1R – 466

WORK PLAN

DATE:
AUGUST 2006

IR-466
Work Plan
August 2006

August 11, 2006

PLAINS MARKETING, L.P.

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 SUMMARY
and
SITE-SPECIFIC REMEDIATION WORK PLAN

Clay Osborn Rocky Top Ranch
Jalmat #2 Release Site

SW1/4 SW1/4 UL-M, Section 7, Township 25 North, Range 37 East
Latitude 32° 8' 27" North, Longitude 103° 12' 38" West
Lea County, New Mexico

PLAINS PIPELINE, L.P. SRS ID: 2000-10607

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

August 2006

Kenneth Cody
SDG Environmental Services

Table of Contents

Figures

Appendices

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 #2 release site located on the Clay Osborn Rocky Top Ranch in Lea County, New Mexico. Plains is the owner/operator of several pipelines present on the Clay Osborn Rocky Top Ranch located near Jal, New Mexico.

This site is located in Unit Letter-M, in the SW¼ SW ¼ of Section 7, 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° 8′ 27″ 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 35,000 ft^2. 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 contaminates 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.

Soil analytical data from a site investigation conducted by EPI in June and July 2000 are presented in a Site Investigation Report dated December 2001 was used in development of this Site Specific Remediation Work Plan.

2.0 SUMMARY OF SITE ACTIVITIES

On 27 June 2000 through 13 July 2000, initial subsurface horizontal and vertical delineation was conducted by EPI with the installation of twenty seven (27) soil borings installed at the site. The twenty seven soil borings were installed to a depth of 15 feet bgs and are identified in Figure 2 as BH-1 through BH-27. 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. Laboratory results indicated that TPH-GRO/DRO concentrations did not exceed 100 mg/kg TPH in the one hundred eight (108) soil samples. A table of the analytical results from the December 2001 investigation report is presented in Appendix A.

3.0 NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

The depth to water at the site is estimated to be approximately 55 feet bgs based on a monitor wells located at a nearby site. Based on the analytical results of soil samples, the hydrocarbon impacted soil is superficial (less than 2 feet bgs), therefore, 50 feet of non-impacted soil remains between the last known impacted soil depth and groundwater. The resulting Depth to Groundwater Ranking Score is 10.

EPI reported an inactive windmill well bore located 458 ft to the northeast which had a transverse gradient to the site. The resulting Wellhead Protection Area Score is 10.

No surface water bodies are located 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 to19, which establish the following remediation levels:

Benzene:	10 mg/kg
BTEX:	50 mg/kg
TPH:	100 mg/kg

4.0 DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The area is estimated to be approximately 35,000 square feet. The vertical extent of soils is limited to the surface as evident by the presence of small, thin, broken pieces of asphaltine crust. No subsurface impacts were encountered in the June/July 2000 subsurface sampling. No visual observations of free phase hydrocarbons were reported during the installation of the soil borings. Based on the results of the soil samples collected and analyzed, the horizontal impact of shallow soils is limited to the visual surface impacts.

5.0 DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

No saturated conditions were reported in any of the borings. Soil boring BH-1 through BH-27 were installed to 15 feet bgs and no groundwater was reported. The depth of hydrocarbon impacted soils is limited to less than 2 feet bgs. Therefore, there is no indication that the hydrocarbons from the historical release have impacted the saturated zone.

6.0 RECOMMENDATIONS FOR REMEDIATION

Based on the results of the soil boring investigation conducted at the site, the hydrocarbon impacted soils are present to depths of less than 2 feet bgs. The horizontal impacts have been fully defined. The historical data and visual observations indicate the surface area has restored itself naturally, the surface expression of the release is difficult to identify and there is no threat to groundwater.

The area with observed ashaltines and where laboratory analytical results indicate that surface impacts do not extend to below 2 feet bgs 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.

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

7.0 LIMITATIONS

SDG Environmental Services has prepared this Site Investigation Summary and 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.

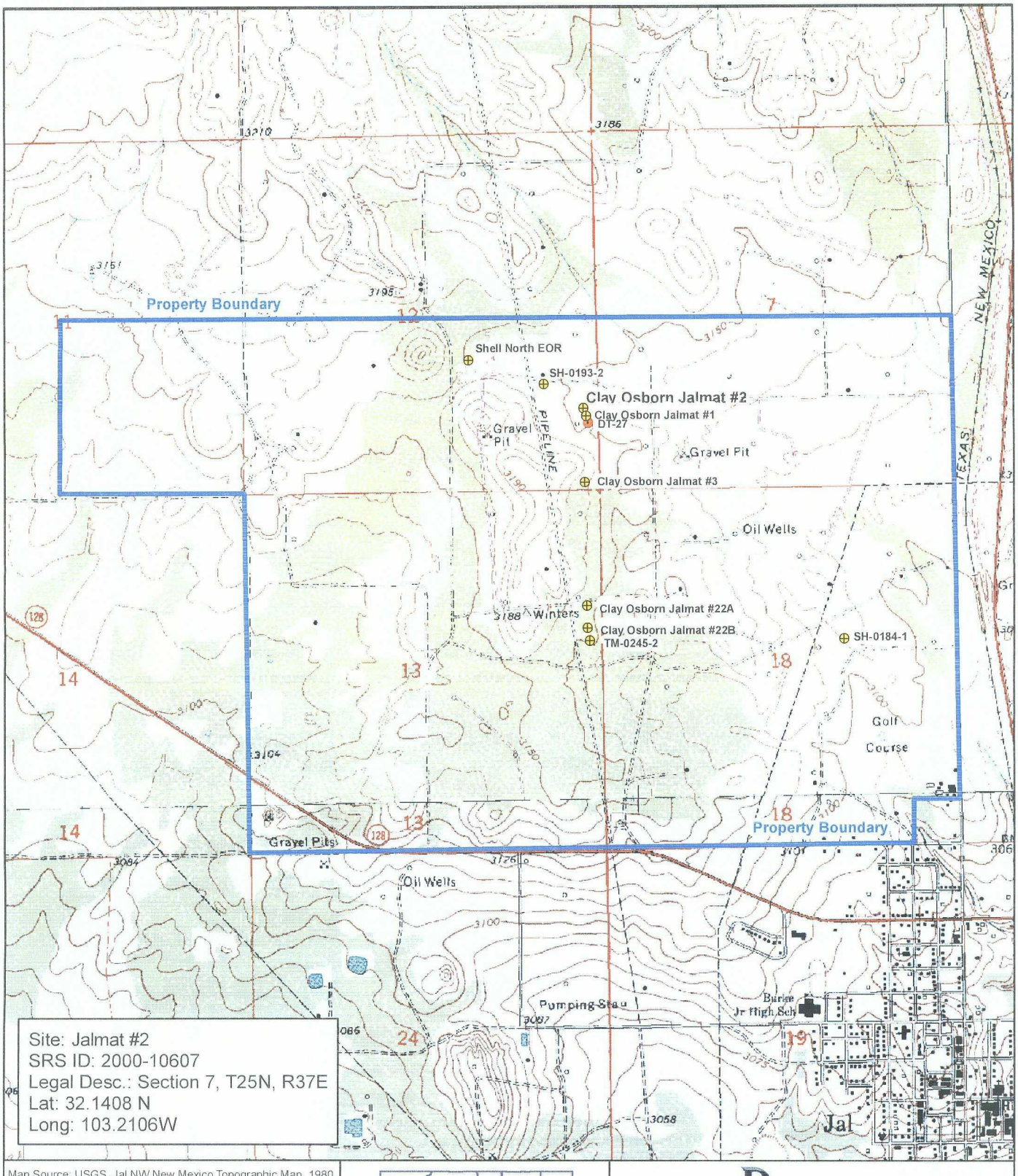
DISTRIBUTION

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

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

Copy 3:
Mr. Ben Stone
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 88240
ben.stone@state.nm.us

Copy 4:
Kenneth Cody
SDG Environmental Services
6611 Vialinda, Suite 204
Houston, Texas 77083
kcody@sdgenv.com



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

0 1,000 2,000

Feet

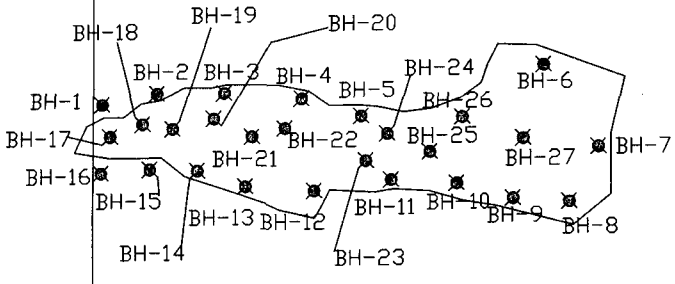
N

GLACIER FOX GEO INC

SDG ENVIRONMENTAL SERVICES

Jalmat #2
SRS ID: 2000-10607
Plains Marketing L.P.
Lea County, New Mexico

Figure 1: Site Location Map



Jalmat 2

PIPELINE

0 50 100
Feet

N

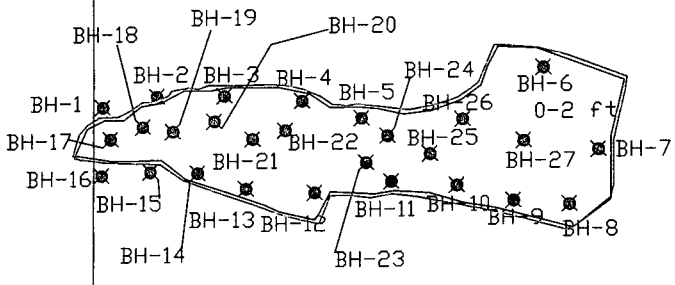
LEGEND:

Historical Soil Boring Locations

SPG ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn Jalmat #2
SRS No:2000-10607
Lea County, New Mexico

Figure 2: Soil Boring Locations



Jalmat 2

PIPELINE

0 50 100
Feet

N

LEGEND:

Historical Soil Boring Locations

Excavation Boundary Surface to 2 feet bgs

SDG ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn Jalmat #2
SRS No:2000-10607
Lea County, New Mexico

Figure 3: Estimated Excavation and Depths

APPENDIX A

EPI JULY 2000 SAMPLE RESULTS

E.O.T.T. Energy Pipeline Jalmat 2

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	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
1	2	EJM2GP1-02	6/27/2000	Sand	0.0	10	10	*20*	0.569	0.100	0.100	0.100	0.137	0.132
	5	EJM2GP1-05	6/27/2000	Sand	0.0	10	10	*20*	0.521	0.100	0.121	0.100	0.100	0.100
	10	EJM2GP1-10	6/27/2000	Sand	0.0	10	10	*20*	0.530	0.100	0.100	0.100	0.130	0.100
	15	EJM2GP1-15	6/27/2000	Sand	0.0	10	10	*20*	0.732	0.100	0.207	0.120	0.188	0.117
2	2	EJM2GP2-02	6/27/2000	Sand	0.0	10	10	*20*	0.524	0.100	0.100	0.100	0.124	0.100
	5	EJM2GP2-05	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP2-10	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP2-15	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
3	2	EJM2GP3-02	6/27/2000	Sand	0.0	10	10	*20*	0.579	0.100	0.121	0.100	0.140	0.118
	5	EJM2GP3-05	6/27/2000	Sand	0.0	10	10	*20*	0.525	0.100	0.125	0.100	0.100	0.100
	10	EJM2GP3-10	6/27/2000	Sand	0.0	10	10	*20*	0.528	0.100	0.100	0.100	0.128	0.100
	15	EJM2GP3-15	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
4	2	EJM2GP4-02	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP4-05	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP4-10	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP4-15	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
5	2	EJM2GP5-02	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP5-05	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP5-10	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP5-15	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
6	2	EJM2GP6-02	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP6-05	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP6-10	6/27/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP6-15	6/27/2000	Sand	0.0	10	10	*20*	0.554	0.100	0.154	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/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 Jalmat 2

Borehole	Sampling Interval (FT. 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	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
7	2	**EJM2GP7-02**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP7-05**	**6/28/2000**	Sand	0.0	10	10	*20*	0.769	0.100	0.100	0.110	0.359	0.100
	10	**EJM2GP7-10**	**6/28/2000**	Sand	0.0	10	10	*20*	0.572	0.100	0.100	0.117	0.155	0.100
	15	**EJM2GP7-15**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
8	2	EJM2GP8-02	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP8-05	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP8-10	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP8-15	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
9	2	**EJM2GP9-02**	**6/28/2000**	Sand	0.1	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP9-05**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	**EJM2GP9-10**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP9-15**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
10	2	EJM2GP10-02	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP10-05	6/28/2000	Sand	0.0	10	10	*20*	0.612	0.100	0.100	0.146	0.166	0.100
	10	EJM2GP10-10	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP10-15	6/28/2000	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
11	2	**EJM2GP11-02**	**6/28/2000**	Sand	0.0	10	10	*20*	0.621	0.100	0.221	0.100	0.100	0.100
	5	**EJM2GP11-05**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	*0.100*	0.100	0.100	0.100	0.100
	10	**EJM2GP11-10**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP11-15**	**6/28/2000**	Sand	0.0	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
12	2	EJM2GP12-02	6/28/2000	Sand	0.0	10	10	*20*	0.504	0.100	0.104	0.100	0.100	0.100
	5	EJM2GP12-05	6/28/2000	Sand	0.0	10	10	*20*	0.540	0.100	0.140	0.100	0.100	0.100
	10	EJM2GP12-10	6/28/2000	Sand	0.9	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP12-15	6/28/2000	Sand	0.8	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/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 Jalmat 2

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	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
13	2	**EJM2GP13-02**	**7/6/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP13-05**	**7/6/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	10	**EJM2GP13-10**	**7/6/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP13-15**	**7/6/2000**	**Sand**	0.00	10	10	*20*	0.505	0.100	0.105	0.100	0.100	0.100
14	2	EJM2GP14-02	7/6/2000	Sand	0.00	10	10	*20*	0.544	0.100	0.144	0.100	0.100	0.100
	5	EJM2GP14-05	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP14-10	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP14-15	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
15	2	**EJM2GP15-02**	**7/6/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	**0.100**	**0.100**	**0.100**	**0.100**
	5	**EJM2GP15-05**	**7/6/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	0.100	**0.100**	**0.100**	**0.100**
	10	**EJM2GP15-10**	**7/6/2000**	**Sand**	0.00	10	10	*20*	0.648	0.100	**0.163**	**0.100**	**0.168**	**0.117**
	15	**EJM2GP15-15**	**7/6/2000**	**Sand**	0.00	10	10	*20*	0.569	0.100	**0.169**	**0.100**	**0.100**	**0.100**
16	2	EJM2GP16-02	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP16-05	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP16-10	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP16-15	7/6/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
17	2	**EJM2GP17-02**	**7/12/2000**	**Sand**	0.00	10	10	*20*	0.565	0.100	**0.156**	**0.109**	**0.100**	**0.100**
	5	**EJM2GP17-05**	**7/12/2000**	**Sand**	0.00	10	10	*20*	0.513	0.100	0.113	0.100	**0.100**	**0.100**
	10	**EJM2GP17-10**	**7/12/2000**	**Sand**	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	**0.100**	0.100
	15	**EJM2GP17-15**	**7/12/2000**	**Sand**	0.00	10	10	*20*	0.501	0.100	**0.101**	0.100	**0.100**	0.100
18	2	EJM2GP18-02	7/12/2000	Sand	0.00	10	10	*20*	0.556	0.100	0.156	0.100	0.100	0.100
	5	EJM2GP18-05	7/12/2000	Sand	0.00	10	10	*20*	0.641	0.162	0.135	0.107	0.128	0.109
	10	EJM2GP18-10	7/12/2000	Sand	0.00	10	10	*20*	***0.500***	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP18-15	7/12/2000	Sand	0.00	10	10	*20*	0.745	0.100	0.100	0.100	0.345	0.100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/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 Jalmat 2

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	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
19	2	**EJM2GP19-02**	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP19-05**	7/12/2000	Sand	1.1	10	10	*20*	0.608	0.100	0.208	0.100	0.100	0.100
	10	**EJM2GP19-10**	7/12/2000	Sand	1.6	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP19-15**	7/12/2000	Sand	3.2	10	10	*20*	0.518	0.100	0.118	0.100	0.100	0.100
20	2	EJM2GP20-02	7/12/2000	Sand	0.7	10	19	*29*	0.587	0.100	0.132	0.100	0.155	0.100
	5	EJM2GP20-05	7/12/2000	Sand	3	10	10	*20*	0.545	0.100	0.145	0.100	0.100	0.100
	10	EJM2GP20-10	7/12/2000	Sand	0.4	10	10	*20*	0.513	0.100	0.113	0.100	0.100	0.100
	15	EJM2GP20-15	7/12/2000	Sand	1.8	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
21	2	**EJM2GP21-02**	7/12/2000	Sand	1.2	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP21-05**	7/12/2000	Sand	2.1	10	10	*20*	0.538	0.100	0.138	0.100	0.100	0.100
	10	**EJM2GP21-10**	7/12/2000	Sand	1.9	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP21-15**	7/12/2000	Sand	1.1	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
22	2	EJM2GP22-02	7/12/2000	Sand	1	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP22-05	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP22-10	7/12/2000	Sand	0.00	10	10	*20*	0.507	0.107	0.100	0.100	0.100	0.100
	15	EJM2GP22-15	7/12/2000	Sand	0.00	10	10	*20*	0.510	0.110	0.100	0.100	0.100	0.100
23	2	**EJM2GP23-02**	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	**EJM2GP23-05**	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	**EJM2GP23-10**	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	**EJM2GP23-15**	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
24	2	EJM2GP24-02	7/12/2000	Sand	0.00	10	10	*20*	0.569	0.100	0.169	0.100	0.100	0.100
	5	EJM2GP24-05	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP24-10	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP24-15	7/12/2000	Sand	0.00	10	10	*20*	0.505	0.105	0.100	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/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 Jalmat 2

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	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
25	2	EJM2GP25-02	7/12/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP25-05	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP25-10	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP25-15	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
26	2	EJM2GP26-02	7/13/2000	Sand	0.00	10	69	79	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP26-05	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP26-10	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP26-15	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
27	2	EJM2GP27-02	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	EJM2GP27-05	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	EJM2GP27-10	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	EJM2GP27-15	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	20	EJM2GP27-20	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100
	25	EJM2GP27-25	7/13/2000	Sand	0.00	10	10	*20*	*0.500*	0.100	0.100	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/A Not Analyzed

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