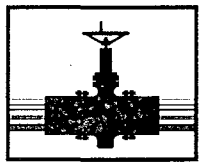
1R – 472

WORK PLAN

DATE:
AUGUST 2006

IR-472
Work Plan
August 2006



PLAINS
MARKETING, L.P.

August 11, 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
Rocky Top 2 (SH-0184-1) Release Site

SW1/4 SW1/4 UL-J, Section 18, Township 25 North, Range 37 East
Latitude 32° 7′ 53″ North, Longitude 103° 11′ 54″ West
Lea County, New Mexico

PLAINS PIPELINE, L.P. SRS ID: ROCKY TOP 2

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

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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 SH-0184-1 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-J, 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′ 54″ North, and Longitude 103° 11′ 54″ West. The site is characterized by several right-of-ways for pipelines in a pasture.

The SH-0184-1 release area is approximately 100 ft^2 and consists of what appears to be tank bottoms and sediment lying on the surface. The source of the apparent tank bottoms is likely from a former crude oil storage tank operations which appeared to be located nearby. The former tank operations were not associated with the Plains pipeline. Approximately 90 feet to the east of the SH-0184-1 release area is a circular mound of built-up caliche based material characteristic of the footprint of a former tank battery. A small area (2'x5') of tank bottoms and sediment lies approximately 60 feet to the east. An above ground valve stand probably associated with the former tank is located approximately 30 feet to the north-east. These site features are shown in Figure 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.

The visual observations, field photoionization detector (PID) measurement, and soil analytical data from a site investigation conducted in May 2006 was used in development of this Site Specific Remediation Work Plan.

2.0 SUMMARY OF SITE ACTIVITIES

On 29 June 2005, one surface soil sample was collected from the observable surface staining by others at the site identified as SH-0184-1. The sample was identified as OTS 15 and was 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 exceed 100 mg/kg TPH in the soil samples.

On 22 May 2006, SDG conducted an additional soil investigation in an effort to determine the vertical and horizontal extent of impacts at the SH-0184-1 site. The SH-0184-1 site was identified as an area of tank bottoms and sediment lying on the ground surface. The tank bottoms covered an area approximately 10 feet in diameter.

Five soil borings were installed in the SH-0184-2 area and are identified in Figure 2 as SH1-SB1, SH1-SB2, SH1-SB3, SH1-SB4 and SH1-SB5. Soil Boring SH1-SB2 was installed to 25 feet bgs and no groundwater was encountered.

Soil borings were installed by Straub Corporation, Stanton, Texas utilizing an air rotary drill rig. Soil samples were typically collected at 2 ft, 5 ft, 10 ft, 15 ft, and 20 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 logs included in Appendix C.

3.0 NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

The depth to water at the site is estimated to be approximately 50 feet bgs based on a monitor wells located at a nearby site. Based on the analytical results of soil samples, the hydrocarbon impacted soil extends from the surface to 5 feet bgs, therefore, less than 50 feet of non-impacted soil remains between the last known impacted soil depth and groundwater. The resulting Depth to Groundwater Ranking Score is 20.

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.

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 >19, 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 estimated area of soils impacted above NMOCD Standards is shown in Figure 3. The area is estimated to be approximately 100 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 5 feet bgs.

On 22 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 B). No visual observations of free phase hydrocarbons were encountered during the installation of the soil borings. Soil boring logs are provided in Appendix C.

Soil Boring SH1-SB1 was installed at the southern extent of the visible tank bottoms and sediment. This location was provided as the location of a historical release. The soil boring was installed to 15 feet bgs and samples were collected at 2, 5, and 15, 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 at 2 feet bgs had an estimated concentration of 8.73 mg/Kg which is estimated because it is above the method detection limit but below the laboratory reporting limit. TPH was not detected above the laboratory detection limits in soil samples collected at 5 and 15 feet bgs.

Soil Boring SH1-SB2 was installed at the northern extent of the visible tank bottoms and sediment. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, and 15 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 the samples. Analytical results indicated that TPH concentrations were detected at the 2 feet bgs sample with a concentration of 28.0 mg/kg, however this concentration is below the NMOCD standard of 100 mg/kg. TPH concentrations were not detected above the laboratory method detection limits in any of the other two samples.

Soil Boring SH1-SB3 was installed at the eastern extent of the visible tank bottoms and sediment. The soil boring was installed to 15 feet bgs and samples were collected at 2, 5, and 15, 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 also indicated that TPH concentrations of GRO/DRO were not detected above the laboratory method detection limits in any of the samples.

Soil Boring SH1-SB4 was installed at the western extent of the visible tank bottoms and sediment, and to the immediate west of the pipeline. The soil boring was installed to 15 feet bgs and samples were collected at 2, 5, and 15 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 also indicated that TPH concentrations of GRO/DRO were not detected above the laboratory method detection limits in any of the samples.

Soil Boring SH1-SB5 was installed at the center of the visible tank bottoms and sediment. This location was selected because the results of August 2005 sampling indicated impacted soils above the NMOCD standard of 100 mg/kg at the surface. The purpose of soil boring SH1-SB5 was to verify the previous results and to obtain a vertical delineation of impacted soils at this location. SH1-SB5 was installed to 15 feet bgs and samples were collected at 2, 5, and 15 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 concentrations were above the NMOCD standard of 100 mg/kg at the 2 feet bgs with total TPH concentrations of 125 mg/kg. Analytical results indicated that TPH concentrations were not detected above the laboratory method detection limits at 5 and 15 feet bgs.

The extent of hydrocarbon impacted soils is limited to soils immediately beneath the tank bottoms. The horizontal and vertical extent of the impacted soils has been delineated. Hydrocarbon impacted soils above the NMOCD standards extend to depths of less than 5 feet bgs.

5.0 DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

No saturated conditions were observed in any of the borings. Soil boring SH1-SB2 was installed to 25 feet bgs and no groundwater was encountered. The depth of hydrocarbon impacted soils above 100 mg/kg TPH is limited to less than 5 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 horizontal and vertical soil boring investigation conducted at the site, it appears that hydrocarbon impacted soils are present to depths of less than 5 feet bgs. Given the NMOCD guideline cleanup standard of 100 mg/kg TPH, an estimated 19 cubic yards of tank bottoms and impacted soil will require excavation.

Because the impacts greater than 100 mg/kg TPH are limited in vertical extent (i.e. less than 5 feet in depth) 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.

- Removal of tank bottoms and excavation of impacted soils to 5 feet bgs or until site remediation standards are met.
- Collect and analyze soil samples from the walls and floor of the excavation to confirm that the remediation has met the site remediation standards.
- Relocation of the 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 the site guidelines.
- Backfill the excavation with native soils and restore the area to as close as possible to pre-spill conditions.

Once the excavation has been confirmed to meet NMOCD standards backfilling of the excavation will be initiated. 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

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 6:
Kenneth Cody
SDG Environmental Services
6611 Vialinda, Suite 204
Houston, Texas 77083
kcody@sdgenv.com

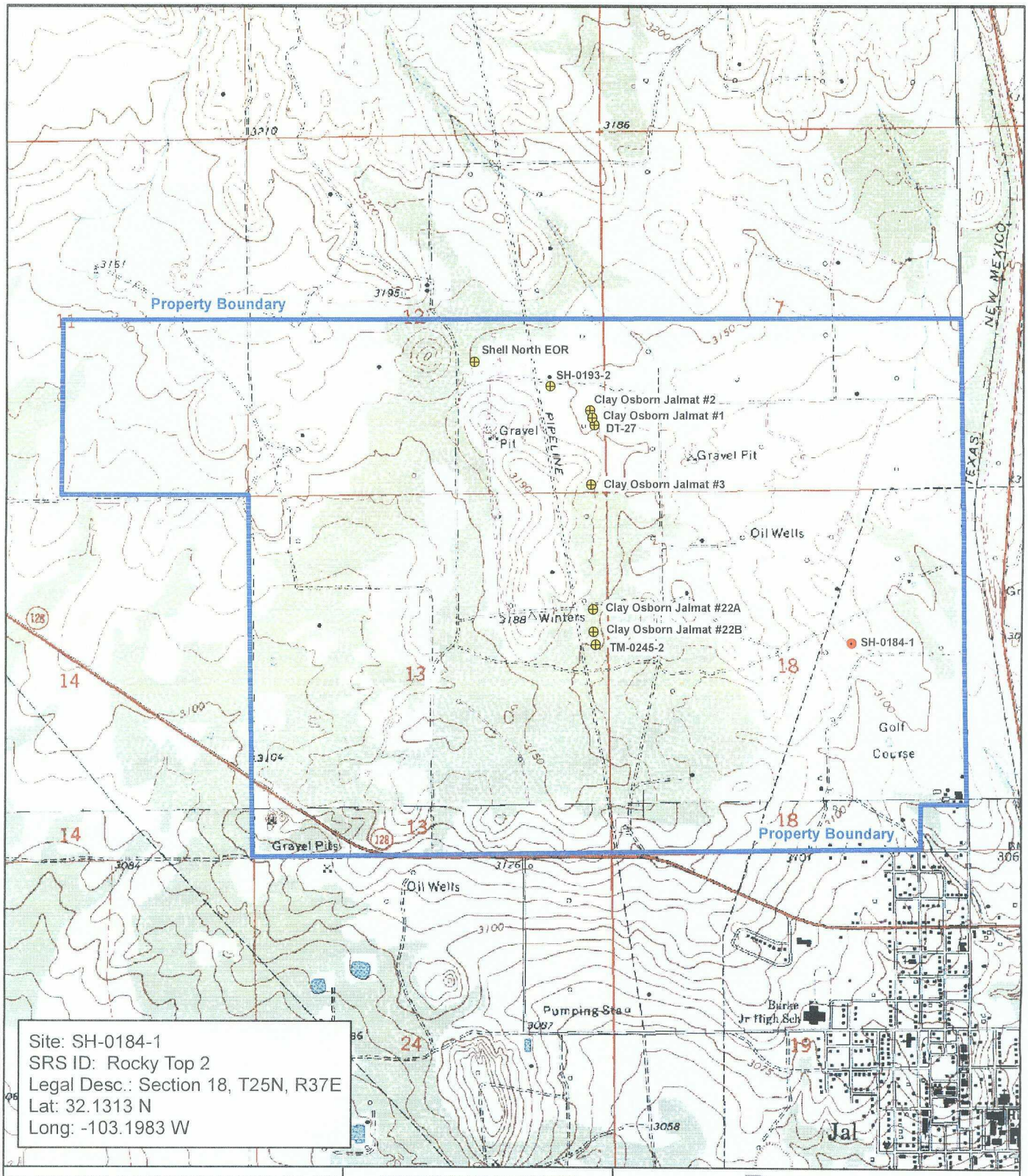
TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

PLAINS PIPELINE, L. P.
SH-0184-1
LEA COUNTY, NEW MEXICO
PLAINS SRS ID: ROCKY TOP 2

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)	C6-C35 (mg/kg)
SH1-SB1-2	2'	05/22/06	6E23004-01	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	8.73 J	<10	<10
SH1-SB1-5	5'	05/22/06	6E23004-02	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB1-15	15'	05/22/06	6E23004-04	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB2-2	2'	05/22/06	6E23004-05	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	28	<10	28
SH1-SB2-5	5'	05/22/06	6E23004-06	<0.0250	<0.0250	<0.0250	0.0223 J	<0.0250	<10	<10	<10	<10
SH1-SB2-15	15'	05/22/06	6E23004-08	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB3-2	2'	05/22/06	6E23004-10	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB3-5	5'	05/22/06	6E23004-11	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB3-15	15'	05/22/06	6E23004-13	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB4-2	2'	05/22/06	6E23004-14	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB4-5	5'	05/22/06	6E23004-15	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB4-15	15'	05/22/06	6E23004-17	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB5-2	2'	05/22/06	6E23004-18	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	111	13.7	125
SH1-SB5-5	5'	05/22/06	6E23004-19	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH1-SB5-15	15'	05/22/06	6E23004-21	<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

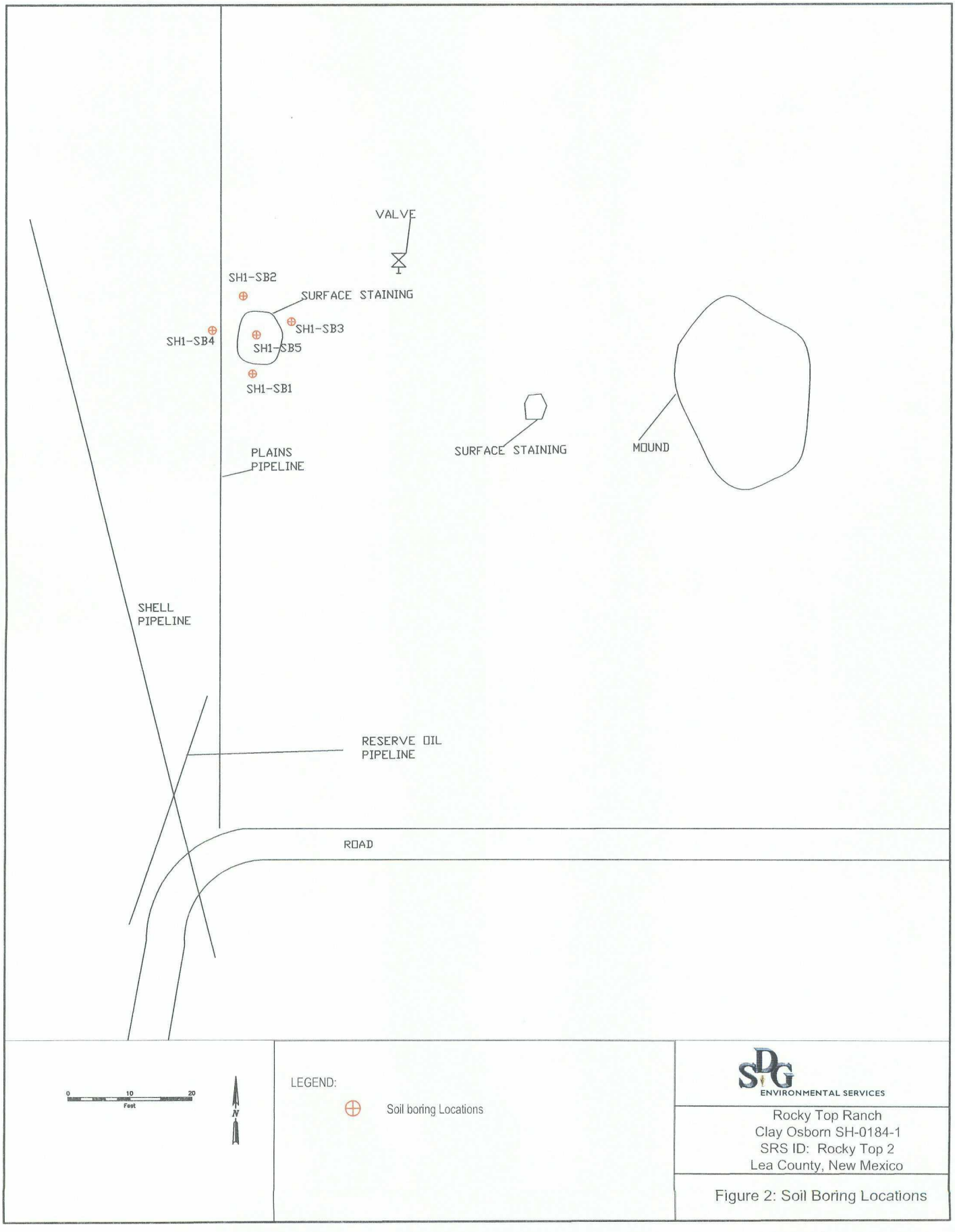
Feet

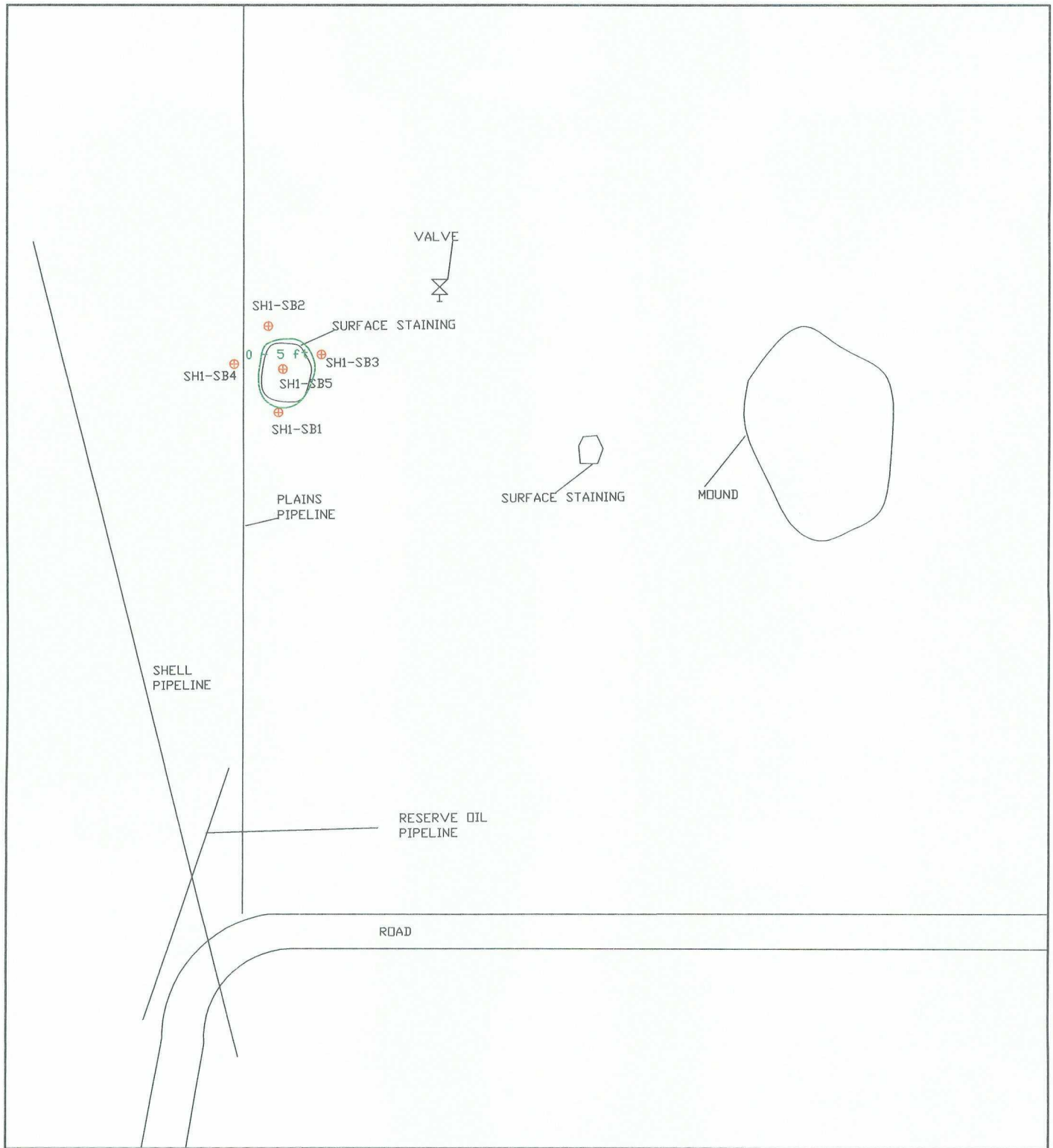
N

ENVIRONMENTAL SERVICES

SH-0184-1
SRS ID: Rocky Top 2
Plains Marketing L.P.
Lea County, New Mexico

Figure 1: Site Location Map


VALVE
SH1-SB2
SURFACE STAINING
SH1-SB3
SH1-SB4
SH1-SB5
SH1-SB1
PLAINS
PIPELINE
SURFACE STAINING
MOUND
SHELL
PIPELINE
RESERVE OIL
PIPELINE
ROAD
0
10
20
Feet
N
LEGEND:
Soil boring Locations
SPG
ENVIRONMENTAL SERVICES
Rocky Top Ranch
Clay Osborn SH-0184-1
SRS ID: Rocky Top 2
Lea County, New Mexico
Figure 2: Soil Boring Locations



SPG ENVIRONMENTAL SERVICES

Rocky Top Ranch
SH-0184-1
SRS ID: Rocky Top 2
Lea County, New Mexico

Figure 3: Estimated Excavation Area and Depths

APPENDIX A
SITE PHOTOGRAPHS

APPENDIX B
ENVIRONMENTAL LABORATORY OF TEXAS
ANALYTICAL RESULTS

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: SH-0184-1

Project Number: SRS # Rocky Top 2

Location: Rocky Top

Lab Order Number: 6E23004

Report Date: 05/25/06

Plains All American EH & S	Project: SH-0184-I	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SH1-SB1-2	6E23004-01	Soil	05/22/06 14:35	05/22/06 18:50
SH1-SB1-5	6E23004-02	Soil	05/22/06 14:45	05/22/06 18:50
SH1-SB1-15	6E23004-04	Soil	05/22/06 14:55	05/22/06 18:50
SH1-SB2-2	6E23004-05	Soil	05/22/06 15:05	05/22/06 18:50
SH1-SB2-5	6E23004-06	Soil	05/22/06 15:07	05/22/06 18:50
SH1-SB2-15	6E23004-08	Soil	05/22/06 15:15	05/22/06 18:50
SH1-SB3-2	6E23004-10	Soil	05/22/06 15:40	05/22/06 18:50
SH1-SB3-5	6E23004-11	Soil	05/22/06 15:45	05/22/06 18:50
SH1-SB3-15	6E23004-13	Soil	05/22/06 15:55	05/22/06 18:50
SH1-SB4-2	6E23004-14	Soil	05/22/06 16:16	05/22/06 18:50
SH1-SB4-5	6E23004-15	Soil	05/22/06 16:20	05/22/06 18:50
SH1-SB4-15	6E23004-17	Soil	05/22/06 16:25	05/22/06 18:50
SH1-SB5-2	6E23004-18	Soil	05/22/06 16:40	05/22/06 18:50
SH1-SB5-5	6E23004-19	Soil	05/22/06 16:45	05/22/06 18:50
SH1-SB5-15	6E23004-21	Soil	05/22/06 16:55	05/22/06 18:50

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

Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB1-2 (6E23004-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	
Carbon Ranges C12-C28	**J [8.73]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.6 %*	*70-130*		"	"	"	"	
SH1-SB1-5 (6E23004-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	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		*92.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.8 %*	*70-130*		"	"	"	"	
SH1-SB1-15 (6E23004-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB1-15 (6E23004-04) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.2 %*	*70-130*		"	"	"	"	
SH1-SB2-2 (6E23004-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	
Carbon Ranges C12-C28	**28.0**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**28.0**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.4 %*	*70-130*		"	"	"	"	
SH1-SB2-5 (6E23004-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	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		*91.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.4 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB2-15 (6E23004-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*113 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	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		*91.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.4 %*	*70-130*		"	"	"	"	
SH1-SB3-2 (6E23004-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	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		*90.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.0 %*	*70-130*		"	"	"	"	
SH1-SB3-5 (6E23004-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/24/06	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		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB3-5 (6E23004-11) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.0 %*	*70-130*		"	"	"	"	
SH1-SB3-15 (6E23004-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/23/06	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		*92.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.2 %*	*70-130*		"	"	"	"	
SH1-SB4-2 (6E23004-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/24/06	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		*83.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB4-5 (6E23004-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62318	05/23/06	05/24/06	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		*87.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.0 %*	*70-130*		"	"	"	"	
SH1-SB4-15 (6E23004-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*113 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62419	05/24/06	05/24/06	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		*87.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.4 %*	*70-130*		"	"	"	"	
SH1-SB5-2 (6E23004-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62419	05/24/06	05/24/06	EPA 8015M	

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB5-2 (6E23004-18) Soil									
Carbon Ranges C12-C28	**111**	10.0	mg/kg dry	1	EE62419	05/24/06	05/24/06	EPA 8015M	
Carbon Ranges C28-C35	**13.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**125**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.0 %*	*70-130*		"	"	"	"	
SH1-SB5-5 (6E23004-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*99.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62419	05/24/06	05/24/06	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		*96.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
SH1-SB5-15 (6E23004-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE62422	05/24/06	05/25/06	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		*94.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62419	05/24/06	05/24/06	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		*90.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.2 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB1-2 (6E23004-01) Soil									
% Moisture	**4.6**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB1-5 (6E23004-02) Soil									
% Moisture	**7.4**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB1-15 (6E23004-04) Soil									
% Moisture	**7.4**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB2-2 (6E23004-05) Soil									
% Moisture	**7.2**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB2-5 (6E23004-06) Soil									
% Moisture	**5.4**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB2-15 (6E23004-08) Soil									
% Moisture	**5.5**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB3-2 (6E23004-10) Soil									
% Moisture	**5.6**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB3-5 (6E23004-11) Soil									
% Moisture	**7.3**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB3-15 (6E23004-13) Soil									
% Moisture	**3.7**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB4-2 (6E23004-14) Soil									
% Moisture	**2.4**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB4-5 (6E23004-15) Soil									
% Moisture	**21.3**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH1-SB4-15 (6E23004-17) Soil									
% Moisture	**6.2**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB5-2 (6E23004-18) Soil									
% Moisture	**3.6**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB5-5 (6E23004-19) Soil									
% Moisture	**5.5**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	
SH1-SB5-15 (6E23004-21) Soil									
% Moisture	**6.6**	0.1	%	1	EE62405	05/23/06	05/24/06	% calculation	

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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 EE62318 - Solvent Extraction (GC)										
Blank (EE62318-BLK1)				Prepared & Analyzed: 05/23/06						
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	*51.9*		*mg kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.8*		"	*50.0*		*108*	*70-130*			
LCS (EE62318-BS1)				Prepared & Analyzed: 05/23/06						
Carbon Ranges C6-C12	455	10.0	mg/kg wet	500		91.0	75-125			
Carbon Ranges C12-C28	513	10.0	"	500		103	75-125			
Total Hydrocarbon nC6-nC35	968	10.0	"	1000		96.8	75-125			
Surrogate: 1-Chlorooctane	*52.2*		*mg kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.2*		"	*50.0*		*96.4*	*70-130*			
Calibration Check (EE62318-CCV1)				Prepared: 05/23/06 Analyzed: 05/24/06						
Carbon Ranges C6-C12	270		mg/kg	250		108	80-120			
Carbon Ranges C12-C28	259		"	250		104	80-120			
Total Hydrocarbon nC6-nC35	529		"	500		106	80-120			
Surrogate: 1-Chlorooctane	*52.6*		"	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.3*		"	*50.0*		*105*	*70-130*			
Matrix Spike (EE62318-MS1)	**Source: 6E23004-01**			Prepared & Analyzed: 05/23/06						
Carbon Ranges C6-C12	599	10.0	mg/kg dry	524	ND	114	75-125			
Carbon Ranges C12-C28	605	10.0	"	524	8.73	114	75-125			
Total Hydrocarbon nC6-nC35	1200	10.0	"	1050	ND	114	75-125			
Surrogate: 1-Chlorooctane	*52.9*		*mg kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.7*		"	*50.0*		*95.4*	*70-130*			

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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 EE62318 - Solvent Extraction (GC)										
Matrix Spike Dup (EE62318-MSD1)	**Source: 6E23004-01**			Prepared & Analyzed: 05/23/06						
Carbon Ranges C6-C12	622	10.0	mg/kg dry	524	ND	119	75-125	3.77	20	
Carbon Ranges C12-C28	619	10.0	"	524	8.73	116	75-125	2.29	20	
Total Hydrocarbon nC6-nC35	1240	10.0	"	1050	ND	118	75-125	3.28	20	
Surrogate: 1-Chlorooctane	*54.9*		*mg kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.9*		"	*50.0*		*95.8*	*70-130*			
Batch EE62419 - Solvent Extraction (GC)										
Blank (EE62419-BLK1)				Prepared & Analyzed: 05/24/06						
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	*41.9*		*mg kg*	*50.0*		*83.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.1*		"	*50.0*		*86.2*	*70-130*			
LCS (EE62419-BS1)				Prepared & Analyzed: 05/24/06						
Carbon Ranges C6-C12	596	10.0	mg/kg wet	500		119	75-125			
Carbon Ranges C12-C28	527	10.0	"	500		105	75-125			
Total Hydrocarbon nC6-nC35	1120	10.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	*53.9*		*mg kg*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.1*		"	*50.0*		*94.2*	*70-130*			
Calibration Check (EE62419-CCV1)				Prepared: 05/24/06 Analyzed: 05/25/06						
Carbon Ranges C6-C12	266		mg/kg	250		106	80-120			
Carbon Ranges C12-C28	300		"	250		120	80-120			
Total Hydrocarbon nC6-nC35	566		"	500		113	80-120			
Surrogate: 1-Chlorooctane	*53.7*		"	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.9*		"	*50.0*		*106*	*70-130*			

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Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

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 EE62419 - Solvent Extraction (GC)										
Matrix Spike (EE62419-MS1)	**Source: 6E23005-01**			Prepared & Analyzed: 05/24/06						
Carbon Ranges C6-C12	566	10.0	mg/kg dry	526	ND	108	75-125			
Carbon Ranges C12-C28	552	10.0	"	526	ND	105	75-125			
Total Hydrocarbon nC6-nC35	1120	10.0	"	1050	ND	107	75-125			
Surrogate: 1-Chlorooctane	*46.9*		*mg kg*	*50.0*		*93.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.3*		"	*50.0*		*82.6*	*70-130*			
Matrix Spike Dup (EE62419-MSD1)	**Source: 6E23005-01**			Prepared & Analyzed: 05/24/06						
Carbon Ranges C6-C12	565	10.0	mg/kg dry	526	ND	107	75-125	0.177	20	
Carbon Ranges C12-C28	557	10.0	"	526	ND	106	75-125	0.902	20	
Total Hydrocarbon nC6-nC35	1120	10.0	"	1050	ND	107	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*47.4*		*mg kg*	*50.0*		*94.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.8*		"	*50.0*		*81.6*	*70-130*			
Batch EE62422 - EPA 5030C (GC)										
Blank (EE62422-BLK1)				Prepared & Analyzed: 05/24/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*44.0*		*ug kg*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.4*		"	*40.0*		*104*	*80-120*			
LCS (EE62422-BS1)				Prepared & Analyzed: 05/24/06						
Benzene	1.09	0.0250	mg/kg wet	1.25		87.2	80-120			
Toluene	1.13	0.0250	"	1.25		90.4	80-120			
Ethylbenzene	1.27	0.0250	"	1.25		102	80-120			
Xylene (p/m)	2.69	0.0250	"	2.50		108	80-120			
Xylene (o)	1.37	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.2*		*ug kg*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.4*		"	*40.0*		*106*	*80-120*			

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

Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

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 EE62422 - EPA 5030C (GC)										
Calibration Check (EE62422-CCV1)				Prepared: 05/24/06 Analyzed: 05/25/06						
Benzene	45.6		ug/kg	50.0		91.2	80-120			
Toluene	43.3		"	50.0		86.6	80-120			
Ethylbenzene	56.9		"	50.0		114	80-120			
Xylene (p/m)	101		"	100		101	80-120			
Xylene (o)	51.3		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.2*		"	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.0*		"	*40.0*		*105*	*80-120*			
Matrix Spike (EE62422-MS1)	**Source: 6E23009-02**			Prepared: 05/24/06 Analyzed: 05/25/06						
Benzene	1.15	0.0250	mg/kg dry	1.41	ND	81.6	80-120			
Toluene	1.26	0.0250	"	1.41	ND	89.4	80-120			
Ethylbenzene	1.39	0.0250	"	1.41	ND	98.6	80-120			
Xylene (p/m)	3.04	0.0250	"	2.81	ND	108	80-120			
Xylene (o)	1.53	0.0250	"	1.41	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.3*		*ug kg*	*40.0*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.0*		"	*40.0*		*108*	*80-120*			
Matrix Spike Dup (EE62422-MSD1)	**Source: 6E23009-02**			Prepared: 05/24/06 Analyzed: 05/25/06						
Benzene	1.13	0.0250	mg/kg dry	1.41	ND	80.1	80-120	1.86	20	
Toluene	1.22	0.0250	"	1.41	ND	86.5	80-120	3.30	20	
Ethylbenzene	1.39	0.0250	"	1.41	ND	98.6	80-120	0.00	20	
Xylene (p/m)	2.96	0.0250	"	2.81	ND	105	80-120	2.82	20	
Xylene (o)	1.49	0.0250	"	1.41	ND	106	80-120	2.79	20	
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*ug kg*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.4*		"	*40.0*		*111*	*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
Batch EE62405 - General Preparation (Prep)										
Blank (EE62405-BLK1)				Prepared: 05/23/06 Analyzed: 05/24/06						
% Solids	100		%							
Duplicate (EE62405-DUP1)	**Source: 6E23004-01**			Prepared: 05/23/06 Analyzed: 05/24/06						
% Solids	95.3		%		95.4			0.105	20	
Duplicate (EE62405-DUP2)	**Source: 6E23006-03**			Prepared: 05/23/06 Analyzed: 05/24/06						
% Solids	97.8		%		97.9			0.102	20	
Duplicate (EE62405-DUP3)	**Source: 6E23011-03**			Prepared: 05/23/06 Analyzed: 05/24/06						
% Solids	91.9		%		93.7			1.94	20	

Plains All American EH & S	Project: SH-0184-1	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS # Rocky Top 2	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/25/06 16:09

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 5/25/2006

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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Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kenneth Cody / Camille Reynolds
Company Name: SDG Environmental Services / Plains
Company Address: 6611 Vialinda
City/State/Zip: Houston TX 77083
Telephone No: 713-806-7948 Fax No:
Sampler Signature:
Email:

Project Name: PLAINS SH-0164-1
Project #: SRS # Rocky Top 2
Project Loc: Rocky Top
PO #:

WR 23004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 (8015) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX (8021B/5030 or BTEX 8260	RCI	N.O.R.M.				RUSH TAT (Pre-Schedule)	Standard TAT
01	SH1 - SB1 - 2	5/22/06	1435	1										X		✓							✓							
02	SH1 - SB1 - 5		1445	1										X		✓							✓							
03	SH1 - SB1 - 10 HOLD		1450	1										X		✓							✓							HOLD
04	SH1 - SB1 - 15		1455	1										X		✓							✓							
05	SH1 - SB2 - 2		1505	1										X		✓							✓							
06	SH1 - SB2 - 5		1507	1										X		✓							✓							
07	SH1 - SB2 - 10 HOLD		1510	1										X		✓							✓							HOLD
08	SH1 - SB2 - 15		1515	1										X		✓							✓							
09	SH1 - SB2 - 20 HOLD		1520	1										X		✓							✓							HOLD
10	SH1 - SB3 - 2		1540	1										X		✓							✓							

Special Instructions:

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: Containers / Cooler None
Temperature Upon Receipt: 0.0 °C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-22-06	1850			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Rolanda Tuo	5-22-06	1850

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kenneth Cody
Company Name: SDG Environmental Services
Company Address: 6111 Rialinda
City/State/Zip: Houston Tx
Telephone No: 713-806-7948 Fax No: 281-933-4761
Sampler Signature: K Cody John Q
Email: kcody@SDGenv.com

Project Name: PLAINS SH-0184-1
Project #:
Project Loc: Rocky Top
PO #:

UE25004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TPH: 418.1 (8015M) 1005 1006	Calions (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-11	SH1-SB3-5	5/22/06	1545											X		✓							✓				
-12	SH1-SB3-10 HOLD		1550											X		✓							✓				HOLD
-13	SH1-SB3-15		1555											X		✓							✓				
-14	SH1-SB4-2		1616											X		✓							✓				
-15	SH1-SB4-5		1620											X		✓							✓				
-16	SH1-SB4-10 HOLD		1622											X		✓							✓				HOLD
-17	SH1-SB4-15		1625											X		✓							✓				
-18	SH1-SB5-2		1640											X		✓							✓				
-19	SH1-SB5-5		1645											X		✓							✓				
-20	SH1-SB5-10 HOLD		1649											X		✓							✓				HOLD

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler NONE
Temperature Upon Receipt: 0.0°C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
John Q	5-22-06	1850			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Kalandra	5-22-06	1850

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kenneth Cody
Company Name: SDG Environmental Services
Company Address: 6611 Vialinda
City/State/Zip: Houston TX 77083
Telephone No: 713-805-7948
Fax No:
Sampler Signature:
Email:

Project Name: PLAINS SH-0184-1
Project #:
Project Loc: Rocky Top
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	Analyze For: TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B/5030 or BTEX 8260)	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
112004 -21	SH1-535-15	5/22/06	1655	1										X		✓							✓				

Special Instructions:

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: Containers / Cooler NONE
Temperature Upon Receipt: 0.0°C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-22-06	1850			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Roland K-7-O	5-22-06	1850

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

Client: SDG Envt.

Date/Time: 5/22/06 18:50

Order #: 6E22004

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Apolicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

APPENDIX C
SOIL BORING LOGS

SDG

ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH1-SB1

PROJECT ROCKY TOP 2 LOCATION Jal, N.M.

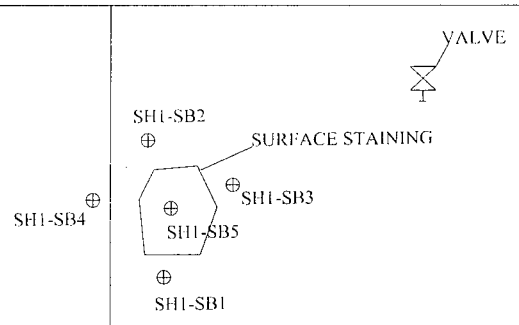
TOTAL BORING DEPTH 15' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/22/06

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		14	SH1-SB1-2	Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
2-4					Sandy calichi, tan, fine grained, well sorted, rounded, dry	
4-6	100		0.0	SH1-SB1-5	Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
6-8						
8-10	100		0.0			No odor No Staining
10-12					Sand to sandstone, tan, fine grained, well sorted, rounded, dry	
12-14	100		28.7	SH1-SB1-15		No odor No Staining
14-16					**TD= 15'**	

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH1-SB2

PROJECT ROCKY TOP 2 LOCATION Jal, N.M.

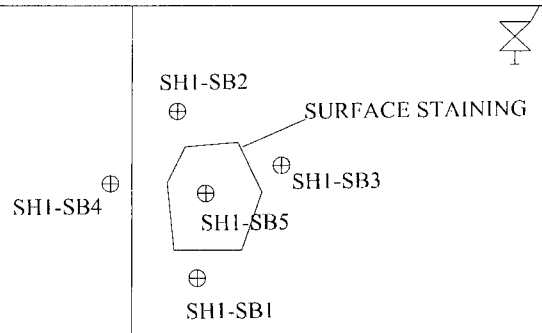
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/22/06

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

LOCATION MAP



INTERVAL	SAMPLE RECOVERY %	LOG	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
0-2	100		0.0	SH1-SB2-2	Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
2-4					Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
4-6	100		0.0	SH1-SB2-5	Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
6-8						
8-10	100		0.0	SH1-SB2-15	Sand to sandstone, tan to pink, fine grained, well sorted, rounded, dry	No odor No Staining
10-12						
12-14						
14-16			0.0		Caliche light tan	No odor No Staining
16-18						
18-20						
20					TD= 20'	
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH1-SB3

PROJECT ROCKY TOP 2 LOCATION Jal, N.M.

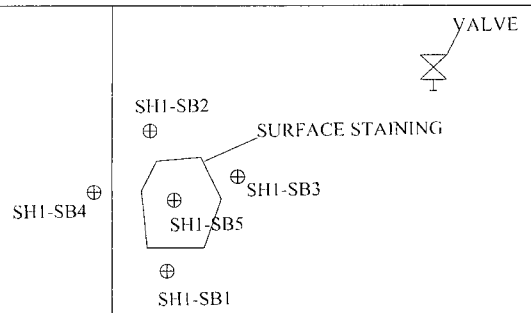
TOTAL BORING DEPTH 15' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/22/06

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

LOCATION MAP



INTERVAL	SAMPLE RECOVERY %	LOG	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
0						
0-2	100		3.0	SH1-SB1-2	Sandy calichi, tan, fine grained, well sorted, rounded, dry	No odor No Staining
2-4					Sandy calichi, light tan, fine grained, well sorted, rounded, dry	
4	100		0.0	SH1-SB1-5		No odor No Staining
6-8					Sandy calichi, light tan, fine grained, well sorted, rounded, dry	
8-10	100		0.0			No odor No Staining
10-12					Sand to sandstone, light pink, fine grained, well sorted, rounded, dry, calcified at 12'	
12-14	100		0.0	SH1-SB1-15		No odor No Staining
14					**TD= 15'**	
16-40						

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH1-SB4

PROJECT ROCKY TOP 2 LOCATION Jal, N.M.

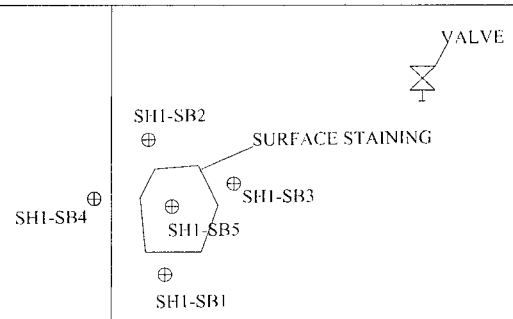
TOTAL BORING DEPTH 15' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/22/06

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

LOCATION MAP



INTERVAL	SAMPLE RECOVERY %	LOG	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
0						
	100		0.0	SH1-SB1-2	Sandy, tan, fine grained, well sorted, rounded, dry	No odor No Staining
2					Sandy calichi, light tan	
4	100		0.0	SH1-SB1-5		No odor No Staining
6					Sandy calichi, tan	
8						
10	100		0.0			No odor No Staining
12					Sand, tan to light pink, fine grained, well sorted, rounded, dry	
14	100		0.0	SH1-SB1-15		No odor No Staining
16					TD= 15'	
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH1-SB5

PROJECT ROCKY TOP 2 LOCATION Jal, N.M.

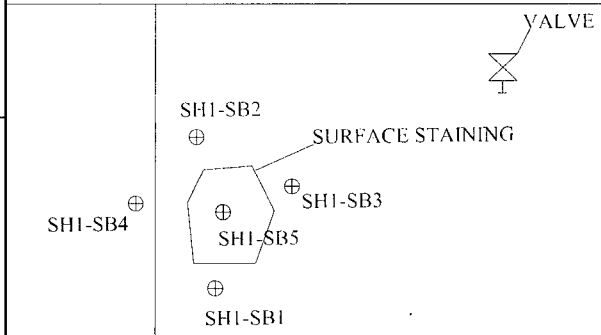
TOTAL BORING DEPTH 15' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/22/06

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

LOCATION MAP



INTERVAL	SAMPLE RECOVERY %	LOG	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
0						No odor
2	100		0.0	SH1-SB5-2	Calichi, light tan.	No Staining
4	100		0.0	SH1-SB5-5	Calichi, light tan.	No odor
6					Sand, pink, fine grained, well sorted, rounded, dry	No Staining
8						
10	100		0.0			No odor
12					Sand, tan to light pink, fine grained, dry, calcified, hard	No Staining
14	100		0.0	SH1-SB4-15		No odor
16					TD= 15'	No Staining
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						