.25		83.2	80-120			
Toluene	1.03	0.0250	"	1.25		82.4	80-120			
Ethylbenzene	1.13	0.0250	"	1.25		90.4	80-120			
Nylene (p/m)	2.41	0.0250	"	2.50		96.4	80-120			
Nylene (o)	1.18	0.0250	"	1.25		94.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/kg	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.7		"	40.0		112	80-120			

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06/07/06 12:59

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 EF60301 - EPA 5030C (GC)

Calibration Check (EF60301-CCV1)

Prepared: 06/03/06 Analyzed: 06/05/06

Benzene	40.3		ug/kg	50.0		80.6	80-120			
Toluene	40.3		"	50.0		80.6	80-120			
Ethylbenzene	42.0		"	50.0		84.0	80-120			
Xylene (p/m)	85.4		"	100		85.4	80-120			
Xylene (o)	43.8		"	50.0		87.6	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	37.2		"	40.0		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	45.3		"	40.0		113	80-120			

Matrix Spike (EF60301-MS1)

Source: 6E26005-05

Prepared: 06/03/06 Analyzed: 06/05/06

Benzene	1.02	0.0250	mg/kg dry	1.26	ND	81.0	80-120			
Toluene	1.01	0.0250	"	1.26	ND	80.2	80-120			
Ethylbenzene	1.03	0.0250	"	1.26	ND	81.7	80-120			
Xylene (p/m)	2.28	0.0250	"	2.52	ND	90.5	80-120			
Xylene (o)	1.11	0.0250	"	1.26	ND	88.1	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	36.7		ug/kg	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

Matrix Spike Dup (EF60301-MSD1)

Source: 6E26005-05

Prepared: 06/03/06 Analyzed: 06/05/06

Benzene	1.02	0.0250	mg/kg dry	1.26	ND	81.0	80-120	0.00	20	
Toluene	1.02	0.0250	"	1.26	ND	81.0	80-120	0.993	20	
Ethylbenzene	1.02	0.0250	"	1.26	ND	81.0	80-120	0.860	20	
Xylene (p/m)	2.24	0.0250	"	2.52	ND	88.9	80-120	1.78	20	
Xylene (o)	1.08	0.0250	"	1.26	ND	85.7	80-120	2.76	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	38.0		ug/kg	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

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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
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Batch EE62901 - General Preparation (Prep)

Blank (EE62901-BLK1) Prepared: 05/26/06 Analyzed: 05/30/06

% Moisture ND 0.1 %

Blank (EE62901-BLK2) Prepared: 05/26/06 Analyzed: 05/30/06

% Moisture ND 0.1 %

Duplicate (EE62901-DUP1) Source: 6E26001-01 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 79.6 % 79.2 0.504 20

Duplicate (EE62901-DUP2) Source: 6E26001-21 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 99.5 % 99.4 0.101 20

Duplicate (EE62901-DUP3) Source: 6E26001-41 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 99.1 % 99.1 0.00 20

Duplicate (EE62901-DUP4) Source: 6E26001-61 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 75.2 % 76.2 1.32 20

Duplicate (EE62901-DUP5) Source: 6E26003-07 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 98.0 % 98.3 0.306 20

Duplicate (EE62901-DUP6) Source: 6E26004-07 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 97.9 % 96.7 1.23 20

Duplicate (EE62901-DUP7) Source: 6E26005-06 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 99.3 % 99.5 0.201 20

Duplicate (EE62901-DUP8) Source: 6E26008-04 Prepared: 05/26/06 Analyzed: 05/27/06

% Solids 98.6 % 91.7 7.25 20

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

6/7/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
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Project Manager:

Kenneth Cody / C. Reynolds

Company Name

SPCs Environmental Services / Plains

Company Address:

6611 Victoria

City/State/Zip:

Houston TX 77063

Telephone No:

713-806-7948

Fax No:

Sampler Signature:

Phil Reid

Email:

Chain of Custody Record and Analysis Request
Jalmar Clay Osborne # 22A

Project Name:

Plains Refinery

Project #:

2000-1064

Project Loc:

TN-22A

PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TPH 418.1	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	BTEX (002, 003 or BTEX 826)	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Special Instructions:

Sample Containers Intact? Y
Labels on container? Y
Custody Seals: Containers Cooler
Temperature Upon Receipt 15.5 C

Received by:

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Relinquished by:

Phil Reid

Relinquished by:

Received by ELOT:

05-26-06

0934

05-26-06

0934

05-26-06

0934

05-26-06

0934

05-26-06

0934

05-26-06

0934

05-26-06

0934

05-26-06

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L

Date/Time: 05-26-06 @ 0934

Order #: 6E26006

Initials: JMM

Sample Receipt Checklist

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

Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken: _____

APPENDIX B
SOIL BORING LOGS



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER JM22A-SB1

PROJECT 2000-10614 LOCATION Jal, N.M.

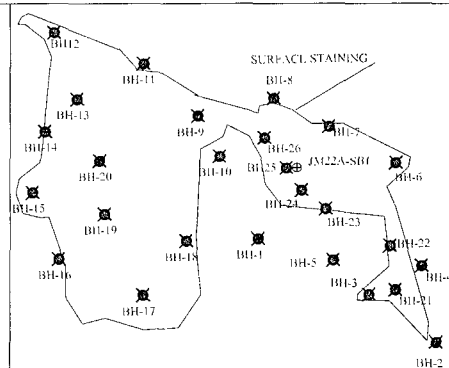
TOTAL BORING DEPTH 25' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/25/06

TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



INTERVAL	RECOVERY %	LOG	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
0						
2	100		39.3	JM22A-SB1-2	Sand, tan, fine grained, well sorted, rounded, some asphaltic material.	Mod. odor Stained
4	100		29.4	JM22A-SB1-5	Sand, red, fine grained, well sorted, rounded, dry.	Mod. odor Slt Staining
6						
8						
10	100		2.3	JM22A-SB1-10	Sandy clay, red, dense, dry.	Faint odor No Staining
12						
14	100		0.0	JM22A-SB1-15	Sand, red, fine grained, well sorted, rounded, slightly damp.	No odor No Staining
16						
18						
20	100		0.0	JM22A-SB1-20	Sand, red to tan, fine grained, well sorted, rounded, dry, with some gravel.	No odor No Staining
22						
24	100		0.0	JM22A-SB1-25	Sand, tan, fine grained, well sorted, rounded, dry, with some caliche.	No odor No Staining
26					TD= 25'	
28						
30						
32						
34						
36						
38						
40						

APPENDIX C
EPI July/ August 2000 Soil Sample Results

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (W.T. BGS ¹)	SAMPLE ID#	Date	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
1	2	ECO22AGP1-02	7/27/2000	Sand	N/A	10	10	20,000	0.515	0.100	0.115	0.100	0.100	0.100
	5	ECO22AGP1-05	7/27/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP1-10	7/27/2000	Sand	N/A	10	10	20,000	0.521	0.100	0.121	0.100	0.100	0.100
	15	ECO22AGP1-15	7/27/2000	Sand	N/A	10	10	20,000	0.553	0.100	0.153	0.100	0.100	0.100
2	2	ECO22AGP2-02	7/27/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP2-05	7/27/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP2-10	7/27/2000	Sand	N/A	10	10	20,000	0.530	0.100	0.130	0.100	0.100	0.100
	15	ECO22AGP2-15	7/27/2000	Sand	N/A	10	10	20,000	0.543	0.100	0.143	0.100	0.100	0.100
3	2	ECO22AGP3-02	7/27/2000	Sand	N/A	50	2493	2543,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP3-05	7/27/2000	Sand	N/A	50	957	1007,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP3-10	7/27/2000	Sand	N/A	10	57	67,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP3-15	7/27/2000	Sand	N/A	10	74	84,000	0.500	0.100	0.100	0.100	0.100	0.100
4	2	ECO22AGP4-02	7/28/2000	Sand	N/A	10	151	161,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP4-05	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP4-10	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP4-15	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
5	2	ECO22AGP5-02	7/28/2000	Sand	N/A	10	1520	1530,000	0.579	0.100	0.179	0.100	0.100	0.100
	5	ECO22AGP5-05	7/28/2000	Sand	N/A	10	114	124,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP5-10	7/28/2000	Sand	N/A	10	63	73,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP5-15	7/28/2000	Sand	N/A	10	11	21,000	0.500	0.100	0.100	0.100	0.100	0.100
6	2	ECO22AGP6-02	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP6-05	7/28/2000	Sand	N/A	10	10	20,000	0.508	0.100	0.100	0.108	0.100	0.100
	10	ECO22AGP6-10	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP6-15	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
7	2	ECO22AGP7-02	7/28/2000	Sand	N/A	10	10	20,000	0.514	0.100	0.111	0.103	0.100	0.100
	5	ECO22AGP7-05	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP7-10	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP7-15	7/28/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
8	2	ECO22AGP8-02	7/28/2000	Sand	N/A	10	976	986,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP8-05	7/28/2000	Sand	N/A	50	4898	4948,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP8-10	7/28/2000	Sand	N/A	10	102	112,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP8-15	7/28/2000	Sand	N/A	10	451	461,000	0.500	0.100	0.100	0.100	0.100	0.100

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₈⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p-Nitroene mg/Kg
9	2	ECO22AGP9-02	7/28/2000	Sand	N/A	50	3970	4020.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP9-05	7/28/2000	Sand	N/A	10	170	180.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP9-10	7/28/2000	Sand	N/A	10	56	66.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP9-15	7/28/2000	Sand	N/A	10	70	80.000	0.502	0.100	0.100	0.102	0.100
10	2	ECO22AGP10-02	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP10-05	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP10-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP10-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
11	2	ECO22AGP11-02	7/31/2000	Sand	N/A	10	19	29.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP11-05	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP11-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP11-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
12	2	ECO22AGP12-02	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP12-05	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP12-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP12-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
13	2	ECO22AGP13-02	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP13-05	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP13-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP13-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
14	2	ECO22AGP14-02	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP14-05	7/31/2000	Sand	N/A	10	21	31.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP14-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP14-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
15	2	ECO22AGP15-02	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP15-05	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP15-10	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP15-15	7/31/2000	Sand	N/A	10	10	20.000	0.500	0.100	0.100	0.100	0.100
16	2	ECO22AGP16-02	8/1/2000	Sand	N/A	10	484	494.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP16-05	8/1/2000	Sand	N/A	10	85	95.000	0.586	0.100	0.117	0.153	0.116
	10	ECO22AGP16-10	8/1/2000	Sand	N/A	10	24	34.000	0.500	0.100	0.100	0.100	0.100
	15	ECO22AGP16-15	8/1/2000	Sand	N/A	10	24	34.000	0.500	0.100	0.100	0.100	0.100

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₄⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT, BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
17	2	ECO22AGP17-02	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP17-05	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP17-10	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
18	15	ECO22AGP17-15	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO22AGP18-02	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP18-05	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
19	10	ECO22AGP18-10	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP18-15	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO22AGP19-02	8/1/2000	Sand	N/A	50	50	100,000	0.500	0.100	0.100	0.100	0.100	0.100
20	5	ECO22AGP19-05	8/1/2000	Sand	N/A	10	14	24,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP19-10	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP19-15	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
21	2	ECO22AGP20-02	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP20-05	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP20-10	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
22	15	ECO22AGP20-15	8/1/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO22AGP21-02	8/2/2000	Sand	N/A	10	98	108,000	0.588	0.100	0.188	0.100	0.100	0.100
	5	ECO22AGP21-05	8/2/2000	Sand	N/A	50	5240	5290,000	0.500	0.100	0.100	0.100	0.100	0.100
23	10	ECO22AGP21-10	8/2/2000	Sand	N/A	10	87	97,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP21-15	8/2/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO22AGP22-02	8/2/2000	Sand	N/A	50	4098	4148,000	0.500	0.100	0.100	0.100	0.100	0.100
24	5	ECO22AGP22-05	8/2/2000	Sand	N/A	10	357	367,000	0.500	0.100	0.160	0.100	0.100	0.100
	10	ECO22AGP22-10	8/2/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP22-15	8/2/2000	Sand	N/A	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
25	2	ECO22AGP23-02	8/2/2000	Sand	N/A	92	4052	4144,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP23-05	8/2/2000	Sand	N/A	161	2040	2201,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP23-10	8/2/2000	Sand	N/A	10	30	40,000	0.500	0.100	0.100	0.100	0.100	0.100
26	15	ECO22AGP23-15	8/2/2000	Sand	N/A	10	168	178,000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO22AGP24-02	8/3/2000	Sand	N/A	74	7823	7897,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP24-05	8/3/2000	Sand	N/A	135	2678	2813,000	0.500	0.100	0.100	0.100	0.100	0.100
27	10	ECO22AGP24-10	8/3/2000	Sand	N/A	10	202	212,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP24-15	8/3/2000	Sand	N/A	10	109	119,000	0.500	0.100	0.100	0.100	0.100	0.100

¹bgs - below ground surface²VOC - Volatile Organic Contaminants/Constituents³GRO - Gasoline Range Organics C₆-C₁₀⁴DRO - Diesel Range Organics C₁₀-C₂₈⁵TPH - Total Petroleum Hydrocarbon = GRO + DRO⁶bold values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p- Xylene mg/Kg
25	2	ECO22AGP25-02	8/3/2000	Sand	N/A	50	3980	4030.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP25-05	8/3/2000	Sand	N/A	120	2621	2741.000	0.500	0.100	0.100	0.100	0.100
	10	ECO22AGP25-10	8/3/2000	Sand	N/A	331	4040	4371.000	0.599	0.100	0.100	0.100	0.143
	15	ECO22AGP25-15	8/3/2000	Sand	N/A	10	208	218.000	0.500	0.100	0.100	0.100	0.100
26	2	ECO22AGP26-02	8/3/2000	Sand	N/A	214	6346	6560.000	0.500	0.100	0.100	0.100	0.100
	5	ECO22AGP26-05	8/3/2000	Sand	N/A	543	2947	3490.000	8.155	0.100	0.645	1.040	3.480
	10	ECO22AGP26-10	8/3/2000	Sand	N/A	15	348	363.000	4.201	0.100	0.934	0.505	1.820
	15	ECO22AGP26-15	8/3/2000	Sand	N/A	10	28	38.000	0.500	0.100	0.100	0.100	0.100

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₈⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.