1R - 471

WORK PLAN

DATE:

JULY, 2006

IR - 471
Work Plan
July, 2006

PLAINS
PIPELINE, L.P.

July 24, 2006

IR-471

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 – Rocky Top #1 Site Remediation Work Plan
Clay Osborn Ranch – Jalmat #22B and TM 0245-2 Site Remediation Plan
Jal, Lea County, New Mexico

IR 471
GW-468

Dear Mr. Stone:

Plains Pipeline, L.P. (Plains) is pleased to submit the attached Site Investigation Report and Site-Specific Remediation Work Plans for two 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

Attachment: Rocky Top #1 and Jalmat #22B Site Investigation Report and Site-Specific Remediation Work Plans

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

JUL 20 2006

SITE INVESTIGATION REPORT
and
SITE-SPECIFIC REMEDIATION WORK PLAN

Clay Osborn Rocky Top Ranch
SH-0193-2 Release Site

SW1/4 SW1/4 UL-J, Section 12, Township 25 North, Range 37 East
Latitude 32° 8′ 30″ North, Longitude 103° 12′ 45″ West
Lea County, New Mexico

PLAINS PIPELINE, L.P. SRS ID: ROCKY TOP 1

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 SH-0193-2 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-J, 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′ 30″ North, and Longitude 103° 12′ 45″ West. The site is characterized by an area of surface staining; however, there is no indication of a pipeline in the immediate area of the release.

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 900 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.

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, two surface soil samples were collected of observable surface staining by others at the site identified as SH-0193-2. The samples were identified as OTS 16A and OTS 16B were 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 25 May 2006, SDG conducted an additional soil investigation in an effort to determine the vertical and horizontal extent of impacts at the SH-0193-2 site. The SH-0193-2 site was identified as an area of stained soils approximately 20 feet in diameter.

Four soil borings were installed in the SH-0193-2 area and are identified in Figure 2 as SH2-SB1, SH2-SB2, SH2-SB3 and SH2-SB4. Soil Boring SH1-SB1 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 10 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 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.

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 greater than 1000 ft southeast of the site. At the time of the May 2006 investigation, there was no water in the basin. 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 900 square feet. The vertical extent of soils impacted above NMOPCD standards based on the data obtained in the 25 May 2006 subsurface sampling is 5 to 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 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 SH2-SB1 was installed at the center of the visible surface staining of the historical release. 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 collected. Analytical results indicated that TPH concentrations exceeded the NMOCD standard of 100 mg/kg at 2 feet bgs (263 mg/kg), and 5 feet bgs (221 mg/kg). TPH was also detected at 20 feet bgs at an estimated 8.41 mg/kg which is estimated because it is above the method detection limit but below the laboratory reporting limit. Laboratory results of soil samples collected at 10, 15, and 25 feet bgs indicated that TPH-GRO/DRO concentrations were not detected above the laboratory method detection limits.

Soil Boring SH2-SB2 was installed at a location 20 feet south of the visibly stained area of the historical release site. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15 and 20 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 and TPH were not detected above the laboratory method detection limits in any of the samples.

Soil Boring SH2-SB3 was installed at a location 20 feet northeast of the visible surface staining. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the samples. Analytical results indicated that TPH concentrations exceeded the NMOCD standard of 100 mg/kg at 2 feet bgs (186 mg/kg). Laboratory results of soil samples collected at 5, 10, 15 and 20 feet bgs indicated that TPH-GRO/DRO concentrations were not detected above the laboratory method detection limits.

Soil Boring SH2-SB4 was installed at a location 20 feet northwest of the visible surface staining. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 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 exceeded the NMOCD standard of 100 mg/kg at 2 feet bgs (378 mg/kg). Laboratory results of soil samples collected at 5, 10, 15 and 20 feet bgs indicated that TPH-GRO/DRO concentrations were not detected above the laboratory method detection limits.

The extent of hydrocarbon impacted soils has been delineated vertically. The horizontal extent of impacted soils at depths greater than 2 feet bgs has been defined. Hydrocarbon impacted soils shallower than 2 feet bgs have not been fully delineated to the north of the surface stained area and SH2-SB1. 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 any of the borings. Soil boring SH2- SB1 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 10 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 10 feet bgs. Given the NMOCD guideline cleanup standard of 100 mg/kg TPH, an estimated 870 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. Because the impacts greater than 100mg/kg TPH are limited in vertical extent (i.e. 10 to 15 feet in depth) these soils will be remediated under the General Work Plan Scenario 2 (complete 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.

- Excavation of impacted soils to between 5 to 10 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.
- Install a 20-mil impermeable polyethylene liner in the bottom of the excavation (minimum depth of 10 feet bgs) to isolate the excavated/treated soils from the underlying non-impacted soils to prevent vertical migration of petroleum hydrocarbons and allow these soils to further attenuate over time (liner installation details are provided below).
- Backfill the excavation with soil treated to 1000 mg/kg TPH (100 mg/kg if no liner is installed) 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 have been found to be shallower than 10 feet bgs. However, should areas where vertical hydrocarbon impacted soils extend below 15 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 contaminates 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 Preliminary Investigation Report 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

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New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 88240
ed.martin@state.nm.us

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Kenneth Cody
SDG Environmental Services
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Houston, Texas 77083
kcody@sdgenv.com

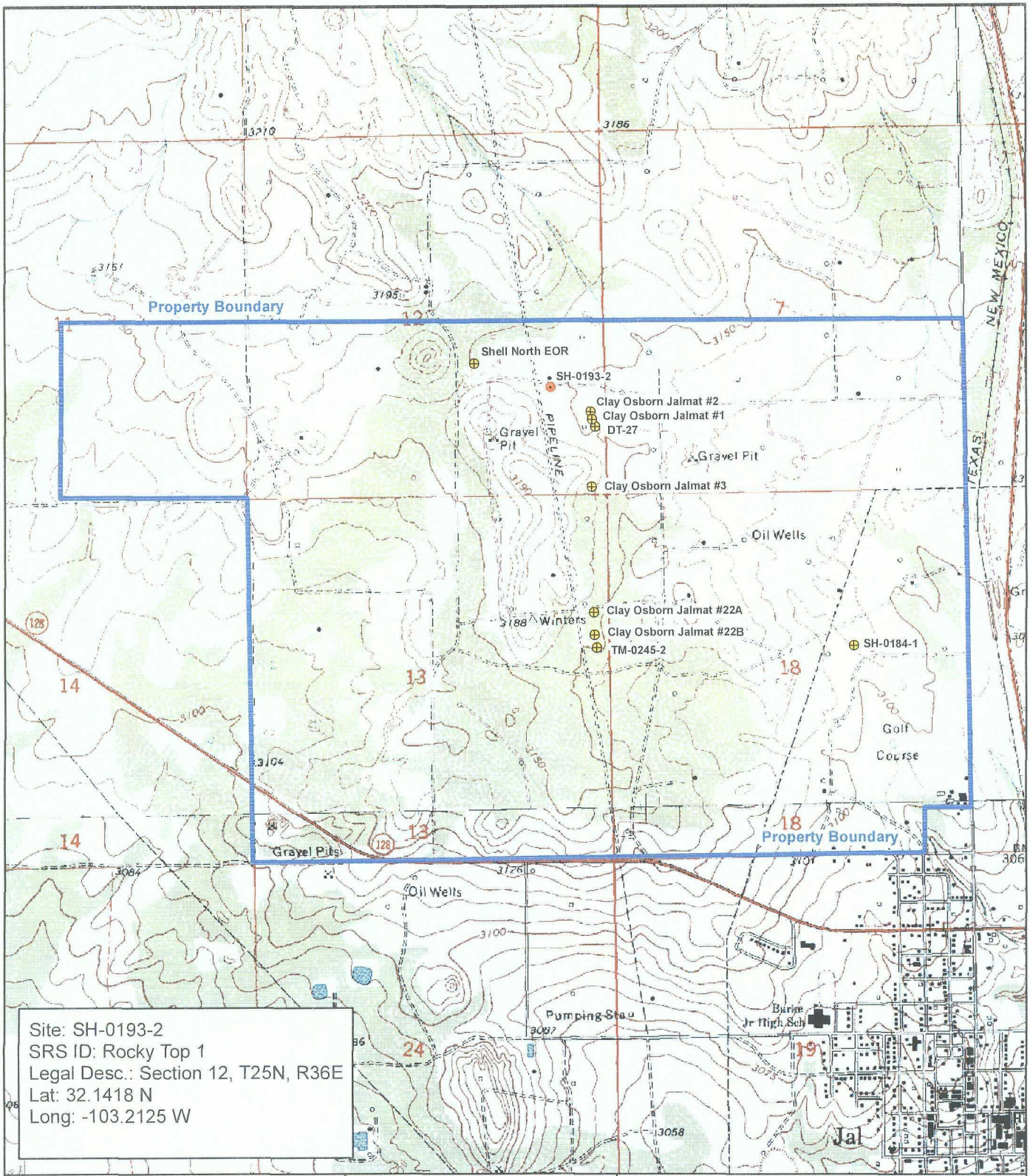
TABLE 1

SOIL CHEMISTRY, SOIL BORING 1

PLAINS MARKETING, L. P.
SH-0193-2
LEA COUNTY, NEW MEXICO
PLAINS SRS ID: Rocky Top 1

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)
SH2-SB1-2	2'	05/25/06	6E26004-01	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	219	43.8	263
SH2-SB1-5	5'	05/25/06	6E26004-02	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	182	39.3	221
SH2-SB1-10	10'	05/25/06	6E26004-03	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB1-15	15'	05/25/06	6E26004-04	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB1-20	20'	05/25/06	6E26004-05	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	8.41 J	<10	<10
SH2-SB1-25	25'	05/25/06	6E26004-06	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB2-2	2'	05/25/06	6E26004-07	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB2-5	5'	05/25/06	6E26004-08	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB2-10	10'	05/25/06	6E26004-09	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB2-15	15'	05/25/06	6E26004-10	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB2-20	20'	05/25/06	6E26004-11	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB3-2	2'	05/25/06	6E26004-12	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	155	30.6	186
SH2-SB3-5	5'	05/25/06	6E26004-13	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB3-10	10'	05/25/06	6E26004-14	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB3-15	15'	05/25/06	6E26004-15	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB3-20	20'	05/25/06	6E26004-16	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB4-2	2'	05/25/06	6E26004-17	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	288	90.4	378
SH2-SB4-5	5'	05/25/06	6E26004-18	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB4-10	10'	05/25/06	6E26004-19	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB4-15	15'	05/25/06	6E26004-20	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10
SH2-SB4-20	20'	05/25/06	6E26004-21	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10	<10

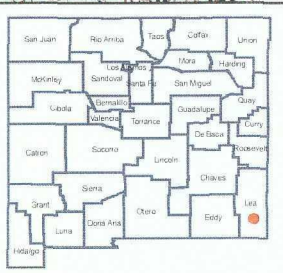
< indicates the constituent was not detected
J=Detected but below the reporting limit; therfore the result is an estimate



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

0 1,000 2,000

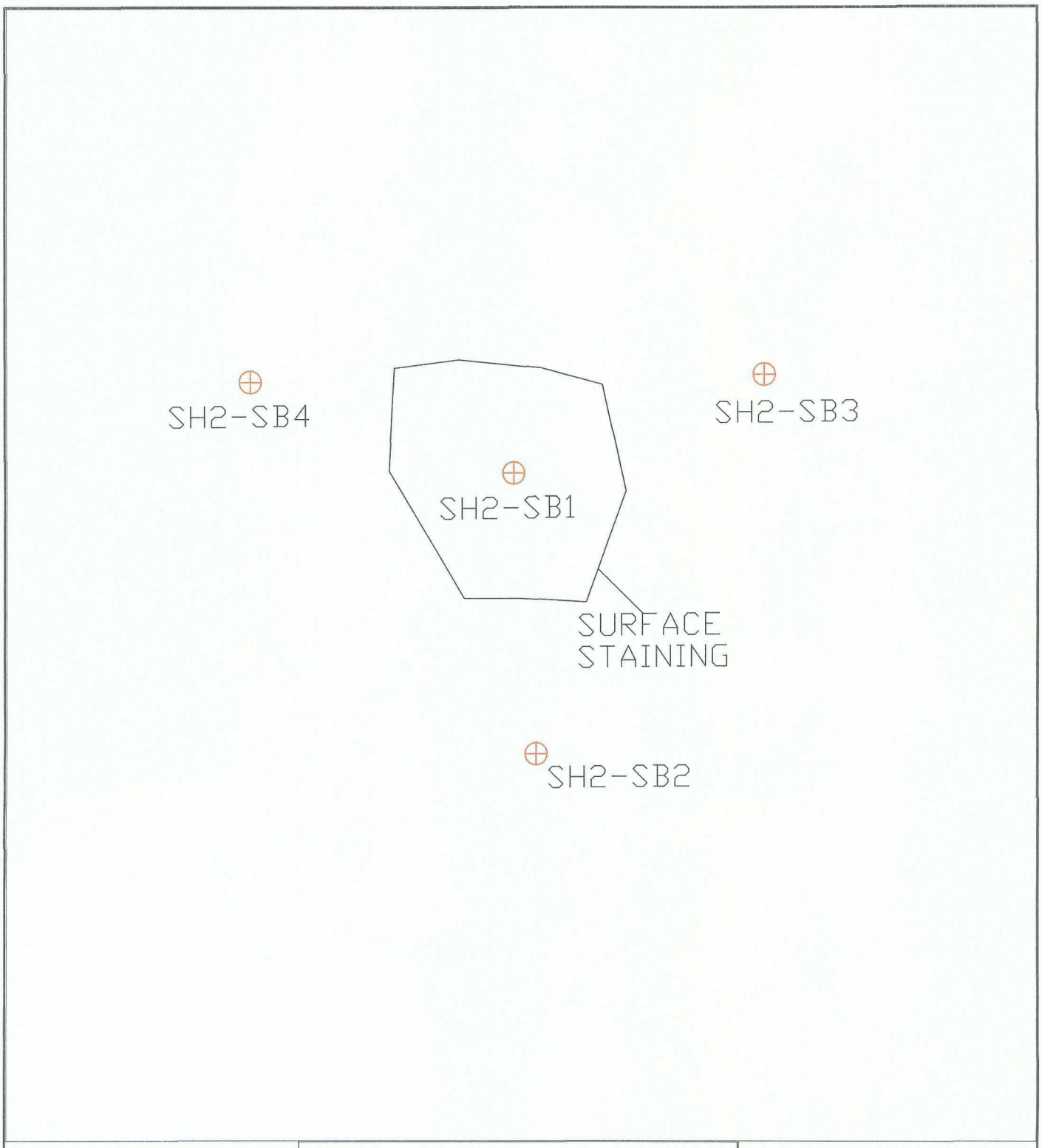
Feet



SDG ENVIRONMENTAL SERVICES

SH-0193-2
SRS ID: Rocky Top 1
Plains Marketing L.P.
Lea County, New Mexico

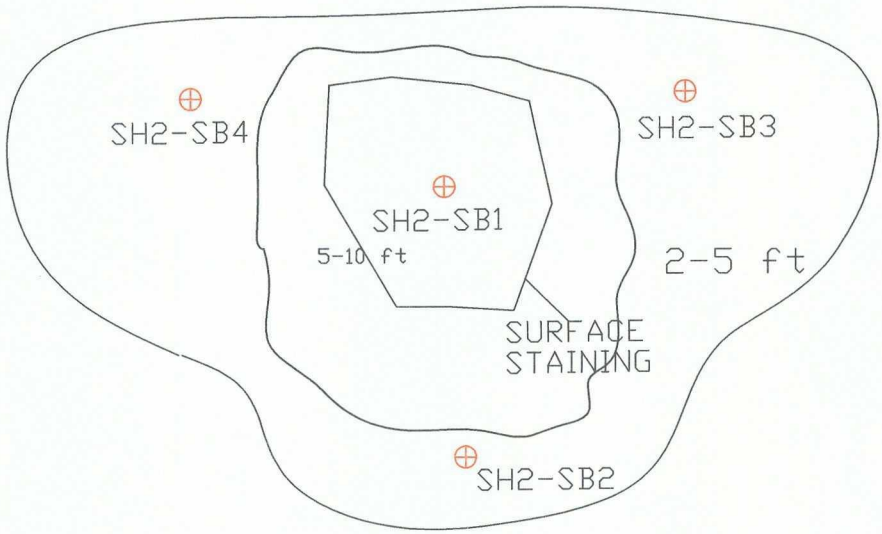
Figure 1: Site Location Map



SPG ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn SH-0193-2
SRS ID: Rocky Top 1
Lea County, New Mexico

Figure 2: Soil Boring Locations



0 10 20
Feet

N

LEGEND:

⊕ Soil boring Locations

SDG ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn SH-0193-2
SRS ID: Rocky Top 1
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-0193-2

Project Number: Rocky Top 1

Location: SH-0193-2

Lab Order Number: 6E26004

Report Date: 06/07/06

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SH2-SB1-2	6E26004-01	Soil	05/25/06 09:00	05/26/06 09:34
SH2-SB1-5	6E26004-02	Soil	05/25/06 09:05	05/26/06 09:34
SH2-SB1-10	6E26004-03	Soil	05/25/06 09:10	05/26/06 09:34
SH2-SB1-15	6E26004-04	Soil	05/25/06 09:15	05/26/06 09:34
SH2-SB1-20	6E26004-05	Soil	05/25/06 09:20	05/26/06 09:34
SH2-SB1-25	6E26004-06	Soil	05/25/06 09:30	05/26/06 09:34
SH2-SB2-2	6E26004-07	Soil	05/25/06 09:45	05/26/06 09:34
SH2-SB2-5	6E26004-08	Soil	05/25/06 09:50	05/26/06 09:34
SH2-SB2-10	6E26004-09	Soil	05/25/06 09:55	05/26/06 09:34
SH2-SB2-15	6E26004-10	Soil	05/25/06 10:00	05/26/06 09:34
SH2-SB2-20	6E26004-11	Soil	05/25/06 09:55	05/26/06 09:34
SH2-SB3-2	6E26004-12	Soil	05/25/06 11:00	05/26/06 09:34
SH2-SB3-5	6E26004-13	Soil	05/25/06 11:05	05/26/06 09:34
SH2-SB3-10	6E26004-14	Soil	05/25/06 11:10	05/26/06 09:34
SH2-SB3-15	6E26004-15	Soil	05/25/06 11:15	05/26/06 09:34
SH2-SB3-20	6E26004-16	Soil	05/25/06 11:20	05/26/06 09:34
SH2-SB4-2	6E26004-17	Soil	05/25/06 11:35	05/26/06 09:34
SH2-SB4-5	6E26004-18	Soil	05/25/06 11:40	05/26/06 09:34
SH2-SB4-10	6E26004-19	Soil	05/25/06 11:45	05/26/06 09:34
SH2-SB4-15	6E26004-20	Soil	05/25/06 11:50	05/26/06 09:34
SH2-SB4-20	6E26004-21	Soil	05/25/06 11:55	05/26/06 09:34

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

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top I	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB1-2 (6E26004-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	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		*88.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**219**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**43.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**263**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.8 %*	*70-130*		"	"	"	"	
SH2-SB1-5 (6E26004-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	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		*89.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**182**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**39.3**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**221**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
SH2-SB1-10 (6E26004-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	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		*86.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	EPA 8015M	

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB1-10 (6E26004-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.4 %*	*70-130*		"	"	"	"	
SH2-SB1-15 (6E26004-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	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		*89.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	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		*123 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*114 %*	*70-130*		"	"	"	"	
SH2-SB1-20 (6E26004-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	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		*94.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**J [8.41]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.2 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB1-25 (6E26004-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*92.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*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		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
SH2-SB2-2 (6E26004-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*90.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*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	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
SH2-SB2-5 (6E26004-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*90.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	05/31/06	EPA 8015M	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB2-5 (6E26004-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE63113	05/31/06	05/31/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.2 %*	*70-130*		"	"	"	"	
SH2-SB2-10 (6E26004-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*80.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*93.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
SH2-SB2-15 (6E26004-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*82.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*89.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.6 %*	*70-130*		"	"	"	"	

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Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB2-20 (6E26004-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*89.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.0 %*	*70-130*		"	"	"	"	
SH2-SB3-2 (6E26004-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	**155**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**30.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**186**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.2 %*	*70-130*		"	"	"	"	
SH2-SB3-5 (6E26004-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	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		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB3-5 (6E26004-13) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.0 %*	*70-130*		"	"	"	"	
SH2-SB3-10 (6E26004-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*91.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	
SH2-SB3-15 (6E26004-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*91.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*88.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.8 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB3-20 (6E26004-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*82.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*91.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.4 %*	*70-130*		"	"	"	"	
SH2-SB4-2 (6E26004-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	**288**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**90.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**378**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.6 %*	*70-130*		"	"	"	"	
SH2-SB4-5 (6E26004-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB4-5 (6E26004-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.8 %*	*70-130*		"	"	"	"	
SH2-SB4-10 (6E26004-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*89.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*91.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.8 %*	*70-130*		"	"	"	"	
SH2-SB4-15 (6E26004-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*80.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*83.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.6 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top I	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB4-20 (6E26004-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	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		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	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		*90.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.0 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB1-2 (6E26004-01) Soil									
% Moisture	**14.1**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB1-5 (6E26004-02) Soil									
% Moisture	**3.0**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB1-10 (6E26004-03) Soil									
% Moisture	**18.3**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB1-15 (6E26004-04) Soil									
% Moisture	**16.6**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB1-20 (6E26004-05) Soil									
% Moisture	**7.9**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB1-25 (6E26004-06) Soil									
% Moisture	**1.8**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-2 (6E26004-07) Soil									
% Moisture	**3.3**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-5 (6E26004-08) Soil									
% Moisture	**5.3**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-10 (6E26004-09) Soil									
% Moisture	**19.4**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-15 (6E26004-10) Soil									
% Moisture	**17.8**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-20 (6E26004-11) Soil									
% Moisture	**16.9**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SH2-SB3-2 (6E26004-12) Soil									
% Moisture	**3.5**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB3-5 (6E26004-13) Soil									
% Moisture	**1.7**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB3-10 (6E26004-14) Soil									
% Moisture	**22.8**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB3-15 (6E26004-15) Soil									
% Moisture	**1.3**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB3-20 (6E26004-16) Soil									
% Moisture	**1.4**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-2 (6E26004-17) Soil									
% Moisture	**2.2**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-5 (6E26004-18) Soil									
% Moisture	**1.8**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-10 (6E26004-19) Soil									
% Moisture	**5.6**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-15 (6E26004-20) Soil									
% Moisture	**2.6**	0.1	%	1	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-20 (6E26004-21) Soil									
% Moisture	**1.7**	0.1	%	1	EE62901	05/26/06	05/27/06	% 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 EE63029 - Solvent Extraction (GC)										
Blank (EE63029-BLK1)				Prepared: 05/30/06 Analyzed: 05/31/06						
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	*47.5*		*mg kg*	*50.0*		*95.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.8*		*"*	*50.0*		*95.6*	*70-130*			
LCS (EE63029-BS1)				Prepared: 05/30/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	574	10.0	mg/kg wet	500		115	75-125			
Carbon Ranges C12-C28	560	10.0	"	500		112	75-125			
Total Hydrocarbon nC6-nC35	1130	10.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	*55.1*		*mg kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.2*		*"*	*50.0*		*96.4*	*70-130*			
Calibration Check (EE63029-CCV1)				Prepared: 05/30/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	289		mg/kg	250		116	80-120			
Carbon Ranges C12-C28	292		"	250		117	80-120			
Total Hydrocarbon nC6-nC35	581		"	500		116	80-120			
Surrogate: 1-Chlorooctane	*62.9*		*"*	*50.0*		*126*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.9*		*"*	*50.0*		*124*	*70-130*			
Matrix Spike (EE63029-MS1)	**Source: 6E26003-08**			Prepared: 05/30/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	780	10.0	mg/kg dry	620	10.4	124	75-125			
Carbon Ranges C12-C28	1120	10.0	"	620	509	98.5	75-125			
Carbon Ranges C28-C35	35.8	10.0	"	0.00	41.0		75-125			
Total Hydrocarbon nC6-nC35	1940	10.0	"	1240	560	111	75-125			
Surrogate: 1-Chlorooctane	*63.6*		*mg kg*	*50.0*		*127*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.9*		*"*	*50.0*		*124*	*70-130*			

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

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 EE63029 - Solvent Extraction (GC)										
Matrix Spike Dup (EE63029-MSD1)	**Source: 6E26003-08**			Prepared: 05/30/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	772	10.0	mg/kg dry	620	10.4	123	75-125	1.03	20	
Carbon Ranges C12-C28	1110	10.0	"	620	509	96.9	75-125	0.897	20	
Carbon Ranges C28-C35	31.6	10.0	"	0.00	41.0		75-125	12.5	20	
Total Hydrocarbon nC6-nC35	1910	10.0	"	1240	560	109	75-125	1.56	20	
Surrogate: 1-Chlorooctane	*63.2*		*mg kg*	*50.0*		*126*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.3*		*"*	*50.0*		*123*	*70-130*			
Batch EE63113 - Solvent Extraction (GC)										
Blank (EE63113-BLK1)				Prepared & Analyzed: 05/31/06						
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	*49.8*		*mg kg*	*50.0*		*99.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.0*		*"*	*50.0*		*108*	*70-130*			
LCS (EE63113-BS1)				Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	569	10.0	mg/kg wet	500		114	75-125			
Carbon Ranges C12-C28	575	10.0	"	500		115	75-125			
Total Hydrocarbon nC6-nC35	1140	10.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	*54.8*		*mg kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.1*		*"*	*50.0*		*102*	*70-130*			
Calibration Check (EE63113-CCV1)				Prepared: 05/31/06 Analyzed: 06/01/06						
Carbon Ranges C6-C12	249		mg/kg	250		99.6	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	507		"	500		101	80-120			
Surrogate: 1-Chlorooctane	*44.0*		*"*	*50.0*		*88.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*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 EE63113 - Solvent Extraction (GC)										
Matrix Spike (EE63113-MS1)	**Source: 6E26004-08**			Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	535	10.0	mg/kg dry	528	ND	101	75-125			
Carbon Ranges C12-C28	548	10.0	"	528	ND	104	75-125			
Total Hydrocarbon nC6-nC35	1080	10.0	"	1060	ND	102	75-125			
Surrogate: 1-Chlorooctane	*48.1*		*mg kg*	*50.0*		*96.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.3*		*"*	*50.0*		*90.6*	*70-130*			
Matrix Spike Dup (EE63113-MSD1)	**Source: 6E26004-08**			Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	551	10.0	mg/kg dry	528	ND	104	75-125	2.95	20	
Carbon Ranges C12-C28	562	10.0	"	528	ND	106	75-125	2.52	20	
Total Hydrocarbon nC6-nC35	1110	10.0	"	1060	ND	105	75-125	2.74	20	
Surrogate: 1-Chlorooctane	*49.0*		*mg kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.2*		*"*	*50.0*		*92.4*	*70-130*			
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*			

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 EE63114 - Solvent Extraction (GC)										
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*			
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 EF60224 - EPA 5030C (GC)										
Blank (EF60224-BLK1)				Prepared & Analyzed: 06/02/06						
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	*33.1*		*ug kg*	*40.0*		*82.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.2*		*"*	*40.0*		*90.5*	*80-120*			

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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 EF60224 - EPA 5030C (GC)										
LCS (EF60224-BS1)				Prepared: 06/02/06 Analyzed: 06/03/06						
Benzene	1.07	0.0250	mg/kg wet	1.25		85.6	80-120			
Toluene	1.02	0.0250	"	1.25		81.6	80-120			
Ethylbenzene	1.16	0.0250	"	1.25		92.8	80-120			
Xylene (p/m)	2.54	0.0250	"	2.50		102	80-120			
Xylene (o)	1.23	0.0250	"	1.25		98.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.8*		*ug kg*	*40.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.0*		*"*	*40.0*		*112*	*80-120*			
Calibration Check (EF60224-CCV1)				Prepared: 06/02/06 Analyzed: 06/03/06						
Benzene	44.4		ug/kg	50.0		88.8	80-120			
Toluene	41.6		"	50.0		83.2	80-120			
Ethylbenzene	46.6		"	50.0		93.2	80-120			
Xylene (p/m)	90.2		"	100		90.2	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.8*		*"*	*40.0*		*84.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.3*		*"*	*40.0*		*85.8*	*80-120*			
Matrix Spike (EF60224-MS1)		**Source: 6E26004-05**		Prepared: 06/02/06 Analyzed: 06/03/06						
Benzene	1.20	0.0250	mg/kg dry	1.36	ND	88.2	80-120			
Toluene	1.13	0.0250	"	1.36	ND	83.1	80-120			
Ethylbenzene	1.10	0.0250	"	1.36	ND	80.9	80-120			
Xylene (p/m)	2.56	0.0250	"	2.71	ND	94.5	80-120			
Xylene (o)	1.25	0.0250	"	1.36	ND	91.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.1*		*ug kg*	*40.0*		*82.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.8*		*"*	*40.0*		*102*	*80-120*			
Matrix Spike Dup (EF60224-MSD1)		**Source: 6E26004-05**		Prepared: 06/02/06 Analyzed: 06/03/06						
Benzene	1.14	0.0250	mg/kg dry	1.36	ND	83.8	80-120	5.12	20	
Toluene	1.12	0.0250	"	1.36	ND	82.4	80-120	0.846	20	
Ethylbenzene	1.21	0.0250	"	1.36	ND	89.0	80-120	9.54	20	
Xylene (p/m)	2.70	0.0250	"	2.71	ND	99.6	80-120	5.26	20	
Xylene (o)	1.30	0.0250	"	1.36	ND	95.6	80-120	3.95	20	
Surrogate: a,a,a-Trifluorotoluene	*37.0*		*ug kg*	*40.0*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.7*		*"*	*40.0*		*112*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60225 - EPA 5030C (GC)										
Blank (EF60225-BLK1)				Prepared: 06/02/06 Analyzed: 06/03/06						
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	*35.2*		*ug kg*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		*"*	*40.0*		*98.0*	*80-120*			
LCS (EF60225-BS1)				Prepared: 06/02/06 Analyzed: 06/03/06						
Benzene	1.09	0.0250	mg/kg wet	1.25		87.2	80-120			
Toluene	1.03	0.0250	"	1.25		82.4	80-120			
Ethylbenzene	1.13	0.0250	"	1.25		90.4	80-120			
Xylene (p/m)	2.51	0.0250	"	2.50		100	80-120			
Xylene (o)	1.22	0.0250	"	1.25		97.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.6*		*ug kg*	*40.0*		*96.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.0*		*"*	*40.0*		*115*	*80-120*			
Calibration Check (EF60225-CCV1)				Prepared: 06/02/06 Analyzed: 06/04/06						
Benzene	40.6		ug/kg	50.0		81.2	80-120			
Toluene	40.3		"	50.0		80.6	80-120			
Ethylbenzene	49.3		"	50.0		98.6	80-120			
Xylene (p/m)	91.0		"	100		91.0	80-120			
Xylene (o)	45.1		"	50.0		90.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.5*		*"*	*40.0*		*81.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.2*		*"*	*40.0*		*95.5*	*80-120*			
Matrix Spike (EF60225-MS1)	**Source: 6E26004-06**			Prepared: 06/02/06 Analyzed: 06/04/06						
Benzene	1.02	0.0250	mg/kg dry	1.27	ND	80.3	80-120			
Toluene	1.02	0.0250	"	1.27	ND	80.3	80-120			
Ethylbenzene	1.09	0.0250	"	1.27	ND	85.8	80-120			
Xylene (p/m)	2.38	0.0250	"	2.55	ND	93.3	80-120			
Xylene (o)	1.12	0.0250	"	1.27	ND	88.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.2*		*ug kg*	*40.0*		*93.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.5*		*"*	*40.0*		*86.2*	*80-120*			

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Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top I	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

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 EF60225 - EPA 5030C (GC)										
Matrix Spike Dup (EF60225-MSD1)	**Source: 6E26004-06**			Prepared: 06/02/06 Analyzed: 06/04/06						
Benzene	1.05	0.0250	mg/kg dry	1.27	ND	82.7	80-120	2.94	20	
Toluene	1.03	0.0250	"	1.27	ND	81.1	80-120	0.991	20	
Ethylbenzene	1.14	0.0250	"	1.27	ND	89.8	80-120	4.56	20	
Xylene (p/m)	2.45	0.0250	"	2.55	ND	96.1	80-120	2.96	20	
Xylene (o)	1.19	0.0250	"	1.27	ND	93.7	80-120	6.05	20	
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*ug kg*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*40.0*		*108*	*80-120*			

12600 West I-20 East - Odessa, Texas 79765 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: SH-0193-2	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: Rocky Top 1	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	06/07/06 11:08

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 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

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: 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.

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 / C. Reynolds
Company Name: SDC Environmental Services / Plains P/L
Company Address: 6611 Windfern
City/State/Zip: Houston Tx 77083
Telephone No: 713 896 7948 Fax No:
Sampler Signature:
Email:

Project Name: Plains SH-0193-2 (Rocky Top)
Project #: ~~2000~~ 106.06 Rocky Top 2
Project Loc: ~~SH2~~ SH-0193-2
PO #:

6E26004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz. glass	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 / 8015 (GRO) / 1005 / 1006	Analyze For: TOTAL: TPH: 418.1 / 8015 (GRO) / 1005 / 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-01	SH2 - SB1-2	5-25-06	0900	1	X									X		X								X				
-02	SH2 - SB1-5		0905	1	X									X		X								X				
-03	SH2 - SB1-10		0910	1	X									X		X								X				
-04	SH2 - SB1-15		0915	1	X									X		X								X				
-05	SH2 - SB1-20		0920	1	X									X		X								X				
-06	SH2 - SB1-25		0930	1	X									X		X								X				
-07	SH2 - SB2-2		0945	1	X									X		X								X				
-08	SH2 - SB2-5		0950	1	X									X		X								X				
-09	SH2 - SB2-10		0955	1	X									X		X								X				
-10	SH2 - SB2-15		1000	1	X									X		X								X				

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.5 C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-26-06	0934			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Diane McMurry	05-26-06	0934

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Plains SH-0193-2 ~~Rocky Top~~
Project #: ~~2000-10604~~ Rocky Top
Project Loc: ~~SHZ~~ SH-0193-2
PO #:

Project Manager: Kenneth Cody
Company Name: SDG Environmental Services
Company Address: 6611 Valinda
City/State/Zip: Houston Tx 77087
Telephone No: 713-266-7948 Fax No:
Sampler Signature:
Email:

6E26004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	Calions (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
-11	SH2-SB2-20	5-25-06	0955	1	X									X		X							X								
-12	SH2-SB3-2		1100	1	X									X		X							X								
-13	SH2-SB3-5		1105	1	X									X		X							X								
-14	SH2-SB3-10		1110	1	X									X		X							X								
-15	SH2-SB3-15		1115	1	X									X		X							X								
-16	SH2-SB3-20		1120	1	X									X		X							X								
-17	SH2-SB4-2		1135	1	X									X		X							X								
-18	SH2-SB4-5		1140	1	X									X		X							X								
-19	SH2-SB4-10		1145	1	X									X		X							X								
-20	SH2-SB4-15		1150	1	X									X		X							X								

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.5 °C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-26-06	0934			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne McMurry	05-26-06	0934

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: SDC Environmental Services
Company Address: 6611 Vialinda
City/State/Zip: Houston Tx 77088
Telephone No: 713-806-7948
Fax No:
Sampler Signature:
Email:

Project Name: Phillips SH-0193-7
Project #: ~~8000-1570~~ Rooftop 1
Project Loc: ~~SH~~ SH-0193-2
PO #:

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: TPH: 418.1 / 1005 / 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
6E26004 -21	SH2-SB 4-20	5-25-06	1155	1	X									X		X							X				
	Bond																										

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.5 °C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-26-06	0934			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jane McMurry	05-26-06	0934

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

Client: Plains P/L

Date/Time: 05-26-06 @ 0934

Order #: 6E26004

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	1.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	(Yes)	No	Not present
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

APPENDIX C
SOIL BORING LOGS

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH2-SB1

PROJECT ROCKY TOP 1 LOCATION Jal, N.M.

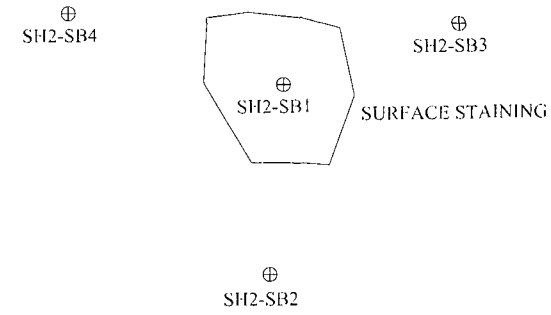
TOTAL BORING DEPTH 25' BOREHOLE DIA (in) 8.25"

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		0.0	SH2-SB1-2	Sand, tan, fine grained, well sorted, rounded, damp.	No odor Stained
2-4					Sand, pink, fine grained, well sorted, rounded, dry.	No odor Slt Staining
4-6	100		13.7	SH2-SB1-5	Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No odor No Staining
8-10	100		0.0	SH2-SB1-10	Sand, pink, fine grained, well sorted, rounded, slightly damp.	No odor No Staining
12-14	100		0.0	SH2-SB1-15	Sand, pink, fine grained, well sorted, rounded, dry, with some caliche.	No odor No Staining
16-18	100		0.0	SH2-SB1-20	Sand, pink, fine grained, well sorted, rounded, dry, with caliche.	No odor No Staining
22-24	100		0.0	SH2-SB1-25		No odor No Staining
26					TD= 25'	

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40

SPG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH2-SB2

PROJECT ROCKY TOP I LOCATION Jal, N.M.

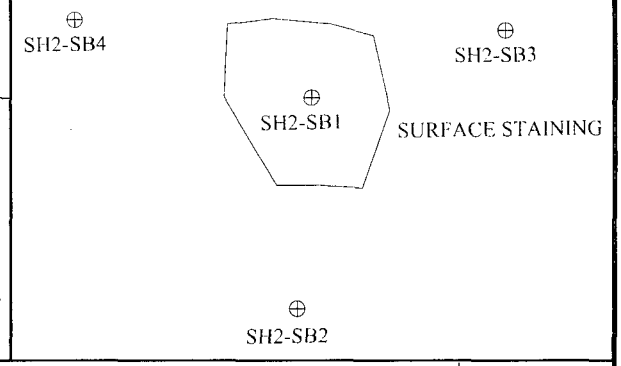
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/25/06

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	SH2-SB2-2	Sand, tan, fine grained, well sorted, rounded, dry.	No odor No Staining
2					Sand, pink, fine grained, well sorted, rounded, dry.	No odor No Staining
4	100		0.0	SH2-SB2-5	Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No odor No Staining
6						
8						
10	100		0.0	SH2-SB2-10	Sand, pink, fine grained, well sorted, rounded, with caliche.	No odor No Staining
12						
14	100		0.0	SH2-SB2-15	Sand, pink, fine grained, well sorted, rounded, dry, with some caliche.	No odor No Staining
16						
18						
20	100		0.0	SH2-SB2-20		No odor No Staining
					TD= 20'	
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH2-SB3

PROJECT ROCKY TOP 1 LOCATION Jal, N.M.

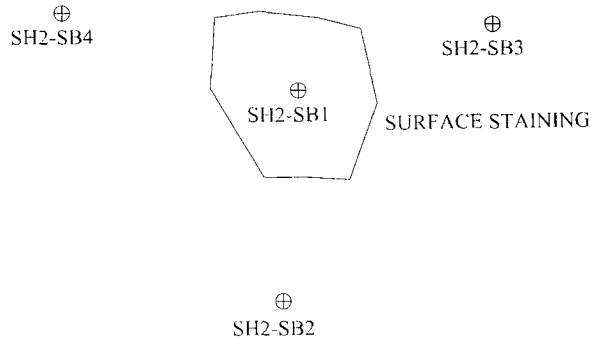
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/25/06

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						
	100		0.0	SH2-SB3-2	Sand, tan, fine grained, well sorted, rounded, dry.	No odor No Staining
2					Sand, pink, fine grained, well sorted, rounded, dry.	No odor No Staining
4	100		0.0	SH2-SB3-5		
6					Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No odor No Staining
8						
10	100		0.0	SH2-SB3-10	Sand, pink, fine grained, well sorted, rounded, with caliche.	No odor No Staining
12						
14	100		0.0	SH2-SB3-15		
16					Sand, pink, fine grained, well sorted, rounded, dry, with caliche.	No odor No Staining
18						
20	100		0.0	SH2-SB3-20		No odor No Staining
					TD= 20'	
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

SDG
ENVIRONMENTAL SERVICES

SOIL BORING NUMBER SH2-SB4

PROJECT ROCKY TOP 1 LOCATION Jal, N.M.

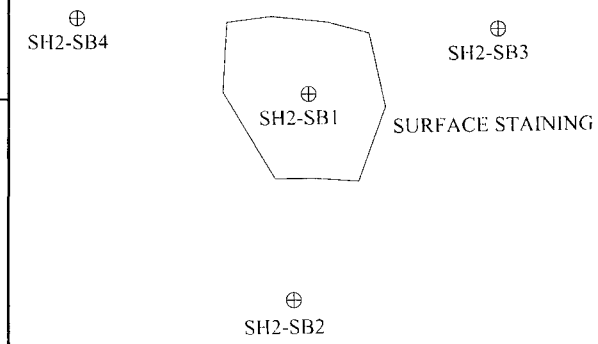
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/25/06

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						
	100		0.0	SH2-SB4-2	Sand, tan, fine grained, well sorted, rounded, dry.	No odor No Staining
2					Sand, pink, fine grained, well sorted, rounded, dry.	No odor No Staining
4	100		0.0	SH2-SB4-5		
6					Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No odor No Staining
8						
10	100		0.0	SH2-SB4-10		No odor No Staining
12					Sand, pink, fine grained, well sorted, rounded, with caliche.	
14	100		0.0	SH2-SB4-15		No odor No Staining
16					Sand, pink, fine grained, well sorted, rounded, dry, with caliche.	
18						
20	100		0.0	SH2-SB4-20		No odor No Staining
22					TD= 20'	
24						
26						
28						
30						
32						
34						
36						
38						
40						