1R - 471

# WORK PLAN

# DATE:

JULY, 2006



1R - 47 Work Man July, 2006

July 24, 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 – Rocky Top #1 Site Remediation Work Plan Clay Osborn Ranch – Jalmat #22B and TM 0245-2 Site Remediation Plan Jal, Lea County, New Mexico

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

Plains Marketing GP Inc., General Partner 333 Clay Street, Suite 1600 (77002) 🗱 P.O. Box 4648 🗮 Houston, Texas 77210-4648 🗮 713/646-4100

JUL 20 2006

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

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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

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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 SW<sup>1</sup>/<sub>4</sub> SW <sup>1</sup>/<sub>4</sub> 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<sup>2</sup>. 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.

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 resealed 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

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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.

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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 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

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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

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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 20mil 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 The buffer extent will be determined using a calibrated PID and excavation. 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 bas 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

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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<sup>®</sup> detergent and rinsed with distilled water.

#### Laboratory Protocol

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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.

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- 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. Ed Martin 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

Copy 6: Kenneth Cody SDG Environmental Services 6611 Vialinda, Suite 204 Houston, Texas 77083 kcody@sdgenv.com TABLE 1

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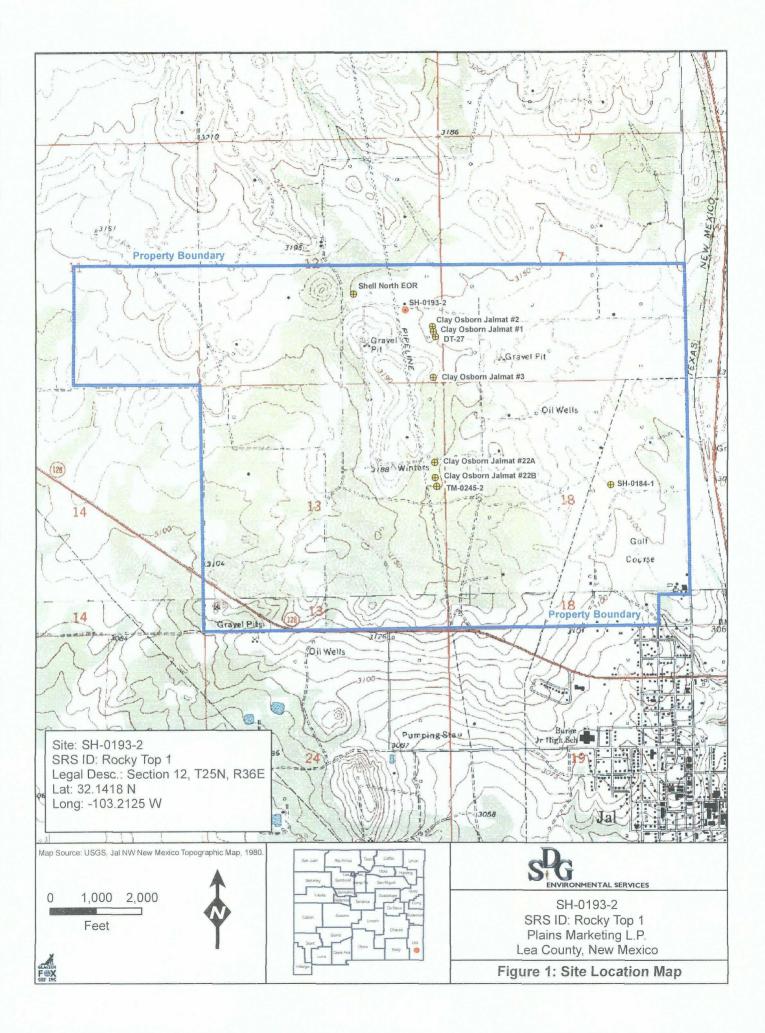
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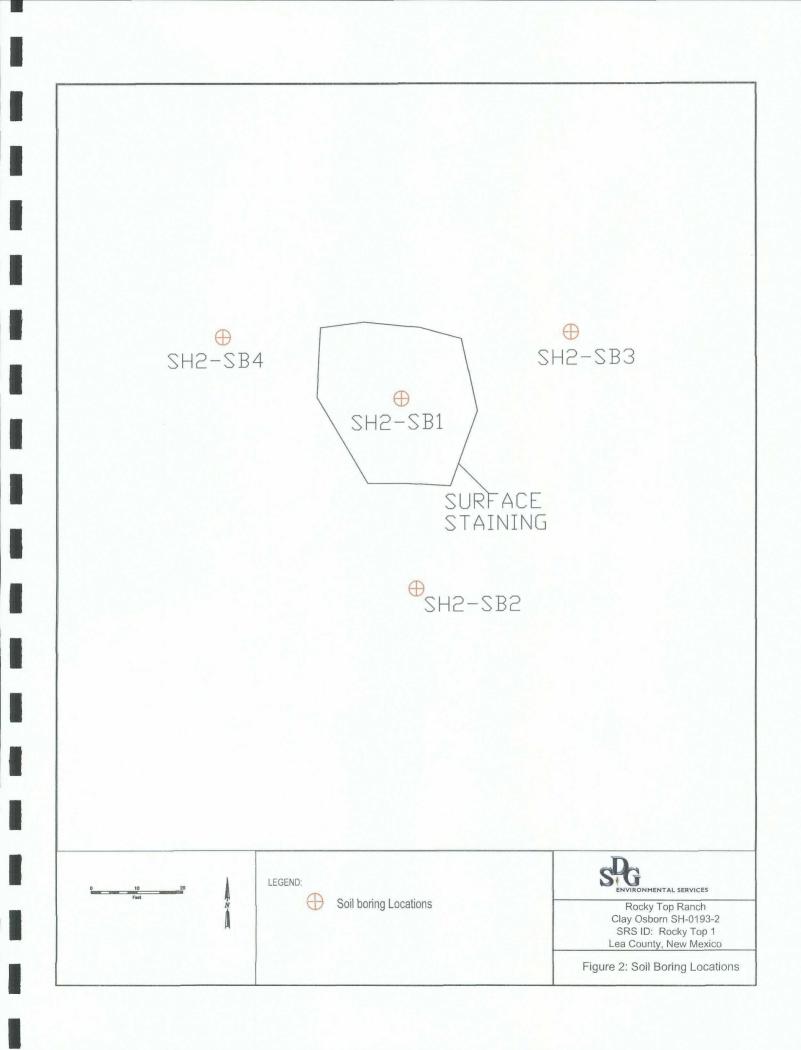
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SH2-SB1-10 SH2-SB1-10 SH2-SB1-15 SH2-SB1-20 SH2-SB1-25	H2-SB2-2 H2-SB2-5 H2-SB2-10 H2-SB2-15 H2-SB3-2 H2-SB3-2 H2-SB3-15 H2-SB3-15 H2-SB3-15 H2-SB3-15 H2-SB3-15 H2-SB3-15	H2:SB2-2 H2:SB2-5 H2:SB2-10 H2:SB2-15 H2:SB2-15 SH2:SB3-2 SH2:SB3-5 SH2:SB3-10 SH2:SB3-16 SH2:SB3-10 SH2:SB3-20 SH2:SB4-2 SH2:SB4-2	SH2:SB2:2 SH2:SB2:5 SH2:SB2:5 SH2:SB2:10 SH2:SB2:15 SH2:SB3:20 SH2:SB3:10 SH2:SB3:10 SH2:SB3:10 SH2:SB3:20 SH2:SB4:2 SH2:SB4:10 SH2:SB4:10 SH2:SB4:10 SH2:SB4:10
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2'         05/25/06         6E26004-17         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250         <0.0250 <th< td=""><td>3         U3/25/06         05</td><td>15' 05/25/06 6E26004-20 &lt;0.0250 &lt;0.0250 &lt;0.0250 &lt;0.0250 &lt;0.0250 &lt;0.0250 &lt;0.0250 &lt;10 &lt;10</td><td></td></th<>	3         U3/25/06         05	15' 05/25/06 6E26004-20 <0.0250 <0.0250 <0.0250 <0.0250 <0.0250 <0.0250 <0.0250 <10 <10	

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





	H2-SB4     H2-SB1     SURFACE       SH2-SB1     SURFACE       SH2-SB2	H2-SB3 2-5 ft
010 Fest	2 LEGEND: Soil boring Locations	ENVIRONMENTAL SERVICES ENVIRONMENTAL SERVICES Rocky Top Ranch Clay Osborn SH-0193-2 SRS ID: Rocky Top 1 Lea County, New Mexico Figure 3: Estimated Excavation Area

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#### APPENDIX A SITE PHOTOGRAPHS

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#### APPENDIX B ENVIRONMENTAL LABORATORY OF TEXAS ANALYTICAL RESULTS

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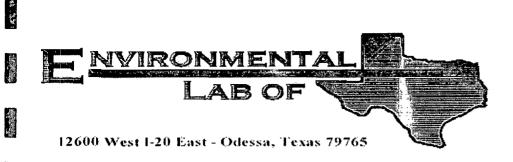
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### Analytical Report

#### Prepared for:

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

Project: 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 1301 S. County Road 1150 Midland TX, 79706-4476	301 S. County Road 1150 Project Number: Rocky Top 1											
ANALYTICAL REPORT FOR SAMPLES												
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Receive								
SH2-SB1-2	6E26004-01	Soil	05/25/06 09:00	05/26/06 09:								
SH2-SB1-5	6E26004-02	Soil	05/25/06 09:05	05/26/06 09:								
SH2-SB1-10	6E26004-03	Soil	05/25/06 09:10	05/26/06 09:								
SH2-SB1-15	6E26004-04	Soil	05/25/06 09:15	05/26/06 09:								
SH2-SB1-20	6E26004-05	Soil	05/25/06 09:20	05/26/06 09:								
SH2-SB1-25	6E26004-06	Soil	05/25/06 09:30	05/26/06 09:								
SH2-SB2-2	6E26004-07	Soil	05/25/06 09:45	05/26/06 09:								
SH2-SB2-5	6E26004-08	Soil	05/25/06 09:50	05/26/06 09:								
SH2-SB2-10	6E26004-09	Soil	05/25/06 09:55	05/26/06 09:								
SH2-SB2-15	6E26004-10	Soil	05/25/06 10:00	05/26/06 09:								
SH2-SB2-20	6E26004-11	Soit	05/25/06 09:55	05/26/06 09								
SH2-SB3-2	6E26004-12	Soil	05/25/06 11:00	05/26/06 09:								
SH2-SB3-5	6E26004-13	Soil	05/25/06 11:05	05/26/06 09								
SH2-SB3-10	6E26004-14	Soil	05/25/06 11:10	05/26/06 09:								
SH2-SB3-15	6E26004-15	Soil	05/25/06 11:15	05/26/06 09:								
SH2-SB3-20	6E26004-16	Soil	05/25/06 11:20	05/26/06 09:								
SH2-SB4-2	6E26004-17	Soil	05/25/06 11:35	05/26/06 09								
SH2-SB4-5	6E26004-18	Soil	05/25/06 11:40	05/26/06 09								
SH2-SB4-10	6E26004-19	Soil	05/25/06 11:45	05/26/06 09								
SH2-SB4-15	6E26004-20	Soil	05/25/06 11:50	05/26/06 09								
SH2-SB4-20	6E26004-21	Soil	05/25/06 11:55	05/26/06 09:								

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

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#### Project: SH-0193-2 Project Number: Rocky Top I Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
SH2-SB1-2 (6E26004-01) Soil		3,, 011Q	0.00	Diffution	Datti	ricparcu	Audiyzed		
Benzene	ND	0.0250	mg/kg dry	25	EF60224	06/02/06	06/03/06	EPA 8021B	
Toluene	ND	0.0250	u u u u u u	2.5	EF00224	00/02/00			
Ethylbenzene		0.0250	*						
Xylene (p/m)	ND ND	0.0250				**		55	
Xylene (p)		0.0250						14	
	ND		,	20					
Surrogate: a.a.a-Trifluorotoluene		88.2 %	80-1		"	"	"		
Surrogate: 4-Bromofluorobenzene		100 %	80-1						
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		"	u	u	р		
Carbon Ranges C28-C35	43.8	10.0		"	*1	п			
Total Hydrocarbon nC6-nC35	263	10.0		"	"	u	"		
Surrogate: 1-Chlorooctane		96.6 %	70-1		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.8 %	70-1	30	u.	"	11	"	
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		"	u.	U	"	U.	
Ethylbenzene	ND	0.0250			U		"	"	
Xylene (p/m)	ND	0.0250	"		н	0	"		
Xylene (o)	ND	0.0250				н			
Surrogate: a.a.a-Trifluorotoluene		89.5 %	80-1	20	"	"	<i>11</i>	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	L	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	182	10.0	"	"		"	0		
Carbon Ranges C28-C35	39.3	10.0	"	"		"			
Total Hydrocarbon nC6-nC35	221	10.0				п	0	U .	
Surrogate: 1-Chlorooctane		129 %	70-1	30		"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-1	30	"	"	"	"	
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			54		"	п	
Xylene (p/m)	ND	0.0250	u	"		п	**		
Xylene (o)	ND	0.0250		"	ч	-11	**		
Surrogate: a.a.a-Trifluorotoluene		86.0 %	80-1	20			"		
Surrogate: 4-Bromofluorobenzene		105 %	80-1		"	.,	"		
Carbon Ranges C6-C12	ND		mg/kg dry	I	EE63029	05/30/06	05/31/06	EPA 8015M	
Environmental Lab of Texas							alvzed in accorde		

Plains All American EH & S			Project: SH-	0193-2				Fax: (432)	687-4914
1301 S. County Road 1150		Project N	lumber: Roc	ky Top 1				Reported:	
Midland TX, 79706-4476	<u> </u>	Project M	anager: Car	nille Reync	olds			06/07/0	6 11:08
			rganics b						
		Environ	mental L	ab of Te	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SH2-SB1-10 (6E26004-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	I	EE63029	05/30/06	05/31/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"		"	"		'n	
Total Hydrocarbon nC6-nC35	ND	10.0	н	u	"	*1	н	u	
Surrogate: 1-Chlorooctane		101 %	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		95.4 %	70-1	30	"	"	"	<i>n</i>	
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	"		н		**	ы	
Ethylbenzene	ND	0.0250	"	н		"		"	
Xylene (p/m)	ND	0.0250	**		u.	ч	"	"	
Xylene (o)	ND	0.0250	*1	"		"		"	
Surrogate: a.a.a-Trifluorotoluene		89.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-1	20	"	"	"	а	
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	"		a			11	
Carbon Ranges C28-C35	ND	10.0				"	"	0	
Total Hydrocarbon nC6-nC35	ND	10.0	n	0			0	u.	
Surrogate: 1-Chlorooctane		123 %	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		114 %	70-1	30	"	"	"	"	
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	41			"	11	и	
Ethylbenzene	ND	0.0250	"			"	"	ч	
Xylene (p/m)	ND	0.0250	**			н			
Xylene (0)	ND	0.0250				"	"	п	
Surrogate: a.a.a-Trifluorotoluene		83.8 %	80-1	20	"	n	"	'n	
Surrogate: 4-Bromofluorobenzene		94.5 %	80-1	20	"	"	"	"	
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	ы	"		**	"	19	
Carbon Ranges C28-C35	ND	10.0	n		"	"		н	
Fotal Hydrocarbon nC6-nC35	ND	10.0	n .	"	"	п	н		
Surrogate: 1-Chlorooctane		97.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70-1	30	<i>n</i>	"	п	"	

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476		Project N	Project: SH- lumber: Roc anager: Can	ky Top 1	lds			Fax: (432) 687-4914 Reported: 06/07/06 11:08		
· · · · · · · · · · · · · · · · · · ·		Oı	rganics by	GC GC						
		Environ	mental La	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
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	ч	н		н	"	u		
Ethylbenzene	ND	0.0250	**	11			п	"		
Xylene (p/m)	ND	0.0250	"	**		"	"	**		
Xylene (0)	ND	0.0250		14	n			"		
Surrogate: a.a.a-Trifluorotoluene		92.0 %	80-1	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		88.8 %	80-1	20	"	"	"	"		
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	t	EE63114	05/31/06	06/01/06	EPA 8015M		
Carbon Ranges C12-C28	ND	10.0		"	17	**				
Carbon Ranges C28-C35	ND	10.0	"	р	n					
Total Hydrocarbon nC6-nC35	ND	10.0	**			"	"			
Surrogate: 1-Chlorooctane		129 %	70-1.	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		128 %	70-1.	30	"	"	"	"		
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	"		н	п	"	"		
Ethylbenzene	ND	0.0250			<i>n</i>	"	"			
Xylene (p/m)	ND	0.0250			u.	ч		"		
Xylene (0)	ND	0.0250	"		u -	"	u	"		
Surrogate: a.a.a-Trifluorotoluene		90.0 %	80-1.	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1.	20	"	"	"	"		
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	u	"		-11		п		
Total Hydrocarbon nC6-nC35	ND	10.0		"	"	"	"	"		
Surrogate: 1-Chlorooctane		124 %	70-1.	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		121 %	70-1.	30	п	"	"	n		
SH2-SB2-5 (6E26004-08) Soil										
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	EPA 8021B		
Foluene	ND	0.0250	"		н					
7.1 11	ND	0.0250								
Ethylbenzene	ND	0.0250								

Surrogate: 4-Bromofluorobenzene Carbon Ranges C6-C12

Environmental Lab of Texas

Surrogate: a.a.a-Trifluorotoluene

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety.

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with written approval of Environmental Lab of Texas.

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EPA 8015M

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80-120

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90.5 %

97.8 %

10.0 mg/kg dry

ND

ND

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476		Project N	Project: SH- lumber: Roc anager: Car	ky Top I	lds			Fax: (432) 687-4914 <b>Reported:</b> 06/07/06 11:08		
	ų		rganics b							
	· · · · · · · · · · · · · · · · · · ·	Environ	mental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
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		"		u	"	u		
Total Hydrocarbon nC6-nC35	ND	10.0		u.	"	**	п	**		
Surrogate: 1-Chlorooctane		83.8 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		88.2 %	70-1	30	п	"	"	"		
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	"	"		н	"			
Ethylbenzene	ND	0.0250	"	"		u				
Xylene (p/m)	ND	0.0250			и	н				
Xylene (0)	ND	0.0250		"			*1	54		
Surrogate: a,a.a-Trifluorotoluene		80.5 %	80-1	20	"	"	"			
Surrogate: 4-Bromofluorobenzene		90.0 %	80-1	20	"	"	"	"		
Carbon Ranges C6-C12	ND	10.0	mg/kg diy	I	EE63113	05/31/06	06/01/06	EPA 8015M		
Carbon Ranges C12-C28	ND	10.0		н	"	**	"	**		
Carbon Ranges C28-C35	ND	10.0	**	и	"	**				
Total Hydrocarbon nC6-nC35	ND	10.0	**	U.	"	"		11		
Surrogate: 1-Chlorooctane		93.4 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		95.2 %	70-1		"	"	"	"		
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				н		*1		
Ethylbenzene	ND	0.0250	п				0	11		
Xylene (p/m)	ND	0.0250						**		
Xylene (0)	ND	0.0250				u.	"	u		
Surrogate: a.a.a-Trifluorotoluene		82.2 %	80-1	20	n	"		0		
Surrogate: 4-Bromofluorobenzene		90.0 %	80-1	20	"	"	"	n.		
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	ш	"		ц	u	11		
Carbon Ranges C28-C35	ND	10.0	u	"		ч	п	14		
Total Hydrocarbon nC6-nC35	ND	10.0		"				11		
Surrogate: 1-Chlorooctane		89.0 %	70-1	30	11	"	"	ų		
Surrogate: 1-Chlorooctadecane		90.6 %	70-1		"	"	"	"		

Environmental Lab of Texas

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

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#### Project: SH-0193-2 Project Number: Rocky Top 1 Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 06/07/06 11:08

#### Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Dat-1	Durne 1	المستعدية	N.S. al 3	×1 -
SH2-SB2-20 (6E26004-11) Soil			Units	Dilution	Batch	Prepared	Analyzed	Method	Not
		0.0250	a 1.		55/0005	0.000.000		EDA 86210	
Benzene Toluene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	EPA 8021B "	
	ND	0.0250	11						
Ethylbenzene Notese (nt. )	ND	0.0250						"	
Xylene (p/m)	ND	0.0250			D				
Xylene (0)	ND	0.0250							
Surrogate: a.a.a-Trifluorotoluene		86.5 %	80-1		"	"	"	п	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-1	20	"	"	"	"	
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		**	11	11	"		
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"		
Total Hydrocarbon nC6-nC35	ND	10.0	**	"	"	**	"	u	
Surrogate: 1-Chlorooctane		89.0 %	70-1	30	"	и	"	"	
Surrogate: 1-Chlorooctadecane		91.0 %	70-1	30	"	"	"	"	
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	"	"	н	"	**	u .	
Ethylbenzene	ND	0.0250				п	"	н	
Xylene (p/m)	ND	0.0250		"	н		"	u	
Xylene (o)	ND	0.0250		"	н	п			
Surrogate: a.a.a-Trifluorotoluene		81.2 %	80-1	20	"	"			
Surrogate: 4-Bromofluorobenzene		84.0 %	80-1	20	"	"	"		
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	"	"		и	"		
Carbon Ranges C28-C35	30.6	10.0	"	"		u	u		
Fotal Hydrocarbon nC6-nC35	186	10.0		**	**		"		
Surrogate: 1-Chlorooctane		90.2 %	70-1	30	"	и	"		
Surrogate: 1-Chlorooctadecane		92.2 %	70-1	30	"	п	"	11	
SH2-SB3-5 (6E26004-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/03/06	EPA 8021B	
Foluene	ND	0.0250	"				11	**	
Ethylbenzene	ND	0.0250		14	μ	u	п	"	
Xylene (p/m)	ND	0.0250		u	"	"			
Xylene (o)	ND	0.0250		**		н	"	"	
Surrogate: a.a.a-Trifluorotoluene		84.8 %	80-1	20	л	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	80-1	20	9	"	"	"	
Carbon Ranges C6-C12	ND		mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476		Project N	Project: SH- lumber: Roc anager: Can	ky Top∣	olds			Fax: (432) 687-4914 <b>Reported:</b> 06/07/06 11:08	
		O	rganics b	y GC					
		Environ	mental L	ab of Te	exas			- Martine and	
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
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		н		**		п	
Total Hydrocarbon nC6-nC35	ND	10.0		"	"	"	п		
Surrogate: 1-Chlorooctane	~~~	86.4 %	70-1	30	n	"	"	"	
Surrogate: 1-Chlorooctadecane		89.0%	70-1	30	"	ņ	"	"	
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 (0)	ND	0.0250	.,	"		"	**		
Surrogate: a.a.a-Trifluorotoluene		81.2 %	80-1	20	"	"	"	и	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-1	20	• "	"	"		
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	"		"	"	u	"	
Total Hydrocarbon nC6-nC35	ND	10.0		"			u	U U	
Surrogate: 1-Chlorooctane		91.2 %	70-1	30	n	"	"	"	
Surrogate: 1-Chlorooctadecane		93.6 %	70-1	30	"	"	n	"	
SH2-SB3-15 (6E26004-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/04/06	EPA 8021B	
Foluene	ND	0.0250	"	"	"		U		
Ethylbenzene	ND	0.0250	"	"	"	н			
Xylene (p/m)	ND	0.0250	"	"	"	"			
Xylene (o)	ND	0.0250	"		"		D	**	
Surrogate: a.a.a-Trifluorotoluene		91.5 %	80-1		"	"	"	н.,	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND		mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"		"	.,	"	Ð	
Carbon Ranges C28-C35	ND	10.0			"		"	"	
Fotal Hydrocarbon nC6-nC35	ND	10.0	"		**		"	11	
Surrogate: 1-Chlorooctane		88.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.8 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

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Fax: (432) 687-4914 Plains All American EH & S Project: SH-0193-2 1301 S. County Road 1150 Project Number: Rocky Top 1 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	Dilutio	Datat	Duon	Angle#	Maihed	×1 -
SH2-SB3-20 (6E26004-16) Soil		LUOU	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
	× 105	0.0020		25	EE(0226	0(10210)	00101/07	EPA 8021B	
Benzene Toluene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/04/06	EPA 8021B	
	ND	0.0250				**	"	"	
Ethylbenzene Yulana (n/m)	ND	0.0250				"			
Xylene (p/m) Xylene (o)	ND	0.0250 0.0250					"	12	
	ND			120				"	
Surrogate: a.a.a-Trifluorotoluene		83.8 % 82.0 %	80-1 80-1		"			"	
Surrogate: 4-Bromofluorobenzene				20				." ЕРА 8015М	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry "		EE63113	05/31/06	06/01/06	EFA 80151M	
Carbon Ranges C12-C28 Carbon Ranges C28-C35	ND	10.0 10.0						п	
Total Hydrocarbon nC6-nC35	ND	10.0				11		ш	
	ND		70			"			
Surrogate: 1-Chlorooctane		91.0%	70-1		"	"			
Surrogate: 1-Chlorooctadecane		94.4 %	70-1	30	n	"	"	"	
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	"	"		н	"	"	
Ethylbenzene	ND	0.0250	"	"	"		н	"	
Xylene (p/m)	ND	0.0250	"		"	и	"	33	
Xylene (o)	ND	0.0250	٣		п		11	"	
Surrogate: a.a.a-Trifluorotoluene		86.5 %	80-1	20		11	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-1	20	"	"	"	"	
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	u	**		11			
Surrogate: 1-Chlorooctane		92.6 %	70-1	30	"	"	"	11	
Surrogate: 1-Chlorooctadecane		. 95.6%	70-1	30	"	"	"	n	
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	н		u		"		
Ethylbenzene	ND	0.0250	11		"			"	
Xylene (p/m)	ND	0.0250	"		и		"	n	
Xylene (0)	ND	0.0250		u	"	"	**	"	
Surrogate: a.a.a-Trifluorotoluene		81.2 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63113	05/31/06	06/01/06	EPA 8015M	

Environmental Lab of Texas

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Reported:

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476		Project N	Project: SH- lumber: Roc lanager: Cam	ky Top 1	olds			Fax: (432) 6 <b>Report</b> 06/07/06	ed:
			rganics by mental La		VAC				
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SH2-SB4-5 (6E26004-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	l	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"		"	"	н		
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"		"	"	
Surrogate: 1-Chlorooctane		90.0 %	70-1.	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		92.8 %	70-1.	30	"	"	"	"	
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	"			17	ш		
Xylene (o)	ND	0.0250	**		"	"	U		
Surrogate: a.a.a-Trifluorotoluene		89.5 %	80-1.	20	"	· "	"	n	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-1		"	"	"	. "	
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	u		"		"	"	
Carbon Ranges C28-C35	ND	10.0	"			"	"		
Total Hydrocarbon nC6-nC35	ND	10.0				**	"		
Surrogate: 1-Chlorooctane		91.2 %	70-1.	30	7	"	"	"	
Surrogate: 1-Chlorooctadecane		92.8 %	70-1.	30	"	л	"	"	
SH2-SB4-15 (6E26004-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/04/06	EPA 8021B	
Foluene	ND	0.0250	"			11		11	
Ethylbenzene	ND	0.0250	"			u		11	
Xylene (p/m)	ND	0.0250	ч			11		**	
Xylene (o)	ND	0.0250	"	"		11		"	
Surrogate: a.a.a-Trifluorotoluene		80.8 %	80-12	20	"	<i>n</i>	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	80-12	20	"	п	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	l	EE63113	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0			**	"	"	*5	
Carbon Ranges C28-C35	ND	10.0				**	"		
Fotal Hydrocarbon nC6-nC35	ND	10.0	н	ч	"	"	"	н	
Surrogate: 1-Chlorooctane		83.2 %	70-1.	30	n	"	"	"	
Surrogate: 1-Chlorooctadecane		86.6 %	70-13	30	"	"	"	"	

Environmental Lab of Texas

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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-SB4-20 (6E26004-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60225	06/02/06	06/04/06	EPA 8021B	
Toluene	ND	0.0250	"		н	"	u	"	
Ethylbenzene	ND	0.0250			"		"		
Xylene (p/m)	ND	0.0250		"			"		
Xylene (o)	ND	0.0250	н		"	п	"		
Surrogate: a.a.a-Trifluorotoluene		88.8 %	80-1	20	"	11	"	n n	
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	"	"	"	"	
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	н	"	U	u .		"	
Carbon Ranges C28-C35	ND	10.0	"		"	"	"		
Total Hydrocarbon nC6-nC35	ND	10.0	ч		"		п		
Surrogate: 1-Chlorooctane		90.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.0 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

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#### Project: SH-0193-2 Project Number: Rocky Top 1 Project Manager: Camille Reynolds

**Reported:** 06/07/06 11:08

	General Che	mistry Paraı Environn		-		rd Method	\$		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Ducucus d	Anolugad	Method	Note
SH2-SB1-2 (6E26004-01) Soil	Result		oints	Ditution	Daten	Prepared	Analyzed		Note
% Moisture	14.1	0.1	%	 I	EE62901	05/26/06	05/27/06	% calculation	* !!
SH2-SB1-5 (6E26004-02) Soil									
% Moisture	3.0	0.1	%	I	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	%	I	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-2 (6E26004-07) Soil									
% Moisture	3.3	0.1	%	I	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-5 (6E26004-08) Soil									
% Moisture	5.3	0.1	%	ł	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	%	]	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB2-20 (6E26004-11) Soil									
% Moisture	16.9	0.1	%	ł	EE62901	05/26/06	05/27/06	% calculation	

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#### Project: SH-0193-2 Project Number: Rocky Top 1 Project Manager: Camille Reynolds

**Reported:** 06/07/06 11:08

	General Che	mistry Para	meters	by EPA /	Standa	rd Methoo	ls		
		Environn	nental I	Lab of Te	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
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	%	ł	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	%	l	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-5 (6E26004-18) Soil									
% Moisture	1.8	0.1	%	ŀ	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-10 (6E26004-19) Soil									
% Moisture	5.6	0.1	%	I	EE62901	05/26/06	05/27/06	% calculation	
SH2-SB4-15 (6E26004-20) Soil									
% Moisture	2.6	0.1	%	I	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	

Environmental Lab of Texas

Fax: (432) 687-4914 Reported: 06/07/06 11:08		
RPD Limit	Notes	

Environmental Lab of Texas

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Plains All American EH & S 1301 S. County Road 1150		Project N	Project: SH umber: Roo	cky Top 1					Fax: (432) <b>Repo</b>	rted:
Midland TX, 79706-4476		Project Ma	anager: Car	nille Reynol	ds				06/07/0	6 11:08
	Or	ganics by	y GC - Q	uality Co	ontrol					
		Environ	mental L	ab of Te	kas					·
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)	Sour	ce: 6E26003	3-08	Prepared: 0	)5/30/06 A	nalyzed: 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-Chlorooctadevane	61.3		п	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	п							
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		п	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			
Fotal 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: (	)5/31/06 A	nałyzed: 06	/01/06			
Carbon Ranges C6-C12	249		mg/kg	250		99.6	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
	507			500		101	80-120			
Fotal Hydrocarbon nC6-nC35	507			500		101	00-120			

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

Page 14 of 21

Plains All American EH & S		r	Project: SH-	0193-2					Fax: (432)	687-4914	
1301 S. County Road 1150			umber: Roc						Repo	rtad	
Midland TX, 79706-4476			anager: Car		ds				06/07/06 11:08		
	Or	ganics by	 / GC - O	uality Co	 ontrol				<u> </u>		
		Environ		-							
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)	Sour	ce: 6E26004	-08	Prepared &	k 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	н	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)	Sour	ce: 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: (	)5/31/06 A	nalyzed: 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		n	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				

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Plains All American EH & S		]	Project: SH-	-0193-2					Fax: (432)	687-4914
1301 S. County Road 1150		Project N	umber: Roc	ky Top 1					Repo	
Midland TX, 79706-4476		Project Ma	anager: Car	nille Reynol	ds				06/07/0	6 11:08
	0	rganics by		-						
	<u></u>	Environ	mental L	ab of Tex	kas —					
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: (	)5/31/06 A	nalyzed: 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)	Sou	Prepared: (	)5/31/06 A	nalyzed: 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	11	0.00	ND		75-125			
Fotal 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)	Sou	rce: 6E26006	i-0 <b>3</b>	Prepared: (	)5/31/06 A	nalyzed: 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	
Fotal 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			
ŝurrogate: 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	"							
Nylene (0)	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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Plains All American EH & S			Project: SH-						Fax: (432)	687-4914
1301 S. County Road 1150			umber: Roc						Repo	rted :
Midland TX, 79706-4476		Project Ma	anager: Car	nille Reynol	ds				06/07/06	5 11:08
	0	rganics by	-	-						
		Environ	mental L	ab of Te	xas			·		
		Reporting		Spike	Source		%REC	555	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF60224 - EPA 5030C (GC)										<u></u>
LCS (EF60224-BS1)				Prepared: (	)6/02/06 A	nalyzed: 06	5/03/06			
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	U II	1.25		92.8	80-120			
Xylene (p/m)	2.54	0.0250	"	2.50		102	80-120			
Nylene (0)	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		л	40.0		112	80-120			
Calibration Check (EF60224-CCV1)				Prepared: (	)6/02/06 A	nalyzed: 06	5/03/06			
Benzene	44.4		ug/kg	50.0		88.8	80-120			
Foluene	41.6		ч	50.0		83.2	80-120			
Ethylbenzene	46.6			50.0		93.2	80-120			
Nylene (p/m)	90.2			100		90.2	80-120			
Xylene (0)	45.3		и	50.0		90.6	80-120			
Surrogate: a.a.a-Trifluorotoluene	33.8		п	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120			
Matrix Spike (EF60224-MS1)	Sou	rce: 6E26004	1-05	Prepared: (	)6/02/06 A	nalyzed: 06	5/03/06			
Benzene	1.20	0.0250	mg/kg dry	1.36	ND	88.2	80-120			
Foluene	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 (0)	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)	Sou	rce: 6E26004	1-05	Prepared: (	)6/02/06 <u>A</u>	nalyzed: 06	6/03/06			
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	*1	2.71	ND	99.6	80-120	5.26	20	
Xylene (o)	1.30	0.0250	11	1.36	ND	95.6	80-120	3.95	20	
Surrogate: a.a.a-Trifluorotoluene	37.0		ug kg	<i>40.0</i>		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.7		"	40.0		112	80-120			

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

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Plains All American EH & S			roject: SH						Fax: (432)	687-4914
1301 S. County Road 1150 Midland TX, 79706-4476			umber: Roo mager: Car	cky Top I nille Reynol	ds				Repo 06/07/0	
	0	rganics by	<u>, CC - O</u>	uality Co	ntrol	<u> </u>				<u></u>
	0	Environr	-	•						
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: (	)6/02/06 A	.nalyzed: 06	5/03/06			
Benzene	ND	0.0250	mg/kg wet							
Foluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Nylene (p/m)	ND	0.0250	"							
Nylene (o)	ND	0.0250	и							
Surrogate: a,a.a-Trifluorotoluene	35.2		ug kg	40.0		88.0	80-720			
Surrogate: 4-Bromofluorobenzene	39.2		"	40,0		98.0	80-120			
LCS (EF60225-BS1)				Prepared: (	)6/02/06 A	.nalyzed: 06	5/03/06			
Benzene	1.09	0.0250	mg/kg wet	1.25		87.2	80-120			
foluene	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 (0)	1.22	0.0250		1.25		97.6	80-120			
Surrogate: a.a.a-Trifluorotoluene	38.6		ng kg	40.0		96.5	80-720		- <u></u>	
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			
Calibration Check (EF60225-CCV1)				Prepared: (	)6/02/06 A	nalyzed: 06	5/04/06			
Benzene	40.6		ug/kg	50.0		81.2	80-120			
Foluene	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			
(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)	Sou	rce: 6E26004	-06	Prepared: (	)6/02/06 A	nalyzed: 06	5/04/06			
Benzene	1.02	0.0250	mg/kg dry	1.27	ND	80.3	80-120			
Foluene	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 (0)	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			

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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 - Quality Control

### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Linit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

### Batch EF60225 - EPA 5030C (GC)

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Matrix Spike Dup (EF60225-MSD1)	Sour	ce: 6E26004	1-06	Prepared: 0	6/02/06 A	nalyzed: 0	6/04/06		
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	н	1.27	ND	89.8	80-120	4.56	20
Xylene (p/m)	2.45	0.0250	0	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		

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**Reported:** 06/07/06 11:08

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas** %REC RPD Reporting Spike Source Result RPD Analyte Result Limit Units Level %REC Limits Limit Notes Batch EE62901 - General Preparation (Prep) Prepared: 05/26/06 Analyzed: 05/30/06 Blank (EE62901-BLK1) % 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: 6E	26001-41	Prepared: 05/26/06	Analyzed: 05/27/06		
% Solids	99.1	%	99.1		0.00	20
Duplicate (EE62901-DUP4)	Source: 6E	26001-61	Prepared: 05/26/06	Analyzed: 05/27/06		
% Solids	75.2	%	76.2		1.32	20
Duplicate (EE62901-DUP5)	Source: 6E	26003-07	Prepared: 05/26/06	Analyzed: 05/27/06		
% Solids	98.0	%	98.3		0.306	20
Duplicate (EE62901-DUP6)	Source: 6E	26004-07	Prepared: 05/26/06	Anałyzed: 05/27/06		
% Solids	97.9	%	96.7		1.23	20
Duplicate (EE62901-DUP7)	Source: 6E	26005-06	Prepared: 05/26/06	Analyzed: 05/27/06		
% Solids	99.3	%	99.5		0.201	20
Duplicate (EE62901-DUP8)	Source: 6E	26008-04	Prepared: 05/26/06	Analyzed: 05/27/06		
% Solids	98.6	9%	91.7		7.25	20

Environmental Lab of Texas

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

Fax: (432) 687-4914 Project: SH-0193-2 Plains All American EH & S Project Number: Rocky Top 1 1301 S. County Road 1150 **Reported:** 06/07/06 11:08 Midland TX, 79706-4476 Project Manager: Camille Reynolds **Notes and Definitions** J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Analyte DETECTED DET 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:

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Raland Kertus Date:

6/7/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

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**39**人 188

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

Client: Plains P/L 
 Date/Time:
 06-26-06 @ 0934

 Order #:
 6E26004

Initials: JMM

ð:

Sec. Sec.

## Sample Receipt Checklist

t Checklist	
(es) No	IS CI
Res No	
(Yes) No	Not present
Yes No	(Not present )
(es No	
TES NO	
(Pes) No	
(Yes) No	
(YES) NO	· · · · · · · · · · · · · · · · · · ·
(res) No	
(Yes) No	· · · ·
Ves No	
(YES) NO	
(es) No	
(res) No	
(es No	
(Tes) NO	
(Yes ) No	Not Apolicable
	(es)       No         (es)       No         (es)       No         Yes       No         (es)       No

Other observations: 

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:
Corrective Action Taken:		
		· · · · · · · · · · · · · · · · · · ·

# APPENDIX C SOIL BORING LOGS

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		( 				ENTAL SERVICES		⊕ SH2-SB3
			IBER <u>s</u>			LOCATION Jal, N.M.	SH2-SB1 SUI	RFACE STAINING
						OREHOLE DIA (in) 8.25"		
						DRILLING METHOD HSA		
						DATE DRILLED 5/25/06	$\oplus$	
тор о	F CAS	ING EL	LEV. (ft	)_ <u>N</u> //	4	_ GROUND SURFACE ELV. (ft)N/A	SH2-SB2	
	INTERVAL	RECOVERY %	DOJ	PlD (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS		REMARK
- 0 -	$\bigtriangledown$				CU 0	Sand, tan, fine grained, well sorted, rounded, damp.		No odor Stained
- 2 -	$\langle \rangle$	100		0.0	SH2- SB1-2	Sand, pink, fine grained, well sorted, rounded, dry.		No odor SIt Staining
								Sit Stoming
	$\langle - \rangle$	_100		13.7	SH2- SB1-5			No odor
6 -	$\left \right\rangle$					Sand, tan, fine grained, well sorted, rounded, dry, with some	e caliche .	No Staining
- 8 -	X							
<b>-</b>	$/ \setminus$	100		0.0	SH2			No odor
- 10 -	$\backslash$			0.0	SB1-10	Sand, pink, fine grained, well sorted, rounded, slightly damp.		No Staining
- 12 -	$\mathbf{V}$							
 - 14 -								
	$\longrightarrow$	100		0.0	SH2- SB1-15			No odor No Staining
- 16 -	$\backslash / \vert$					Sand, pink, fine grained, well sorted, rounded, dry, with some	e caliche.	
- 18 -	Å							
- 20 -		100		0.0	SH2- SB1-20			No odor
	$\setminus /$			0.0	20	Sand, pink, fine grained, well sorted, rounded, dry. with calic	he.	No Staining
22 -	X							
<b>-</b> 24 <b>-</b>	$/ \setminus$			0.0	SH2- SB1-25			No odor
		100	16224	0.0	SB1-25			No Staining
- 26 -					-	TD= 25'		
- 28 -								
- 30 -								
- <i>32</i> -								
- 34								
- 36 -								
- <u>38</u>					l			
- 40								

		de dejaŭijen (C		ħ			LOCATION MA	Р
				D È EN			TAL SERVICES	⊕ SH2-SB3
				BER <u>s</u>			SH2-SB1 / SU	RFACE STAININ
							LOCATION_Jal, N.M. BOREHOLE DIA (in) 8.25"	
							DRILLING METHOD HSA	
							DATE DRILLED 5/25/06	
	INTERVAL	CANDE E	SAMPLE RECOVERY %	DOJ	PID (ppm)		LITHOLOGIC DESCRIPTION/COMMENTS	REMARKS
- 0 - 							Sand, tan, fine grained, well sorted, rounded, dry.	No odor No Staining
- 2 -	$\leftarrow$	$\rightarrow$	100		0.0	SH2- SB2-2	Sand, pink, fine grained, well sorted, rounded, dry.	No odor No Staining
 - 4 -	1 🛛							No Staining
	$\left\{ - \right\}$	$\left.\right\rangle$	100		0.0	SH2 SB2-5		No odor
- 6 -  - 8 -							Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No Staining
		$\left  \right $	100		0.0	SH2- SB2-10		No odor No Staining
						002 10	Sand. pink, fine grained, well sorted, rounded, with caliche.	
- 12 -	] 🛛							
<b>-</b> 14	/ `		100		0.0	SH2- SB2-15		No odor
- 16 -	$\mathbf{\Lambda}$				0.0	282-12	Sand, pink, fine grained, well sorted, rounded, dry, with some caliche.	No Staining
	$\left \right\rangle$		100			SH2-		
- 20 -	/	1-	100		0.0	SH2- SB2-20	TD= 20'	No_odor No_Staining
- 22 -							15- 20	
 - 74 -								
╸╺								
- 26 -	1					1		
- 28 -	-							
 - 30 -								
- 30 -	]			ĺ				
= 32 =								
<b>-</b> 34 <b>-</b>	4							
- 36								
- 38 -  - 40 -								
- 40 -								

j) I SH

								LOCATION M	AP
				S			SH2-SB4		⊕ SH2-SB3
				4BER <u>S</u>				SH2-SB1	SURFACE STAINING
		ECT		<u>rock y</u> epth			LOCATION_Jal, N.M OREHOLE DIA (in) 8.25"		
				-			DRILLING METHOD HSA		
							DATE DRILLED 5/25/06		
							_ GROUND SURFACE ELV. (IÌ)N/A	⊕ SH2-SB2	
		INTERVAL	RECOVERY %	501	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS		REMARKS
ļ	- () - 					0.10	Sond, tan, fine grained, well sorted, rounded, dry.		No odor No Staining
	- 2 - 		100		0.0	SH2- SB3-2	Sand, pink, fine grained, well sorted, rounded, dry.		No odor No Staining
	• 6 • • 6 •		100		0.0	SH2 SB3-5	Sand, tan, fine grained, well sorted, rounded, dry, with some	caliche	No odor No Staining
•			100		0.0	SH2- SB3-10	Sand, pink, fine grained, well sorted, rounded, with caliche.		No odor No Staining
	12	۱Å	100		0.0	SH2- SB3-15			No odor No Staining
-	16 -		_100			SH2- SB3-20	Sand, pink, fine grained, well sorted, rounded, dry, with calich	1e.	No Stanning
•	- 20 -				0.0		D= 20'		No odor No Staining
	- 22 -	-							
	- 24 -								
•	26 -								
	• 28 • 30	4							
,	• •	4							
	• 32 • 34								
	36								
-	• 38								
	- ЮТ								

				n		LOCATION MA	Р
			S			MENTAL SERVICES	⊕ SH2-SB3
						SH2-SB1 / SU	RFACE STAININ
FOTAL						BOREHOLE DIA (in) 8.25"	
			-		_	DRILLING METHOD HSA	
						DATE DRILLED $5/25/06$	
TOP OF	CASI		LEV. (ft)	) <u>N/</u> /	4	_ GROUND SURFACE ELV. (ii) <u>N/A</u> SH2-SB2	
	INTERVAL	RECOVERY %	901	PID (ppm)	Sample	LITHOLOGIC DESCRIPTION/COMMENTS	REMARK
	$\checkmark$					Sand, tan, fine grained, well sorted, rounded, dry.	No odor No Staining
• 2 🕂	$\rightarrow$	100		0.0	SH2- SB4-2	Sand, pink, fine grained, well sorted, rounded, dry.	No odor
• 4 -	XI						No Stainine
⋰╺┽	$\rightarrow$	100		0.0	SH2- SB4-5		No odor
	$\backslash /  $					Sand, tan, fine grained, well sorted, rounded, dry, with some caliche	No Stainin
- 8 -	XI						
• • • • •	$\langle \rangle$	100		0.0	SH2-		No odor
				0.0	SB4-10	Sand, pink, fine grained, well sorted, rounded, with caliche.	No Stainin
•12 -	ΧI						
· 14 - /	$/ \setminus  $	100			SH2-		
·	$\rightarrow$	100		0.0	SB4-15	Sand, pink, fine grained, well sorted, rounded, dry, with caliche.	No odor No Stainin
	$\bigvee$					Sana, pink, nie granica, war solica, rodnaca, cry, with canona.	
18 -	$\wedge$						
20		100		0.0	SH2- SB4-20		No odor
• •				0.0		TD= 20'	No Stainin
22							
• 24							
26							
28							
30 -							
32 -							
-							
34 -							
36 -							
- 38 -							
•							
40 -							