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WORKPLANS

Date:

Feb. 2010

SOIL INVESTIGATION REPORT
AND
PROPOSED SOIL CLOSURE STRATEGY

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Environmental Bureau
Oil Conservation Division

SOUTH MONUMENT GATHERING SOUR

NW ¼, NE ¼, SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST
SOUTHWEST OF MONUMENT
LEA COUNTY, NEW MEXICO
SRS #: 2001-11193
NMOCD ID # 1R-0651

Prepared for:

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NOVA
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February 2010

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1.0 INTRODUCTION AND SITE BACKGROUND

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) has prepared this Soil Investigation Report and Proposed Soil Closure Strategy for the site known as South Monument Gathering Sour (EMS # 2001-11193). The site is now the responsibility of Plains, which acquired the assets of Link Energy in April 2004.

On November 20, 2001, EOTT Energy, Corp.(EOTT) reported a 1200 barrel release of sour crude oil from a pipeline located approximately one half mile southwest of Monument, New Mexico. The site is located in the NW ¼ NE ¼ , Section 5, Township 20 South, Range 37 East, Lea County, New Mexico. The initial response was conducted by Allstate Environmental Services (AES) in November 2001. According to AES's *Summary of Cleanup Activities and Site Delineation* (November 27 to December 12, 2001), on November 30, 2001, AES began excavating, stockpiling and transporting impacted soil to the C & C Landfarm. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C. According to documentation prepared by AES, on November 30 and December 1, 2001, approximately 408 cubic yards (cy) of hydrocarbon impacted soil was transported to the landfarm. On December 5, 2001, excavation of the site ceased while EOTT and the landowner (Mr. Jimmy Cooper) entered into negotiations. From December 3 through December 11, 2001, AES collected samples and began mapping the site. Analytical results of the stockpile samples collected by AES indicates total petroleum hydrocarbons (TPH) concentrations ranged from 7,160 mg/Kg to 69,800 mg/Kg.

Plains has retained NOVA to continue the remedial activities and to progress the site toward closure under the New Mexico Oil Conservation Division (NMOCD) closure standards. A Site Location Map is provided as Figure 1 and a Surface and Trench Sample Location Map is provided as Figure 2.

2.0 SOIL, GEOLOGY AND HYDROLOGY

According to the Soil Survey of Lea County, New Mexico, USDA, 1972, the site is located on Midessa Loam Soils. Typically, Midessa Loam soils are a dark grayish brown loam approximately four inches thick at the surface. The subsoil is a grayish brown to pale brown clay loam approximately eighteen inches thick. The substratum, to a depth of sixty inches, is a light gray clay loam that has high lime content. This soil is moderately permeable, has slow runoff and the available water holding capacity is four to seven inches.

Regionally, surface sediments consist of unconsolidated, erosional talus and windblown sands, silts and gravels with layers or lenses of indurated caliche associated with Quaternary colluvium deposits. These deposits are derived from erosion of deposits of the Tertiary Ogallala Formation, which are exposed along an escarpment located north of the site. The Ogallala Formation, which serves as a major aquifer for southeastern New Mexico and several High Plains States underlies much of the area regionally. The Ogallala Formation is known to be up to 100 feet in thickness in parts of southeastern New Mexico. Locally, the Ogallala Formation underlies Quaternary, Tertiary, and recent alluvial and eolian sands. The Ogallala Formation is unconformably underlain by the Triassic Dockum Group, which is commonly referred to as the "red beds". While there are sand lenses within the Dockum Group, it is more typically characterized by red

siltstones and shale in which groundwater is often absent or limited in extent and forms an aquitard in most locations to water contained within sediments of the Ogallala Aquifer. The Dockum Group is known to contain sections as thick as 300 feet.

3.0 NMOCD SITE CLASSIFICATION

Groundwater at this site occurs at approximately twenty-seven feet bgs. This depth to groundwater results in a score of 20 being assigned to this site based on the NMOCD ranking criteria. The distance to the nearest water source exceeds 1,000 feet, resulting in no points being assigned to the site on this ranking criterion. There is no surface water body located with 1,000 feet of the site, resulting in no points being assigned on this ranking criterion.

The NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), indicates the South Monument Gathering Sour site has a ranking score of 20 points. The soil cleanup levels for a site with a ranking score greater than 19 require benzene concentrations below 10 mg/Kg and total benzene, toluene, ethylbenzene and xylene (BTEX) concentrations below 50 mg/Kg and total petroleum hydrocarbons gasoline range organics / diesel range organics (TPH-GRO/DRO) concentrations below 100 mg/Kg.

4.0 RECENT FIELD ACTIVITIES

On March 3, 2005, NOVA, on behalf of Plains, collected excavation sidewall, floor, stockpile, and flow path soil samples. Stockpile and flow path soil samples were collected as five point composites collected at surface as well as depths of three, six, twelve and eighteen inches below ground surface (bgs). Soil samples were collected at intervals of approximately 100 linear feet along the flow path and approximately one sample per three hundred square feet in the existing excavation bottom and existing stockpiles. Analytical results of soil samples collected within the existing excavation indicated TPH concentrations ranged from 1.07 mg/Kg at sample point SM-13 to 4,490 mg/Kg at sample point SM-6. Analytical results of the soil samples collected in the flow path ranged from 1.07 mg/Kg at SM-13 to 3,444 mg/Kg TPH at SM-17. Analytical results of soil samples collected from the existing stockpiles ranged from 1,966 mg/Kg at sample Quad-4C to 10,115 mg/Kg TPH at sample SP-6.

On July 25, 2006, four soil borings were advanced adjacent to or within the existing excavation to investigate the vertical and horizontal extent of hydrocarbon impact in these areas. Note that the top of soil boring SB-1 was located on the floor of the existing excavation, approximately seven feet bgs. Analytical results of soil samples collected during the advancement of soil boring SB-1 indicated the drilling interval of zero to five feet (seven to twelve feet bgs) exhibited a TPH concentration of 7,360 mg/Kg TPH. In addition, the drilling interval of fifteen to twenty feet (twenty-two to twenty-seven feet bgs) exhibited a TPH concentration of 191 mg/Kg TPH. Analytical results of soil samples collected during the advancement of soil boring SB-2 indicated the soil boring did not contain TPH concentrations above the NMOCD regulatory clean up standard. Analytical results of soil samples collected during the advancement of SB-3 indicated the interval between ten and fifteen feet bgs exhibited a total TPH concentration of 1,650 mg/Kg. Analytical results of soil samples collected during the advancement of soil boring SB-4 indicated

the soil boring did not contain TPH concentrations above the NMOCD regulatory clean up standard.

On September 13, 2006, a backhoe was utilized to excavate five investigation trenches along the reported crude oil flow path. The locations of the trenches are illustrated on Figure 2, Site Map. Analytical results indicate Trench T-1 contained hydrocarbon impact from the surface to twelve feet bgs (the depth limitation of the equipment). Total TPH concentrations ranged from 5,060 mg/Kg at six feet bgs to 209 mg/Kg at twelve feet bgs. Analytical results of soil samples collected from investigation Trenches T-2 through T-4 indicate the trenches were hydrocarbon impacted from the surface to eight feet bgs. Concentrations of TPH ranged from 19.7 mg/Kg in trench T-4 to 11,200 mg/Kg in trench T-3. Analytical results from soil samples collected from trench T-5 indicate no hydrocarbon impact at four feet bgs. The result of trenching activities in the flow path indicates hydrocarbon impact is present at depth, but limited to the flow path.

On November 30 through December 4, 2006, nine additional soil borings were advanced and three groundwater monitoring wells were installed to further delineate the site. Soil boring SB-5 was advanced to a depth of twenty-seven feet bgs. Analytical results indicate the soil samples collected at seven feet and fifteen feet bgs exhibited total TPH concentrations of 3,360 mg/Kg and 4,690 mg/Kg, respectively. The soil sample collected at twenty feet bgs exhibited a TPH concentration below the NMOCD regulatory cleanup level of 100 mg/Kg. In addition, total BTEX concentrations were below the NMOCD regulatory clean-up levels of 50 mg/Kg. The soil boring was terminated at twenty-seven feet bgs with no groundwater encountered.

Soil borings SB-6 and SB-7 were advanced to a depth of twenty-seven and thirty feet bgs, respectively. Analytical results indicate no hydrocarbon impact above the NMOCD regulatory levels was encountered in the soil borings.

Soil borings SB-8 through SB-11 were advanced to depths of twenty-seven, twenty-seven, thirty-one and thirty-five feet bgs, respectively. Analytical results indicate no hydrocarbon impact above the NMOCD regulatory levels was encountered in these soil borings. Soil boring SB-12 was advanced directly north of trench T-3. Analytical results of soil samples indicate TPH concentrations of 2,490 mg/Kg and 1,760 mg/Kg were encountered in the five and ten foot drilling intervals, respectively. Soil samples collected at fifteen and twenty feet bgs were below NMOCD regulatory cleanup levels.

Soil boring SB-13 was advanced to a depth of thirty-one feet bgs. Analytical results of soil samples collected indicate TPH concentrations ranged from 281 mg/Kg at fifteen feet to 2,720 mg/Kg at five feet bgs. Soil samples collected during the installation of monitor wells MW-1, MW-2 and MW-3, contained no hydrocarbon concentrations above the NMOCD regulatory cleanup levels. The results of drilling activities indicate hydrocarbon impacted soil is limited to areas immediately adjacent to the leak source and the subsequent flow path.

Figure 2 illustrates the locations and TPH concentrations of soil samples collected on March 3, 2006 and investigation trenches installed on September 1, 2006. Figure 3 illustrates the locations of soil borings and monitor wells. Table 1 summarizes the analytical data presented above.

Boring logs and monitor well completion data is provided in Appendix A and laboratory results are provided in Appendix B.

Three monitor wells are currently on site (MW-1, MW-2 and MW-3) and have been sampled on a quarterly schedule since December 2006. Review of the laboratory analysis for the groundwater samples collected at the site indicates that BTEX constituent concentrations have been below the NMOCD criteria for at least nine consecutive quarters.

5.0 PROPOSED ACTIONS

Based on analytical results of the horizontal and vertical delineation of impact to soil, no additional subsurface investigation is planned at this time. Plains proposes a risk-based closure strategy at the South Monument Gathering Sour Site. The work plan will employ limited additional excavation due to the depth of hydrocarbon impact. A polyurethane liner will be installed to isolate the deeper impacted soil. This engineered control will inhibit vertical migration of contaminants below the liner by inhibiting meoteoric moisture from elluvating chemicals of concern remaining in the soil. Plains proposes the following steps to progress the site known as South Monument Gathering Sour toward soil closure:

- The existing on-site soil stockpiles will be blended and mechanically spread. The soil will be sampled for baseline concentrations of TPH by EPA Method 8015b Modified GRO/DRO and utilizing industry standard protocol. The soil treatment cell will be periodically sampled and when the analytical results indicate TPH concentrations are below 1,000 mg/Kg, benzene concentrations are below 10 mg/Kg and total BTEX concentrations are below 50 mg/Kg, Plains will request NMOCD approval to place the remediated soil on top of the liner within the excavation. Stockpiled soil deemed unacceptable may be transported to an NMOCD licensed land farm or treated until the soil meets NMOCD criteria for reuse.

- Excavation of soil is proposed in two areas of the site. See Figure 4 for proposed approximate excavation limits. Excavation Area #1 is defined by soil borings SB-5, SB-1 and SB-3 and will be excavated to a depth of approximately fifteen feet bgs. The proposed area of excavation contains approximately 7,640 cy of soil (although a large portion of this area has been excavated to 7 feet bgs). Excavation Area #2 is defined by investigation trench T-3, soil boring SB-13 and sample point SM-17 and will be excavated to a depth of approximately ten feet bgs. The proposed area of excavation contains approximately 5,949 cy of soil. The actual limits of these excavations and the volume will be determined by field screening utilizing a Photo Ionization Detector (PID) and by visual and olfactory evaluation of the excavation sidewalls. Excavated material will be stockpiled onsite pending analysis and/or treatment.

- In order to evaluate the state of the excavation, one excavation sidewall sample will be collected for every fifty linear feet of excavated sidewall. The proposed areas of excavation are illustrated on Figure 4 (Proposed Excavation Area).

- Analytical results of sidewall confirmation samples will determine the final horizontal extent of the excavation.

- If hydrocarbon impact exceeding NMOCD cleanup standards exists in the soil below 15 feet in depth (for Area # 1) and 10 feet in depth (for Area # 2), a twenty millimeter (mil) polyurethane liner will be installed on the floor of each excavation. The floor of the excavations will be covered with a six inch layer of sand to protect the liner from damage. The liner will be positioned to allow any moisture to be shed off the sides of the liner. The liner will then be covered with an additional six inches of sand for further protection against rips and tears. On completion of the liner installation, the excavations will be backfilled with stockpiled soil deemed acceptable and/or non-impacted soil supplied by the landowner. The site will be returned to as near original topographic grade as practical.

6.0 REPORTING

Upon completion of the soil closure activities outlined above, a soil closure request will be submitted to the NMOCD.

7.0 LIMITATIONS

NOVA has prepared this *Soil Investigation Report and Proposed Soil Closure Strategy* to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA 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. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA 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. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or Plains.

8.0 DISTRIBUTION

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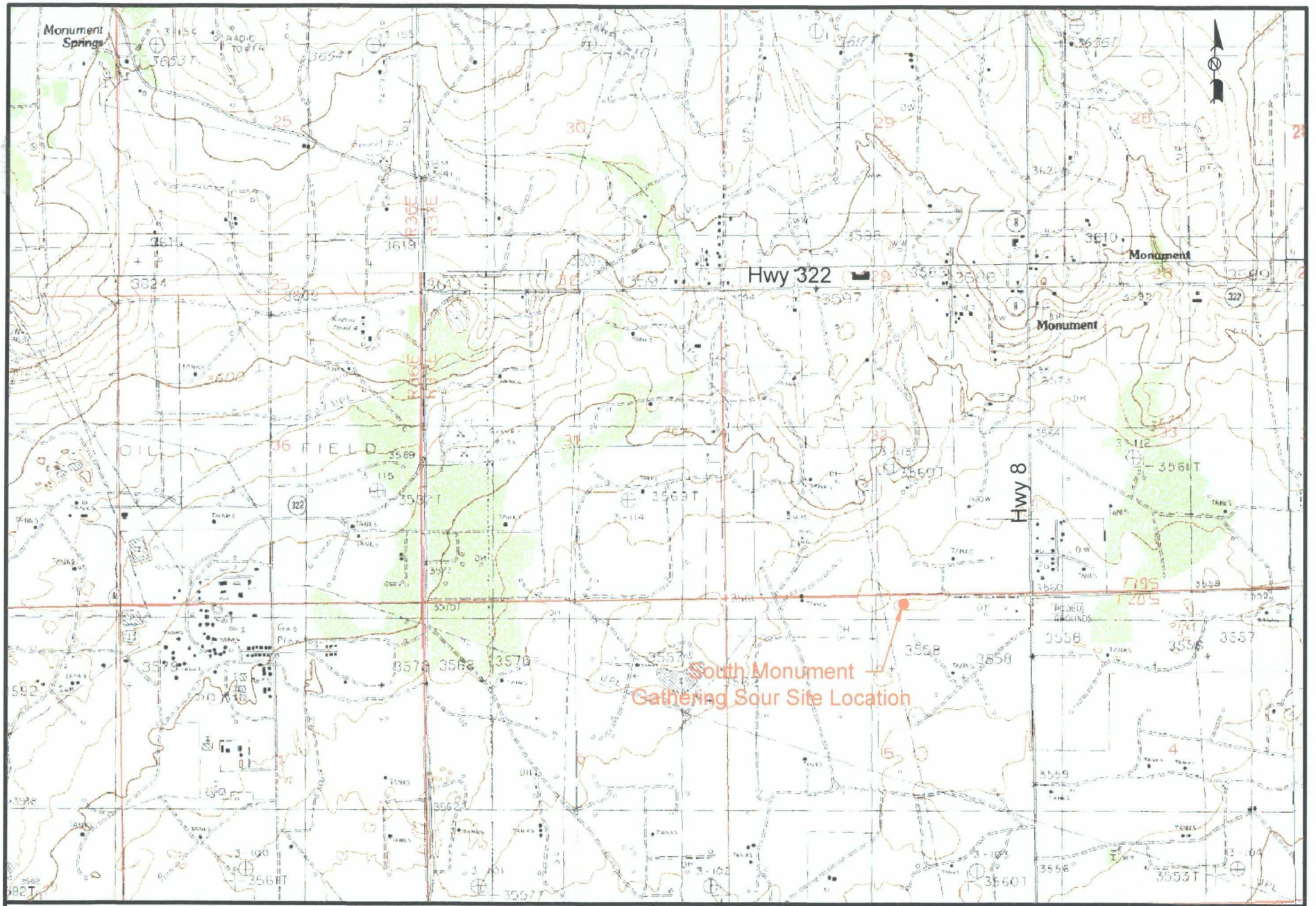
FIGURES



USGS Topographic Sheet Monument South (NM)
NW 1/4 NE 1/4 Sec 5 T20S, R37E

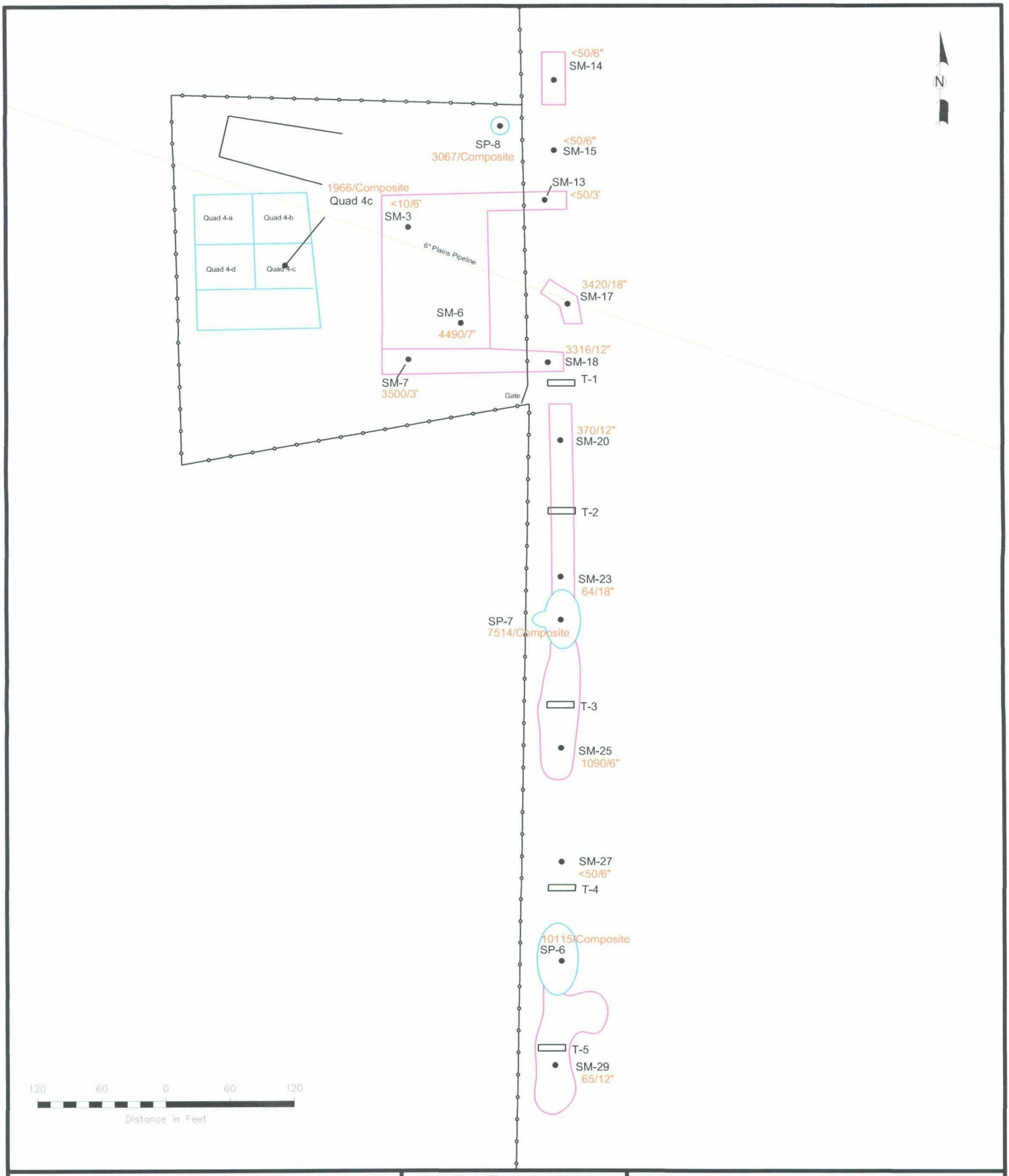
RP #951

Figure 1
Site Location Map
Plains Marketing, L.P.
Plains EMS #2001-11193
South Monument
Gathering Sour
Monument, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
December 6, 2004		



LEGEND:

- Pipeline
- Fence
- Excavation
- Stockpile
- SM-29 — Sample Point
- T-1 — Test Trench
- 65/12" — TPH Concentration/Depth

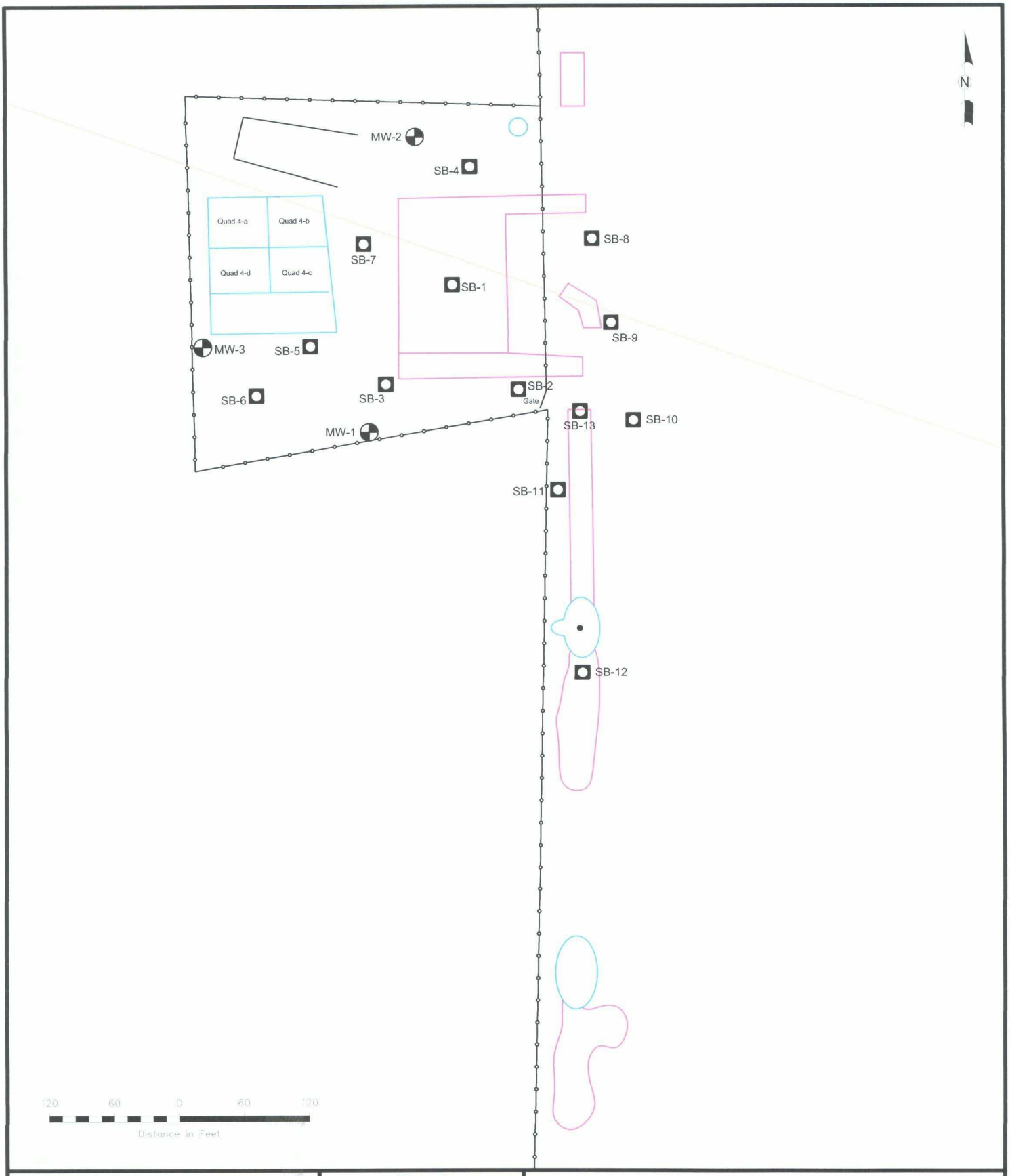
Figure 2
Locations of Surface Samples and Trench Locations

Plains Marketing, L.P.
Plains EMS #2001-11193

South Monument Gathering Sour
Monument, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

Scale 1" = 120'	Prep By: CDS	Checked By: CDS
April 10, 2007		



LEGEND:

- Pipeline
- Fence
- Initial Excavation
- Stockpile
- SB-2 Soil Boring Location
- Monitor Well

Figure 3

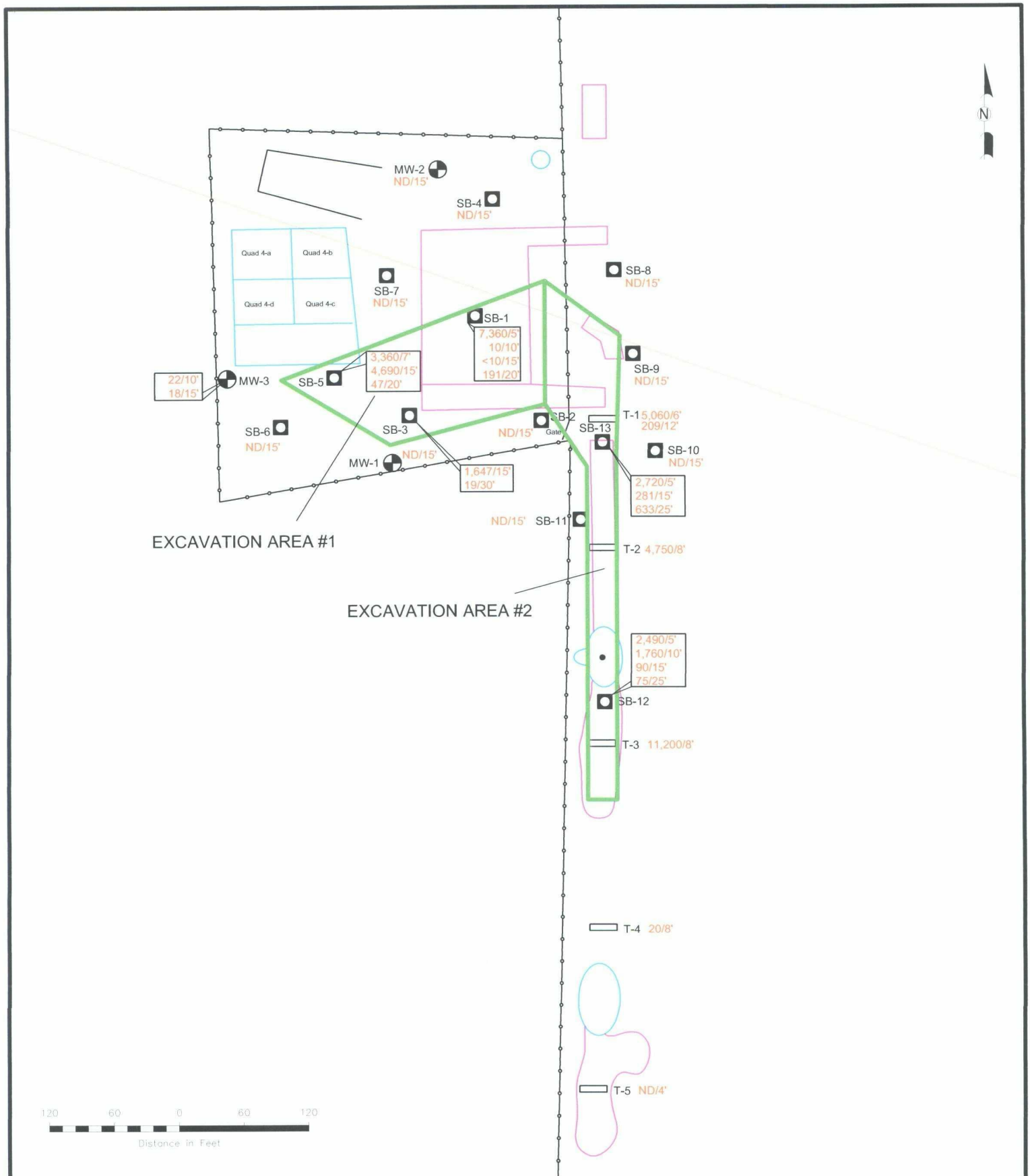
Locations of Soil Borings and Monitor Wells

Plains Marketing, L.P.
Plains EMS #2001-11193
South Monument Gathering Sour
Monument, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale 1" = 120'	Prep By: CDS	Checked By: CDS
April 10, 2007		



LEGEND:

- Pipeline
- Fence
- Initial Excavation
- Stockpile
- Proposed Area of Excavation
- SB-2 Soil Boring Location
- T-1 *Investigation Trench*
- Monitor Well
- 7360/5' TPH Concentration/Depth

Figure 4

Proposed Excavation Area

Plains Marketing, L.P.
Plains EMS #2001-11193
South Monument Gathering Sour
Monument, NM

NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

Scale 1" = 120'	Prep By: CDS	Checked By: CDS
May 12, 2009		

TABLES

Table 1

CONCENTRATIONS OF TPH AND BTEX IN SOIL

PLAINS MARKETING, L.P.

SOUTH MONUMENT GATHERING SOUR
Lea County, New Mexico
Plains SRS# 2001-11193

All concentrations are in mg/kg

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	Methods: EPA SW 846-8015M				Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
			C_6-C_{12}	C_{12}-C_{28}	C_{28} - C_{35}	Total TPH C_6-C_{35}					
11/26/01	* West Stockpile	–	**6870**	**41400**		**48270**					
	* East Stockpile	–	**9800**	**47700**		**57500**					
	* South Stockpile	–	**10500**	**59300**		**69800**					
11/30/01	* SP-1	–	**4330**	**19500**		**23830**					
	* SP-2	–	**6870**	**21500**		**28370**					
	* SP-3	–	**6550**	**22400**		**28950**					
	* SP-4	–	**8790**	**19500**		**28290**					
12/03/01	* Stockpile 4-a	–	**4430**	**10400**		**14830**					
	* Stockpile 4-b	–	**5110**	**15500**		**20610**					
	* Stockpile 4-c	–	**3820**	**11000**		**14820**					
	* Stockpile 4-d	–	**2500**	**7360**		**9860**					
	* Stockpile 5	–	**1840**	**5320**		**7160**					
	* Stockpile 6	–	**4100**	**12800**		**16900**					
03/03/05	SM-3	6 ft.	<10			<10					
	SM-6	7 ft.	<10	**4490**		**4490**	<0.020	<0.020	<0.020	0.0388	
	SM-7	3 ft.	<10	**3500**		**3500**					
	SM-13	3 ft.	1.07	<50		<50					
	SM-14	6-in.	<1.00	<50		<50					
	SM-15	6-in.	3.24	<50		<50					
	SM-17	18-in.	22.4	**3420**		**3442**					
	SM-18	12-in.	66.3	**3250**		**3316**					
	SM-20	12-in.	6.7	**363**		**370**					
	SM-23	18-in.	1.33	62.6		63.9					
	SM-25	6-in.	<10	**1090**		**1090**					
	SM-27	6-in.	<1.0	<50		<50					
	SM-29	12-in.	<1.0	65.4		65.4					
	QUAD 4C	–	**95.5**	**1870**		**1965**					
	SP-6	–	**485**	**9630**		**10115**					
	SP-7	–	**84**	**7430**		**7514**					
	SP-8	–	**177**	**2890**		**3067**					

Table 1

CONCENTRATIONS OF TPH AND BTEX IN SOIL

PLAINS MARKETING, L.P.

SOUTH MONUMENT GATHERING SOUR
Lea County, New Mexico
Plains SRS# 2001-11193

All concentrations are in mg/kg

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	Methods: EPA SW 846-8015M								
			C_6-C_{12}	C_{12}-C_{28}	C_{28} - C_{35}	Total TPH C_6-C_{35}	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
07/25/06	** SB#1 @ 5'	5 ft.	**1990**	**5060**	**310**	**7360**					
	** SB#1 @ 10'	10 ft.	<10	10.7	<10	10.7					
	** SB#1 @15'	15 ft.	<10	<10	<10	<10					
	** SB#1 @20'	20 ft.	30.7	**160**	**<10**	**191**					
	SB#2 @15'	15 ft.	<10	<10	<10	<10					
	SB#2 @ 30'	30 ft.	<10	<10	<10	<10					
	SB#3 @ 15'	15 ft.	**191**	**1300**	**156**	**1647**					
	SB#3 @ 30'	30 ft.	<10	19.2	<10	19.2					
	SB#4 @ 15'	15 ft.	<10	<10	<10	<10					
	SB#4 @ 30'	30 ft.	<10	<10	<10	<10					
09/13/06	T1 @ 12'	12 ft.	**19.5**	**162**	**27.4**	**209**					
	T1 @ 6'	6 ft.	**1530**	**3250**	**278**	**5060**					
	T2 @ 8'	8 ft.	**1620**	**2860**	**274**	**4750**					
	T3 @ 8'	8 ft.	**4010**	**6740**	**408**	**11200**					
	T4 @ 8'	8 ft.	<10	19.7	<10	19.7					
	T5 @ 4'	4 ft.	<10	<10	<10	<10					
11/30/06	MW-1@ 15'	15 ft.	<10	<10	<10	<10					
	MW-1@ 25'	25 ft.	<10	<10	<10	<10					
12/01/06	SB-5@ 7'	7 ft.	**1210**	**2090**	**63.1**	**3360**					
	SB-5@15'	15 ft.	**1420**	**3170**	**100**	**4690**	<0.002	1.58	6.55	26.7	5.64
	SB-5@ 20'	20 ft.	<10	47.6	<10	47.6					
	SB-6@ 15'	15 ft.	<10	<10	<10	<10					
	SB-6@ 25'	25 ft.	<10	<10	<10	<10					
	SB-7@ 15'	15 ft.	<10	<10	<10	<10					
	SB-7@ 25'	25 ft.	<10	<10	<10	<10					
	MW-2@ 15'	15 ft.	<10	<10	<10	<10					
	MW-2@ 25'	25 ft.	<10	<10	<10	<10					

Table 1

CONCENTRATIONS OF TPH AND BTEX IN SOIL

PLAINS MARKETING, L.P.

SOUTH MONUMENT GATHERING SOUR
Lea County, New Mexico
Plains SRS# 2001-11193

All concentrations are in mg/kg

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	Methods: EPA SW 846-8015M								
			C_6-C_{12}	C_{12}-C_{28}	C_{28} - C_{35}	Total TPH C_6-C_{35}	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
12/04/06	SB-8@ 15'	15 ft.	<10	<10	<10	<10					
	SB-8@ 25'	25 ft.	<10	<10	<10	<10					
	SB-9@ 15'	15 ft.	<10	<10	<10	<10					
	SB-9@ 25'	25 ft.	<10	<10	<10	<10					
	SB-10@ 15'	15 ft.	<10	<10	<10	<10					
	SB-10@ 25'	25 ft.	<10	<10	<10	<10					
	SB-11@ 15'	15 ft.	<10	<10	<10	<10					
	SB-11@ 25'	25 ft.	<10	<10	<10	<10					
	SB-11@ 30'	30 ft.	<10	<10	<10	<10					
	SB-12@ 5'	5 ft.	**1110**	**1350**	**26**	**2490**					
	SB-12@ 10'	10 ft.	**464**	**1260**	**36.9**	**1760**	<0.002	0.709	2.04	9.87	2.56
	SB-12@ 15'	15 ft.	10.7	79.5	<10	90.2					
	SB-12@ 25'	25 ft.	12.3	62.7	<10	75					
	SB-13@ 5'	5 ft.	**827**	**1850**	**43.1**	**2720**					
	SB-13@ 15'	15 ft.	**63.8**	**217**	**<0.01**	**281**	<0.0025	0.0445	0.198	0.856	0.191
	SB-13@ 25'	25 ft.	**117**	**502**	**14.4**	**633**	<0.0025	<0.0025	<0.0025	<0.0025	0.0722
	MW-3@ 10'	10 ft.	<10	22.1	<10	22.1					
	MW-3@ 15'	15 ft.	<10	18.7	<10	18.7					
	MW-3@ 25'	25 ft.	<10	<10	<10	<10					

BOLD indicates analytical results in excess of NMOCD regulatory standards

* Samples collected by Allstate Environmental Services, Inc.

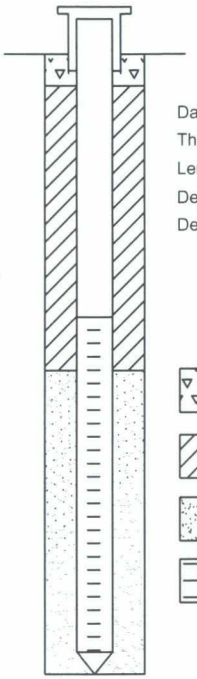
** Soil boring located on floor of existing excavation approximately 7 ft. bgs (depths shown are below excavation floor)

APPENDICES

APPENDIX A:
Well Boring Logs

Monitor Well MW-1

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					
		1.6	None	None	0 - 5' - Clay, brown, sandy.
5					
		2.2	None	None	5 - 10' - Clay, grey, sandy.
10					
		(2.6)	None	None	10 - 15' - Sand, brown with caliche fragments.
15					
		3.4			
20			None	None	15 - 26' - Sand, brown, medium grain, some caliche fragments.
		(4.6)			
25					
▽		3.7	Moderate	None	26 - 30' - Sand and gravel, wet.
30					
			Slight	None	30 - 35 - Clay, red to rose, moist.
35	TD				



Monitor Well Details

Date Drilled	11-30-06
Thickness of Bentonite Seal	16 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	35 ft
Depth of Exploratory Well	35 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

▽ Indicates the ground water level measured on date.

Completion Notes

1. The monitor well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from below ground surface. (bgs)

Boring Log And Monitor Well Details
Monitor Well MW-1
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

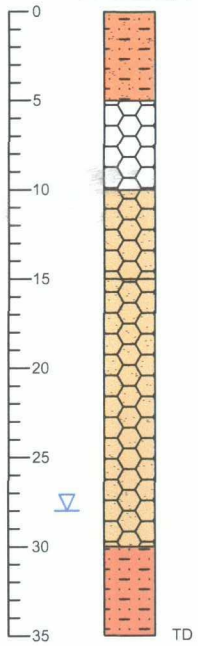
NOVA safety and environmental

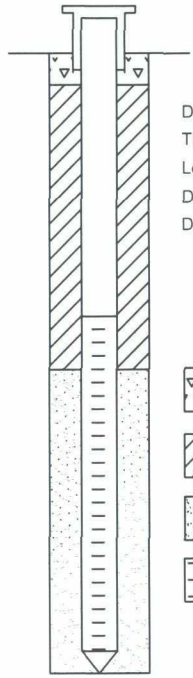
NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Monitor Well MW-2

Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5	3.0	None	None	0 - 5' - Sand, reddish-brown, clayey, moist.
5 - 10	2.8	None	None	5 - 10' - Caliche, white.
10 - 15	(2.6)	None	None	10 - 15' - Caliche, white and sand, brown.
15 - 20	0.9			
20 - 25	(0.0)	None	None	15 - 30' - Sand, brown, with some caliche fragments.
25 - 30	0.0			
30 - 35	11.0	None	None	30 - 35 - Clay, red, (red beds).





Monitor Well Details

Date Drilled	12-01-06
Thickness of Bentonite Seal	16 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	35 ft
Depth of Exploratory Well	35 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

(oval) *Indicates samples selected* for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates the ground water level measured on date.

Completion Notes

1. The monitor well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from below ground surface. (bgs)

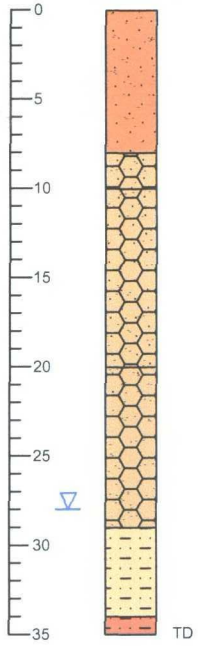
Boring Log And Monitor Well Details
Monitor Well MW-2
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

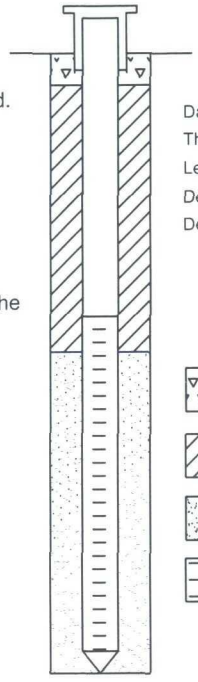
NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
April 3, 2007	

Monitor Well MW-3



Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5		2.0	None	None	0 - 8' - Sand, reddish-brown, very fine grained.
5 - 10		(13.7)	None	None	8 - 10' - Caliche, white and sand, brown.
10 - 15		(3.5)	None	None	10 - 20' - Sand, brown, fine grained with caliche fragments.
15 - 20		0.7			
20 - 25		(0.0)	None	None	15 - 29' - Sand, brown, with some caliche fragments.
25 - 30		0.0	None	None	29 - 34' - Clay, tan, moist to wet.
30 - 35			None	None	34 - 35 - Clay, *red*, (*red beds*).



Monitor Well Details

Date Drilled	12-04-06
Thickness of Bentonite Seal	15 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	35 ft
Depth of Exploratory Well	35 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates the ground water level measured on date.

Completion Notes

1. The monitor well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from below ground surface. (bgs)

Boring Log And Monitor Well Details
Monitor Well MW-2
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

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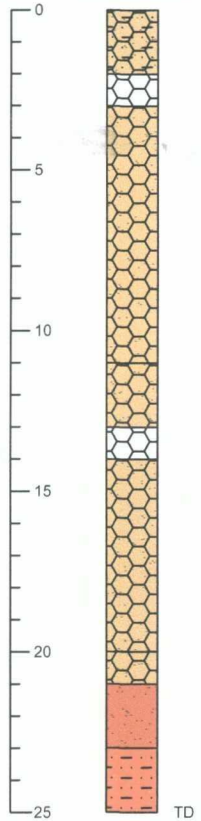
CAD By: DGC	Checked By: CDS
April 3, 2007	

Soil Boring SB-1



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
		Moderate	None	0 - 2' - Caliche, white, sandy and clayey, brown.
		Moderate	None	2 - 3' - Caliche, white, very hard.
5	541			
		Heavy	None	3 - 11' - Caliche, white, sandy, brown.
10	66			
		Heavy	None	11 - 13' - Sand, brown, with caliche fragments.
		Heavy	None	13 - 14' - Caliche, white, hard.
15	60.4			
		Moderate	None	14 - 20' - Caliche, white, sand, brown, moist.
20	386	Heavy	None	20 - 21' - Caliche, white, sand, brown, moist.
		Moderate	None	21 - 23' - Sand, rose, moist to wet.
		Moderate	None	23 - 25' - Clay, red, (red beds).

Soil Boring Details

Date Drilled 07-25-06

Depth ofSoil Boring 25 ft

⬭ Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

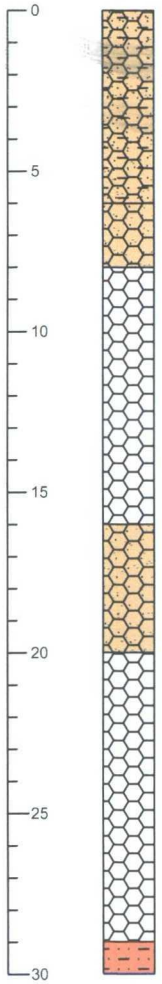
Soil Boring Log and Details
Soil Boring SB-1
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-2



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5	3.7	None	None	0 - 5' - Sand, brown, clayey, some caliche fragments, fine grained.
5 - 8		None	None	6 - 8' - Caliche, white, sand, brown.
10	0.3			
8 - 16		None	None	8 - 16' - Caliche, white, very hard, dry.
15	(4.0)			
16 - 20	0.3	None	None	16 - 20' - Sand, brown, very fine grained with caliche fragments, white.
25	0.4	None	None	20 - 29' - Caliche, white, very hard, dry.
30 TD	(0.0)	None	None	20 - 29' - Clay, red, (red beds).

Soil Boring Details

Date Drilled 07-25-06

Depth ofSoil Boring 30 ft

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

Soil Boring Log and Details
Soil Boring SB-2
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

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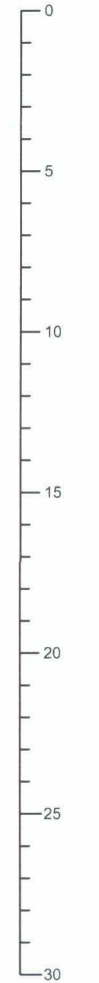
CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-3



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0	0.4	None	None	0 - 7' - Clay, brown, sandy.
5		None	None	7 - 9' - Caliche, white.
10	2.0	None	None	9 - 11' - Sand, brown, very fine grained with some clay.
15	4.0	Heavy	Moderate	11 - 17' - Caliche, white to black, sandy.
	4.6	Heavy	None	17 - 20' - Sand, brown.
20		Heavy	None	20 - 27' - Sand, brown, moist.
25	(6.3)			
		Moderate	None	27 - 29' - Caliche, white.
30	19.2	None	None	29 - 30' - Clay, red, (red beds), moist.

Soil Boring Details

Date Drilled 07-25-06

Depth ofSoil Boring 30 ft

(6.3) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

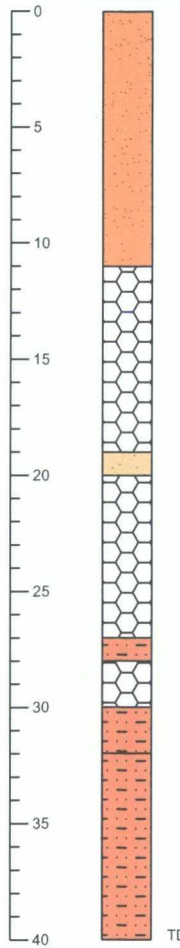
Soil Boring Log and Details
Soil Boring SB-3
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-4



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5	2.4	None	None	0 - 11' - Sand, reddish-brown.
10	2.6			
15	(2.9)	None	None	11 - 19' - Caliche, white, soft.
20		None	None	19 - 20' - Sand, brown.
25	1.8	None	None	20 - 27' - Caliche, white, soft, dry.
		None	None	27 - 28' - Clay, red.
30	(1.5)	None	None	28 - 30' - Caliche.
		None	None	30 - 32' - Clay, red, (red beds).
35	2.5	None	None	32 - 40' - Clay, red, (red beds), moist.
	2.1			
40	TD 2.4			

Soil Boring Details

Date Drilled 07-25-06

Depth ofSoil Boring 40 ft

(2.9) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

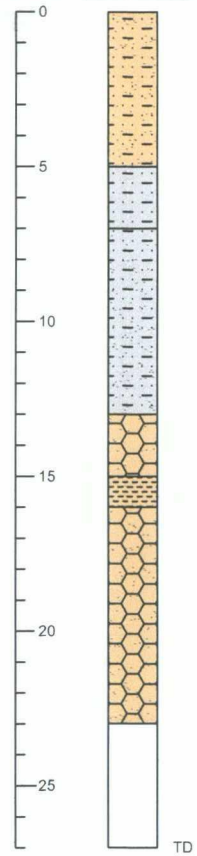
Soil Boring Log and Details
Soil Boring SB-4
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-5



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0		None	None	0 - 5' - Sand, clay, brown, moist.
5	9.3	Heavy	Moderate	5 - 7' - Clay, grey.
10	1078	Heavy	Moderate	7 - 13' - Clay and sand, grey.
15	1116	Moderate	None	13 - 15' - Sand, brown, to grey, some caliche fragments.
		Slight	None	15 - 16' - Sandstone, brown, tite.
20	30	None	None	16 - 23' - Sand, brown, caliche fragments.
25				23 - 27' - VOID, no circulation.

Soil Boring Details

Date Drilled 12-01-06

Depth of Soil Boring 27 ft

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

Soil Boring Log and Details
Soil Boring SB-5
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-6

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0		2.0	None	None	0 - 6' - Sand, brown, very fine grained, moist.
5		1.3	None	None	6 - 10' - Clay, sand, brown.
10		(2.1)	None	None	10 - 15' - Caliche, grey, soft to hard, some sand stringers.
15		1.5			
20		(2.2)	None	None	15 - 27' - Sand, brown, fine to medium grained, some caliche fragments.
25		1.3			
TD					

Soil Boring Details

Date Drilled 12-01-06

Depth ofSoil Boring 27 ft

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

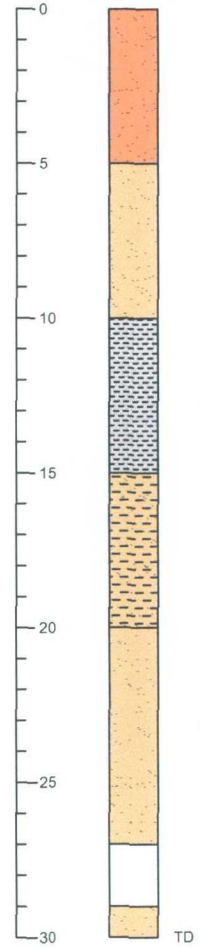
Soil Boring Log and Details
Soil Boring SB-6
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-7



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	0.9	None	None	0 - 5' - Sand, red to brown, medium grained.
	1.5	None	None	5 - 10' - Sand, brown.
	(2.5)	None	None	10 - 15' - Sandstone, grey to white, very hard.
	3.1	None	None	15 - 20' - Sand, brown with some sandstone fragments.
	(2.8)	None	None	20 - 27' - Sand, brown.
				27 - 29' - VOID, no circulation.
	5.5	None	None	20 - 27' - Sand, brown.

Soil Boring Details

Date Drilled 12-01-06

Depth ofSoil Boring 30 ft

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

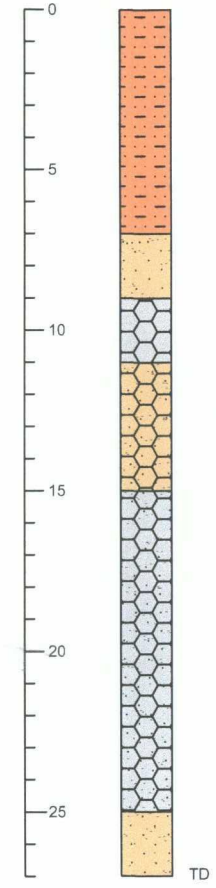
Soil Boring Log and Details
Soil Boring SB-7
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-8



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0	0.0	None	None	0 - 7' - Clay, reddish-brown, clayey, moist.
5	0.0	None	None	7 - 9' - Sand, brown, very fine grained, dry.
10	0.0	None	None	9 - 11' - Caliche, grey.
	(0.0)	None	None	11 - 15' - Sand, brown with caliche fragments.
15	0.0			
20		None	None	15 - 25' - Caliche, grey, sandy, soft.
	(0.0)			
25	2.0	None	None	25 - 27' - Sand, brown, medium grained, dry.

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 27 ft

(0.0) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

Soil Boring Log and Details
Soil Boring SB-8
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-9

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					
5		0.0	None	None	0 - 9' - Clay, reddish-brown, sandy, moist.
10		(0.0)	None	None	9 - 13' - Caliche, grey, sandy, dry.
15					
20		0.0	None	None	15 - 25' - Caliche, grey, sandy, soft.
25		(0.0)	None	None	25 - 27' - Caliche, friable, dry.
TD					

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 27 ft

(0.0) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

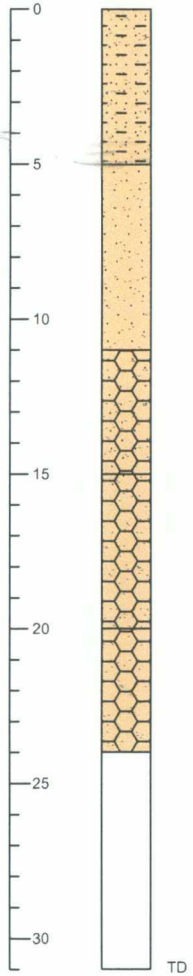
Soil Boring Log and Details
Soil Boring SB-9
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-10



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0	0.0	None	None	0 - 5' - Clay, brown to red, sandy, moist.
5	0.0	None	None	5 - 11' - Sand, brown, very fine grained, dry.
10	(0.0)	None	None	11 - 15' - Caliche, grey, soft, sand, brown.
15	0.0	None	None	15 - 20' - Sand, brown with some caliche fragments.
20	(0.0)	None	None	20 - 24' - Caliche, grey, sandy, brown.
25				24 - 31' - VOID, no circulation.
30				

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 31 ft

(0.0) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

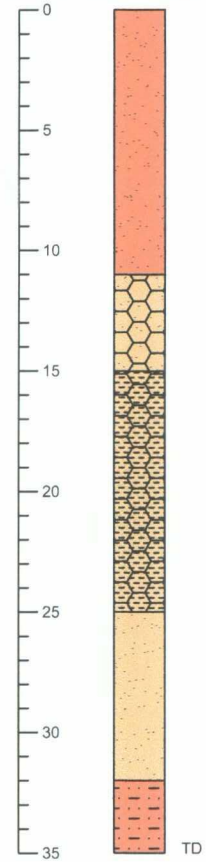
Soil Boring Log and Details
Soil Boring SB-10
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-11



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5	0.6	None	None	0 - 11' - Sand, red, very fine grained, moist.
5 - 10	0.2			
10 - 15	(1.0)	None	None	11 - 15' - Sand, brown with caliche fragments.
15 - 20	0.0	None	None	15 - 25' - Sandstone, brown with caliche fragments.
20 - 25	(0.1)			
25 - 30	(6.0)	None	None	25 - 32' - Sand, brown.
30 - 35	0.2	None	None	32 - 35' - Clay, red, (red beds).

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 40 ft

(oval) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

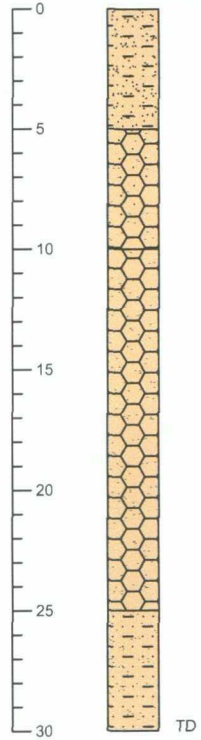
Soil Boring Log and Details
Soil Boring SB-11
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-12



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0	(1504)	Heavy	Slight	0 - 5' - Sand, brownish-grey, clayey.
5	(831)	Moderate	None	5 - 10' - Caliche, grey and sand, brown.
10	(79)	Moderate	None	
15	49	Slight	None	10 - 25' - Sand, brown with some caliche fragments.
20	(105)	Slight	None	
25	59	Slight	None	25 - 30' - Sand, brown and clay, red.
30				

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 30 ft

(1504) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

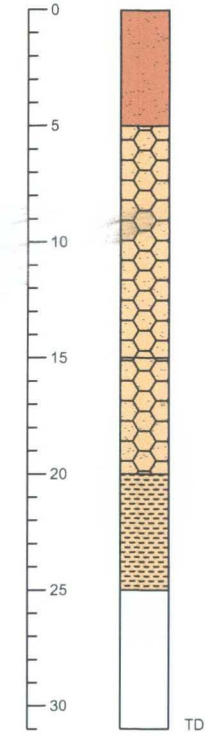
Soil Boring Log and Details
Soil Boring SB-12
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

Soil Boring SB-13



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	(819)	Very Heavy	Moderate	0 - 5' - Sand, dark brown.
	781	Heavy	None	
				5 - 15' - Sand, brown, caliche, grey.
	(310)	Moderate	None	
	126	Slight	None	15 - 20' - Caliche, grey, sand, brown.
	(473)	Slight	None	20 - 25' - Sandstone, brown.
				25 - 31' - VOID, no circulation.

Soil Boring Details

Date Drilled 12-04-06

Depth ofSoil Boring 31 ft

(819) Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The soil boring was installed on date using air rotary drilling techniques.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from below ground surface. (bgs)

Soil Boring Log and Details
Soil Boring SB-13
South Monument Gathering Sour Lea County, New Mexico
Plains Marketing, L.P.

NOVA safety and environmental

NOVA Safety and Environmental

CAD By: DGC	Checked By: CDS
March 30, 2007	

APPENDIX B:
Laboratory Analytical Reports and Chain of Custody Records

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: RANDY OFFIELD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182
FAX: 684-3456 (George Friend)

Sample Type: Soil
Sample Condition: Intact/Iced/ 0.0 deg C
Project Name: EOTT Pipeline Monument Gathering Sour
Project #: None Given
Project Location: Monument, NM

Sampling Date: 11/26/01
Receiving Date: 11/26/01
Analysis Date: 11/26/01

ELT #	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0102075-01	West Stockpile	6870	41400
0102075-02	East Stockpile	9800	47700
0102075-03	South Stockpile	10500	59300

QUALITY CONTROL	490	594
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	98	119
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	529	608
SPIKE DUP	498	575
% EXTRACTION ACCURACY	111	128
BLANK	<10	<10
RPD	6.0	5.6

Methods: SW 846-8015M

Raland K. Tuttle

11-27-01
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Bandy Offield / George Friend
Company Name: ALLSTATE SERVICES ENVIRONMENTAL
Company Address: MIDLAND, TEXAS
City/State/Zip:
Telephone No: 682-3547
Fax No: 915-682-4182 Fax EOTT also
Sampler Signature: Bobby L Blakeney

Project Name: EOTT Pipeline Monument Gathering
Project #:
Project Loc: Monument N.M.
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: TCLP: TOSIC/CL/SAR/EC	TOTAL: TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030					RUSH TAT (Pre-Schedule)
01D2076-01	West Stock Pile	11-26-01	10:15	1	✓									✓					✓	✓			✓					✓
02	East Stock Pile	11-26-01	10:25	1	✓									✓					✓	✓			✓					✓
03	South Stock Pile	11-26-01	10:40	1	✓									✓					✓	✓			✓					✓

Special Instructions:
Bill to EOTT Pipeline

Relinquished by:	Date	Time	Received by:	Date	Time
Bobby L Blakeney	11-26-01	12:00	C.H. Kelly	11/26/01	12:00 noon
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
C.H. Kelly	11/26/01	1:18pm		11-27-01	1212

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.0° C
Laboratory Comments: RUSH By Tues Late a.m.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: RANDY OFFIELD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182
FAX: 684-3456 (George Friend)

SampleType: Soil
Sample Condition: Intact/ Iced/ -2.0 deg C
Project Name: EOTT
Project #: 2001-11193
Project Location: Lea County, NM

Sampling Date: 11/30/
Receiving Date: 12/01
Analysis Date: 12/03/0

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0102114-01	SP-1	4330	19500
0102114-02	SP-2	6870	21500
0102114-03	SP-3	6550	22400
0102114-04	SP-4	8790	19500
QUALITY CONTROL		478	580
TRUE VALUE		500	500
% INSTRUMENT ACCURACY		96	112
SPIKED AMOUNT		476	476
ORIGINAL SAMPLE		<10	752
SPIKE		434	1350
SPIKE DUP		440	1380
% EXTRACTION ACCURACY		91	126
BLANK		<10	<10
RPD		1.37	2.20

METHODS: SW 846-8015M

Raland K. Tuttle

12-04-01
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS

Project Manager: GEORGE FRIEND
Phone #: 915/682-3546
FAX #: 915/682-4182

Company Name & Address: ~~EOTT~~ ENERGY
ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #: ~~EOTT Lovell~~ 2001-11193
Project Name: Eott

Project Location: LEA County, N.M.
Sampler Signature: Dan Swail

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 418.1 / 8015 Mod.	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TOS	TCI	8015 - GRO/DRO
D102114-01	SP-1	1	4oz	✓							✓			11-30-01	15:10		✓							✓
02	SP-2	1	4oz	✓							✓			11-30-01	15:18		✓							✓
03	SP-3	1	4oz	✓							✓			11-30-01	15:25		✓							✓
04	SP-4	1	4oz	✓							✓			11-30-01	17:05		✓							✓

Relinquished by:	Date:	Time:	Received by:
Dan Swail	11-30-01		Jean Ofield
Relinquished by:	Date:	Time:	Received by:
Jean Ofield	12-01-01	0955	Jeanne McMurrey
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: fax to office

Rec -2.0°C

RUSH

ENVIRONMENTAL

Dec 04 01 10:31a p.2

Soil

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: RANDY OFFIELD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182
FAX: 684-3456 (George Friend)

SampleType: Soil
Sample Condition: Intact/ Iced/ 4 deg C
Project Name: Monument Gathering Sour
Project #: 2001-11193
Project Location: Lea County, NM

Sampling Date: 12/03/01
Receiving Date: 12/03/01
Analysis Date: 12/04/01

ELT #	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	Total TPH mg/kg
0102127-01	Stockpile 4-a	4430	10400	14830
0102127-02	Stockpile 4-b	5110	15500	20610
0102127-03	Stockpile 4-c	3820	11000	14820
0102127-04	Stockpile 4-d	2500	7360	9860
0102127-05	Stockpile 5	1840	5320	7160
0102127-06	Stockpile 6	4110	12800	16910
QUALITY CONTROL		477	609	1086
TRUE VALUE		500	500	1000
% INSTRUMENT ACCURACY		95	122	109
SPIKED AMOUNT		500	500	1000
ORIGINAL SAMPLE		<25	<25	<25
SPIKE		485	581	1066
SPIKE DUP.		489	582	1071
% EXTRACTION ACCURACY		98	116	107
BLANK		<25	<25	<25
RPD		0.92	0.17	0.47

METHODS: TNRCC 1005

Celey D. Keene

12/4/01
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: George Friend
Phone #: 915/682-3546
FAX #: 915/682-4182

Company Name & Address: FOTT
ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #: 2001-11193
Project Name: Monument Gathering Sour

Project Location: Lea County, N.M.
Sampler Signature: C.R. Kaby

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME
001	Stockpile 4-#2	1	4oz		✓						✓			12-3-01	1530
02	" 4-#6	1	"		✓						✓			"	1505
03	" 4-c	1	"		✓						✓			"	1510
04	" 4-d	1	"		✓						✓			"	1520
05	" 5	1	"		✓						✓			"	1450
06	" 6	1	"		✓						✓			"	1430
0															

ANALYSIS REQUEST

BTEX 8021B/5030	TPH 418.1/TX1005	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
	✓						
	✓						
	✓						
	✓						
	✓						
	✓						

Relinquished by:	Date:	Time:	Received by:
C.R. Kaby	12-3-01	1720	
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS
Ice 4° C. Rush 24hr.
Fax ASE & George - Call Randy - 528-9563

Summary Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: March 17, 2005

Work Order: 5030719

Project Location: South Monument Gathering Sour
Project Number: 2001-11193

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
56556	SM-3	soil	2005-03-03	12:30	2005-03-05
56559	SM-6	soil	2005-03-03	13:00	2005-03-05
56560	SM-7	soil	2005-03-03	13:10	2005-03-05
56566	SM-13	soil	2005-03-03	14:10	2005-03-05
56567	SM-14	soil	2005-03-03	14:20	2005-03-05
56568	SM-15	soil	2005-03-03	14:30	2005-03-05
56570	SM-17	soil	2005-03-03	14:50	2005-03-05
56571	SM-18	soil	2005-03-03	15:00	2005-03-05
56573	SM-20	soil	2005-03-03	15:20	2005-03-05
56576	SM-23	soil	2005-03-03	15:50	2005-03-05
56578	SM-25	soil	2005-03-03	16:10	2005-03-05
56580	SM-27	soil	2005-03-03	16:30	2005-03-05
56582	SM-29	soil	2005-03-03	16:50	2005-03-05
56586	QUAD 4C	soil	2005-03-03	17:30	2005-03-05
56590	SP-6	soil	2005-03-03	18:10	2005-03-05
56591	SP-7	soil	2005-03-03	18:20	2005-03-05
56592	SP-8	soil	2005-03-03	18:30	2005-03-05

	BTEX by 8260					MTBE by 8260	TPH DRO	TPH GRO
Sample - Field Code	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylene (µg/Kg)	o-Xylene (µg/Kg)	MTBE (µg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
56556 - SM-3								<10.0
56559 - SM-6	<20.0	<20.0	<20.0	<20.0	38.8		4490	<10.0
56560 - SM-7							3500	<10.0
56566 - SM-13							<50.0	1.07
56567 - SM-14							<50.0	<1.00
56568 - SM-15							<50.0	3.24
56570 - SM-17							3420	22.4
56571 - SM-18							3250	66.3
56573 - SM-20							363	6.70
56576 - SM-23							62.6	1.33
56578 - SM-25							1090	<10.0
56580 - SM-27							<50.0	<1.00
56582 - SM-29							65.4	<1.00
56586 - QUAD 4C							1870	95.5
56590 - SP-6							9630	485
56591 - SP-7							7430	84.0

continued ...

... continued

Sample - Field Code	BTEX by 8260 Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylene (µg/Kg)	o-Xylene (µg/Kg)	MTBE by 8260 MTBE (µg/Kg)	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
56592 - SP-8							2890	177

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: March 17, 2005

Work Order: 5030719

Project Location: South Monument Gathering Sour
Project Number: 2001-11193

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
56556	SM-3	soil	2005-03-03	12:30	2005-03-05
56559	SM-6	soil	2005-03-03	13:00	2005-03-05
56560	SM-7	soil	2005-03-03	13:10	2005-03-05
56566	SM-13	soil	2005-03-03	14:10	2005-03-05
56567	SM-14	soil	2005-03-03	14:20	2005-03-05
56568	SM-15	soil	2005-03-03	14:30	2005-03-05
56570	SM-17	soil	2005-03-03	14:50	2005-03-05
56571	SM-18	soil	2005-03-03	15:00	2005-03-05
56573	SM-20	soil	2005-03-03	15:20	2005-03-05
56576	SM-23	soil	2005-03-03	15:50	2005-03-05
56578	SM-25	soil	2005-03-03	16:10	2005-03-05
56580	SM-27	soil	2005-03-03	16:30	2005-03-05
56582	SM-29	soil	2005-03-03	16:50	2005-03-05
56586	QUAD 4C	soil	2005-03-03	17:30	2005-03-05
56590	SP-6	soil	2005-03-03	18:10	2005-03-05
56591	SP-7	soil	2005-03-03	18:20	2005-03-05
56592	SP-8	soil	2005-03-03	18:30	2005-03-05

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 56556 - SM-3

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[1]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.838	mg/Kg	100	0.0100	84	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	100	0.0100	102	0 - 174

Sample: 56559 - SM-6

Analysis:	BTEX by 8260	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	16676	Date Analyzed:	2005-03-14	Analyzed By:	JG
Prep Batch:	14710	Sample Preparation:	2005-03-14	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<20.0	µg/Kg	20	1.00
Toluene		<20.0	µg/Kg	20	1.00
Ethylbenzene		<20.0	µg/Kg	20	1.00
m,p-Xylene		<20.0	µg/Kg	20	1.00
o-Xylene		38.8	µg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		937	µg/Kg	20	50.0	94	70 - 130
Toluene-d8		1020	µg/Kg	20	50.0	102	70 - 130
4-Bromofluorobenzene (4-BFB)		1010	µg/Kg	20	50.0	101	70 - 130

Sample: 56559 - SM-6

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		4490	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	567	mg/Kg	1	150	378	62.8 - 115

[1] Sample ran at a dilution due to surfactants.
[2] High surrogate recovery due to peak interference.

Sample: 56559 - SM-6

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[3]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.959	mg/Kg	100	0.0100	96	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	100	0.0100	100	0 - 174

Sample: 56560 - SM-7

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		3500	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[4]	530	mg/Kg	1	150	353	62.8 - 115

Sample: 56560 - SM-7

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[5]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.735	mg/Kg	100	0.0100	74	0 - 160
4-Bromofluorobenzene (4-BFB)		0.977	mg/Kg	100	0.0100	98	0 - 174

Sample: 56566 - SM-13

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

continued ...

[3] Sample ran at a dilution due to surfactants. •
[4] High surrogate recovery due to peak interference.
[5] Sample ran at a dilution due to surfactants. •

sample 56566 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		150	mg/Kg	1	150	100	62.8 - 115

Sample: 56566 - SM-13

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.07	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	10	0.100	109	0 - 160
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	10	0.100	150	0 - 174

Sample: 56567 - SM-14

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		158	mg/Kg	1	150	106	62.8 - 115

Sample: 56567 - SM-14

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	10	0.100	111	0 - 160
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	10	0.100	153	0 - 174

Sample: 56568 - SM-15

Analysis: TPH DRO
QC Batch: 16394
Prep Batch: 14482

Analytical Method: Mod. 8015B
Date Analyzed: 2005-03-07
Sample Preparation: 2005-03-07

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		153	mg/Kg	1	150	102	62.8 - 115

Sample: 56568 - SM-15

Analysis: TPH GRO
QC Batch: 16469
Prep Batch: 14537

Analytical Method: S 8015B
Date Analyzed: 2005-03-08
Sample Preparation: 2005-03-08

Prep Method: S 5035
Analyzed By: MS
Prepared By: BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		3.24	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.21	mg/Kg	10	0.200	110	0 - 160
4-Bromofluorobenzene (4-BFB)		2.64	mg/Kg	10	0.200	132	0 - 174

Sample: 56570 - SM-17

Analysis: TPH DRO
QC Batch: 16394
Prep Batch: 14482

Analytical Method: Mod. 8015B
Date Analyzed: 2005-03-07
Sample Preparation: 2005-03-07

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		3420	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[6]	453	mg/Kg	1	150	302	62.8 - 115

[6]High surrogate recovery due to peak interference.

Sample: 56570 - SM-17

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[7]	**22.4**	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.859	mg/Kg	100	0.0100	86	0 - 160
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	100	0.0100	114	0 - 174

Sample: 56571 - SM-18

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**3250**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[8]	403	mg/Kg	1	150	269	62.8 - 115

Sample: 56571 - SM-18

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[9]	**66.3**	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.960	mg/Kg	100	0.0100	96	0 - 160
4-Bromofluorobenzene (4-BFB)	[10]	2.11	mg/Kg	100	0.0100	211	0 - 174

Sample: 56573 - SM-20

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

continued ...

[7]Sample ran at a dilution due to [surfactants]
[8]High surrogate recovery due to peak interference.
[9]Sample ran at a dilution due to [surfactants]
[10]High surrogate recovery due to peak interference.

sample 56573 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**363**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[11]	188	mg/Kg	1	150	125	62.8 - 115

Sample: 56573 - SM-20

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**6.70**	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.14	mg/Kg	10	0.100	114	0 - 160
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	10	0.100	155	0 - 174

Sample: 56576 - SM-23

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**62.6**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	150	96	62.8 - 115

Sample: 56576 - SM-23

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.33**	mg/Kg	10	0.100

[11]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.10	mg/Kg	10	0.100	110	0 - 160
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	10	0.100	145	0 - 174

Sample: 56578 - SM-25

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1090**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[12]	249	mg/Kg	1	150	166	62.8 - 115

Sample: 56578 - SM-25

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[13]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.923	mg/Kg	100	0.0100	92	0 - 160
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	100	0.0100	105	0 - 174

Sample: 56580 - SM-27

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		148	mg/Kg	1	150	99	62.8 - 115

[12]High surrogate recovery due to peak interference.
[13]Sample ran at a dilution due to [surfactants]

Sample: 56580 - SM-27

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	10	0.100	112	0 - 160
4-Bromofluorobenzene (4-BFB)		1.46	mg/Kg	10	0.100	146	0 - 174

Sample: 56582 - SM-29

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		65.4	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	62.8 - 115

Sample: 56582 - SM-29

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.927	mg/Kg	10	0.100	93	0 - 160
4-Bromofluorobenzene (4-BFB)		1.25	mg/Kg	10	0.100	125	0 - 174

Sample: 56586 - QUAD 4C

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

continued ...

sample 56586 continued...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1870**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[14]	282	mg/Kg	1	150	188	62.8 - 115

Sample: 56586 - QUAD 4C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[15]	**95.5**	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.854	mg/Kg	100	0.0100	85	0 - 160
4-Bromofluorobenzene (4-BFB)	[16]	7.26	mg/Kg	100	0.0100	726	0 - 174

Sample: 56590 - SP-6

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**9630**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[17]	840	mg/Kg	5	30.0	560	62.8 - 115

Sample: 56590 - SP-6

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[18]	**485**	mg/Kg	100	0.100

[14]High surrogate recovery due to peak interference.
[15]Sample ran at a dilution due to [surfactants]
[16]High surrogate recovery due to peak interference.
[17]High surrogate recovery due to peak interference.
[18]Sample ran at a dilution due to surfactants

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.928	mg/Kg	100	0.0100	93	0 - 160
4-Bromofluorobenzene (4-BFB)	[19]	35.7	mg/Kg	100	0.0100	3570	0 - 174

Sample: 56591 - SP-7

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**7430**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[20]	830	mg/Kg	5	30.0	553	62.8 - 115

Sample: 56591 - SP-7

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[21]	**84.0**	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	100	0.0100	102	0 - 160
4-Bromofluorobenzene (4-BFB)		1.64	mg/Kg	100	0.0100	164	0 - 174

Sample: 56592 - SP-8

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	16394	Date Analyzed:	2005-03-07	Analyzed By:	BP
Prep Batch:	14482	Sample Preparation:	2005-03-07	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2890**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[22]	316	mg/Kg	1	150	211	62.8 - 115

[19]High surrogate recovery due to peak interference.
[20]High surrogate recovery due to peak interference.
[21]Sample ran at a dilution due to [surfactants]
[22]High surrogate recovery due to peak interference.

Sample: 56592 - SP-8

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	16469	Date Analyzed:	2005-03-08	Analyzed By:	MS
Prep Batch:	14537	Sample Preparation:	2005-03-08	Prepared By:	BL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[23]	177	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.997	mg/Kg	100	0.0100	100	0 - 160
4-Bromofluorobenzene (4-BFB)	[24]	8.81	mg/Kg	100	0.0100	881	0 - 174

Method Blank (1) QC Batch: 16394

Parameter	Flag	MDL Result	Units	RL
DRO		<7.24	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		134	mg/Kg	1	150	89	62.8 - 115

Method Blank (1) QC Batch: 16469

Parameter	Flag	MDL Result	Units	RL
GRO		1.70	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.918	mg/Kg	10	0.100	92	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.617	mg/Kg	10	0.100	62	50.7 - 113

Method Blank (1) QC Batch: 16676

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<2.44	µg/Kg	1
Benzene		2.00	µg/Kg	1
Trichloroethene (TCE)		<7.08	µg/Kg	1
Toluene		4.20	µg/Kg	1
Chlorobenzene		<1.45	µg/Kg	1
Ethylbenzene		<2.03	µg/Kg	1
m,p-Xylene		<5.03	µg/Kg	1
o-Xylene		<2.03	µg/Kg	1

[23]Sample ran at a dilution due to [surfactants]
[24]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		461	µg/Kg	10	50.0	92	70 - 130
Toluene-d8		503	µg/Kg	10	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)		497	µg/Kg	10	50.0	99	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 16394

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	274	274	mg/Kg	1	250	<7.24	110	0	68.4 - 128	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	155	147	mg/Kg	1	150	103	98	62.8 - 115

Laboratory Control Spike (LCS-1) QC Batch: 16469

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	8.36	8.62	mg/Kg	10	1.00	<0.381	84	3	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.04	0.970	mg/Kg	10	0.100	104	97	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.944	0.984	mg/Kg	10	0.100	94	98	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 16676

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	890	888	µg/Kg	10	100	<2.44	89	0	70 - 130	20
Benzene	1030	1030	µg/Kg	10	100	2	103	0	70 - 130	20
Trichloroethene (TCE)	980	975	µg/Kg	10	100	<7.08	98	0	70 - 130	20
Toluene	1010	1010	µg/Kg	10	100	4.2	101	0	70 - 130	20
Chlorobenzene	1030	1040	µg/Kg	10	100	<1.45	103	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	488	485	µg/Kg	10	50.0	98	97	70 - 130
Toluene-d8	515	512	µg/Kg	10	50.0	103	102	70 - 130
4-Bromofluorobenzene (4-BFB)	505	502	µg/Kg	10	50.0	101	100	70 - 130

Matrix Spike (MS-1) QC Batch: 16394 Spiked Sample: 56568

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	243	250	mg/Kg	1	250	<7.24	97	3	51.3 - 133	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	136	136	mg/Kg	1	150	91	91	62.8 - 115

Matrix Spike (MS-1) QC Batch: 16469 Spiked Sample: 56568

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.3	12.2	mg/Kg	10	1.00	<0.381	123	1	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.00	1.02	mg/Kg	10	0.1	100	102	0 - 160
4-Bromofluorobenzene (4-BFB)	1.50	1.44	mg/Kg	10	0.1	150	144	0 - 174

Standard (ICV-1) QC Batch: 16394

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	258	103	75 - 125	2005-03-07

Standard (CCV-1) QC Batch: 16394

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	282	113	75 - 125	2005-03-07

Standard (CCV-2) QC Batch: 16394

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	291	116	75 - 125	2005-03-07

Standard (CCV-3) QC Batch: 16394

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	289	116	75 - 125	2005-03-07

Standard (ICV-1) QC Batch: 16469

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.907	91	85 - 115	2005-03-08

Standard (CCV-1) QC Batch: 16469

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.978	98	85 - 115	2005-03-08

Standard (CCV-2) QC Batch: 16469

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.923	92	85 - 115	2005-03-08

Standard (CCV-1) QC Batch: 16676

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/Kg	50.0	50.2	100	80 - 120	2005-03-14
1,1-Dichloroethene		µg/Kg	50.0	49.0	98	80 - 120	2005-03-14
Chloroform		µg/Kg	50.0	48.7	97	80 - 120	2005-03-14
1,2-Dichloropropane		µg/Kg	50.0	51.4	103	80 - 120	2005-03-14
Toluene		µg/Kg	50.0	51.1	102	80 - 120	2005-03-14
Chlorobenzene		µg/Kg	50.0	51.6	103	80 - 120	2005-03-14
Ethylbenzene		µg/Kg	50.0	53.7	107	80 - 120	2005-03-14

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Bill To (if different):
Company Name: PLAINS
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Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4	Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: mod 8015 Dro/Gro											RUSH TAT (Pre-Scheduled) HOLD	Standard TAT
SM-1	3/3/05	12:10	1		X	56554	X											X		X											X	X
SM-2		12:20				55																									X	
SM-3		12:30				56														X											X	
SM-4		12:40				57																									X	
SM-5		12:50				58																									X	
SM-6		13:00				59														X												
SM-7		12:10				60														X												
SM-8		13:20				61																									X	
SM-9		13:30				62																									X	
SM-10		13:40				63																									X	

10 4am-MS

Special Instructions (such as special QC requirements, lists, methods, etc...)

ANALYZE HIGHEST [redacted] XX TPH RESULT FOR BTEX METHOD (8260B)

ANY QUESTIONS PLEASE CALL!

3° Temperature upon receipt (Consistent with NELAC sec. 5.(1) (>0.6°C)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time	
[signature]	NOVA	3/4/05	4:02	Helen Kelly	Trace Analysis	3/04/05	1602	YES
Helen Kelly	Trace Analysis	03/04/05	1730	[signature]		3/5/05	9:45 am	NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

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CHAIN-OF-CUSTODY

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SOUTH MONUMENT GATHERING SOUR

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: NOVA
Address: 2057 COMMERCE
City: MIDLAND State: TX Zip: 79703
ATTN: CURT STANLEY
Phone: 432-520-7720 Fax: 432-520-7701
Project Name/PO#: 2001-11193 Sampler: Curt Stanley

Bill To (if different):
Company Name: PLAINS
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling. QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: MOD 8015 (DRO/GRO)	HOLD	RUSH TAT (Pre-Scheduled)	Standard TAT
SM-11	3/3/05	13:50	1		X	51564	X										X		X	X		X
SM-12		14:00				65														X		
SM-13		14:10				66													X			
SM-14		14:20				67													X			
SM-15		14:30				68													X			
SM-16		14:40				69														X		
SM-17		14:50				70													X			
SM-18		15:00				71													X			
SM-19		15:10				72														X		
SM-20		15:20				73													X			

Special Instructions (such as special QC requirements, lists, methods, etc...)
ANALYZE HIGHEST SM-XX TPH RESULT FOR BTEX METHOD (8260)B
ANY QUESTIONS PLEASE CALL!

10 LAM + M/S

3°
Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C)

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Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
C. Stanley	NOVA	3/4/05	4:02	Helen Kelton	ANALYSYS	3/04/05	1600
Helen Kelton	ANALYSYS	3/04/05	1730			3/5/05	9:45am

YES / NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

MD

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SOUTH MONUMENT GATHERING SOUR

ANALYSYS INC.
3512 Monopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To: NOVA
Company Name: NOVA
Address: 2057 COMMERCE
City: MIDLAND State: TX Zip: 79703
ATTN: CURT STANLEY
Phone: 432-520-7720 Fax: 432-520-7701
Project Name/PO#: 2001-11193 Sampler: C. Stanley

Bill To (if different): PLAINS
Company Name: PLAINS
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: MBO BTEX (8260B)	TPH (8015 GRO)	HOLD	RUSH TAT (Pre-Scheduled)	Standard TAT
SM-21	3/3/05	15:30	1		X	51674	X										X		X	X	X		X
SM-22		15:40				75															X		
SM-23		15:50				76													X				
SM-24		16:00				77															X		
SM-25		16:10				78													X				
SM-26		16:20				79															X		
SM-27		16:30				80													X				
SM-28		16:40				81															X		
SM-29		16:50				82													X				
SM-30		17:00				83															X		

Special Instructions (such as special QC requirements, lists, methods, etc...)
ANALYZE HIGHEST SM-XX TPH RESULT FOR BTEX METHOD (8260B)
ANY QUESTIONS PLEASE CALL

10 days - NS

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all QC procedures.

3° Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C)

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
C. Stanley	NOVA	3/4/05	4:02	Helen Shelton	Analysys	3/04/05	1602
Helen Shelton	Analysys	3/04/05	1730	Shonny Niles		3/5/05	9:45am

YES / NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

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CHAIN-OF-CUSTODY

www.analysysinc.com

South Monument Gathering Sour

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: NOVA
Address: 2057 Commerce
City: Midland State: TX Zip: 79703
ATTN: Curt Stanley
Phone: 432-520-7720 Fax: 432-520-7699
Project Name/PO#: 2001-11193 Sampler: Curt Stanley

Bill To (if different):
Company Name: Plains
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of-Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCl	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: MBO (DRO/GRO)									RUSH TAT (Pre-Scheduled)	Standard TAT
QUAD 4A	3/3/05	17:10	1		X	56589	X										X												X	HOLD
QUAD 4B		17:20				85																							X	
QUAD 4C		17:30				86													X											
QUAD 4D		17:40				87																							X	
QUAD 4E		17:50				88																							X	
QUAD 4F		18:00				89																							X	
SP-6		18:10				90													X											
SP-7		18:20				91													X											
SP-8		18:30				92													X											X
																													X	

Special Instructions (such as special QC requirements, lists, methods, etc...)

9 days - (1)

3° Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C)

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Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
Curt Stanley	NOVA	3/4/05	4:02	Kelly Hattox	Trace Analysis	3/04/05	1602
Kelly Hattox	Trace Analysis	3/04/05	1730	Sharon Hall		3/5/05	9:45

YES / NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

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SOUTH MONUMENT GATHERING SOUR

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411
2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:
Company Name: NOVA
Address: 2057 COMMERCE
City: MIDLAND State: TX Zip: 79703
ATTN: CURT STANLEY
Phone: 432.520.7720 Fax: 432.520.7701
Project Name/PO#: 2001-11193 Sampler: CURT STANLEY

Bill To (if different):
Company Name: PLAINS
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and MUST BE IDENTIFIED on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: MRO 8021 (GRO/DRO)										RUSH TAT (Pre-Scheduled)	Standard TAT
DEEP WALL	3/3/05	18:40	1		X	56593	X										X												X HOLD	
SHALLOW WALL	3/3/05	18:50	1		X	94	X										X												X	X

Special Instructions (such as special QC requirements, lists, methods, etc...)

2 samples- HS

30
Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C)

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Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time	
	NOVA	3/4/05	4:02		Trace Analysis	3/4/05	1602	YES
	Trace Analysis	3/04/05	17:30			3/5/05	9:45am	NO

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

419

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: Monument Gathering Sour

Project Number: 2001-11193

Location: Monument, NM

Lab Order Number: 6G27006

Report Date: 08/02/06

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

Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB#1@ 5'	6G27006-01	Soil	2006-07-25 10:20	2006-07-27 11:49
SB#1@ 10'	6G27006-02	Soil	2006-07-25 10:30	2006-07-27 11:49
SB#1@ 15'	6G27006-03	Soil	2006-07-25 10:40	2006-07-27 11:49
SB#1@ 20'	6G27006-04	Soil	2006-07-25 10:50	2006-07-27 11:49
SB#2@ 15'	6G27006-05	Soil	2006-07-25 13:50	2006-07-27 11:49
SB#2@ 30'	6G27006-06	Soil	2006-07-25 14:20	2006-07-27 11:49
SB#3@ 15'	6G27006-07	Soil	2006-07-25 15:20	2006-07-27 11:49
SB#3@ 30'	6G27006-08	Soil	2006-07-25 15:50	2006-07-27 11:49
SB#4@ 15'	6G27006-09	Soil	2006-07-25 17:30	2006-07-27 11:49
SB#4@ 30'	6G27006-10	Soil	2006-07-25 18:00	2006-07-27 11:49

Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB#1@ 5' (6G27006-01) Soil									
Carbon Ranges C6-C12	**1990**	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	**5060**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**310**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**7360**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*167 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*178 %*	*70-130*		"	"	"	"	*S-04*
SB#1@ 10' (6G27006-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62717	07/27/06	07/31/06	EPA 8015M	
Carbon Ranges C12-C28	**10.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**10.7**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.0 %*	*70-130*		"	"	"	"	
SB#1@ 15' (6G27006-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*118 %*	*70-130*		"	"	"	"	
SB#1@ 20' (6G27006-04) Soil									
Carbon Ranges C6-C12	**30.7**	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	**160**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**191**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*118 %*	*70-130*		"	"	"	"	

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

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

Project: Monument Gathering Sour
Project Number: 2001-11193
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	Notes
SB#2@ 15' (6G27006-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
SB#2@ 30' (6G27006-06) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*124 %*	*70-130*		"	"	"	"	
SB#3@ 15' (6G27006-07) Soil									
Carbon Ranges C6-C12	**191**	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	**1300**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**156**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**1650**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*144 %*	*70-130*		"	"	"	"	*S-04*
SB#3@ 30' (6G27006-08) Soil									
Carbon Ranges C6-C12	**J [1.57]**	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	J
Carbon Ranges C12-C28	**19.2**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**19.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	

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

Project: Monument Gathering Sour
Project Number: 2001-11193
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	Notes
SB#4@ 15' (6G27006-09) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	**J [4.52]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	
SB#4@ 30' (6G27006-10) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62718	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	**J [3.04]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*120 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB#1@ 5' (6G27006-01) Soil									
% Moisture	**6.0**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#1@ 10' (6G27006-02) Soil									
% Moisture	**14.4**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#1@ 15' (6G27006-03) Soil									
% Moisture	**12.9**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#1@ 20' (6G27006-04) Soil									
% Moisture	**16.1**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#2@ 15' (6G27006-05) Soil									
% Moisture	**13.4**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#2@ 30' (6G27006-06) Soil									
% Moisture	**14.6**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#3@ 15' (6G27006-07) Soil									
% Moisture	**4.7**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#3@ 30' (6G27006-08) Soil									
% Moisture	**9.2**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#4@ 15' (6G27006-09) Soil									
% Moisture	**6.3**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	
SB#4@ 30' (6G27006-10) Soil									
% Moisture	**9.2**	0.1	%	1	EG62801	07/27/06	07/28/06	% calculation	

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

Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EG62717 - Solvent Extraction (GC)										
Blank (EG62717-BLK1)				Prepared: 07/27/06 Analyzed: 07/28/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.7*		*mg/kg*	*50.0*		*95.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.4*		*"*	*50.0*		*88.8*	*70-130*			
LCS (EG62717-BS1)				Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	507	10.0	mg/kg wet	500		101	75-125			
Carbon Ranges C12-C28	570	10.0	"	500		114	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1080	10.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*61.3*		*mg/kg*	*50.0*		*123*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.7*		*"*	*50.0*		*103*	*70-130*			
Calibration Check (EG62717-CCV1)				Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	207		mg/kg	250		82.8	80-120			
Carbon Ranges C12-C28	291		"	250		116	80-120			
Total Hydrocarbons	498		"	500		99.6	80-120			
Surrogate: 1-Chlorooctane	*64.5*		*"*	*50.0*		*129*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.6*		*"*	*50.0*		*129*	*70-130*			
Matrix Spike (EG62717-MS1)	**Source: 6G26001-17**			Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	497	10.0	mg/kg dry	544	ND	91.4	75-125			
Carbon Ranges C12-C28	510	10.0	"	544	ND	93.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1010	10.0	"	1090	ND	92.7	75-125			
Surrogate: 1-Chlorooctane	*52.3*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.8*		*"*	*50.0*		*81.6*	*70-130*			

Plains All American EH & S
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Project: Monument Gathering Sour
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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 EG62717 - Solvent Extraction (GC)										
Matrix Spike Dup (EG62717-MSD1)	**Source: 6G26001-17**			Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	517	10.0	mg/kg dry	544	ND	95.0	75-125	3.94	20	
Carbon Ranges C12-C28	545	10.0	"	544	ND	100	75-125	6.64	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1060	10.0	"	1090	ND	97.2	75-125	4.83	20	
Surrogate: 1-Chlorooctane	*60.0*		*mg/kg*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Batch EG62718 - Solvent Extraction (GC)										
Blank (EG62718-BLK1)				Prepared: 07/27/06 Analyzed: 07/28/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*56.8*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.0*		*"*	*50.0*		*112*	*70-130*			
LCS (EG62718-BS1)				Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	565	10.0	mg/kg wet	500		113	75-125			
Carbon Ranges C12-C28	511	10.0	"	500		102	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1080	10.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*63.3*		*mg/kg*	*50.0*		*127*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.2*		*"*	*50.0*		*114*	*70-130*			
Calibration Check (EG62718-CCV1)				Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	295		mg/kg	250		118	80-120			
Carbon Ranges C12-C28	253		"	250		101	80-120			
Total Hydrocarbons	548		"	500		110	80-120			
Surrogate: 1-Chlorooctane	*62.8*		*"*	*50.0*		*126*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.5*		*"*	*50.0*		*129*	*70-130*			

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Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

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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 EG62718 - Solvent Extraction (GC)										
Matrix Spike (EG62718-MS1)	**Source: 6G27006-03**			Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	566	10.0	mg/kg dry	574	ND	98.6	75-125			
Carbon Ranges C12-C28	491	10.0	"	574	ND	85.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1060	10.0	"	1150	ND	92.2	75-125			
Surrogate: 1-Chlorooctane	*54.8*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Matrix Spike Dup (EG62718-MSD1)	**Source: 6G27006-03**			Prepared: 07/27/06 Analyzed: 07/28/06						
Carbon Ranges C6-C12	657	10.0	mg/kg dry	574	ND	114	75-125	14.9	20	
Carbon Ranges C12-C28	557	10.0	"	574	ND	97.0	75-125	12.6	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1210	10.0	"	1150	ND	105	75-125	13.2	20	
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.9*		*"*	*50.0*		*102*	*70-130*			

Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

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 EG62801 - General Preparation (Prep)										
Blank (EG62801-BLK1)				Prepared: 07/27/06 Analyzed: 07/28/06						
% Solids	100		%							
Duplicate (EG62801-DUP1)		**Source: 6G27006-03**		Prepared: 07/27/06 Analyzed: 07/28/06						
% Solids	87.8		%		87.1			0.800	20	

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 8/2/2006

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

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Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: CURT STANLEY (CREYNOLDS PLAINS PM)
Company Name: NOVA SAFETY & ENVIRONMENTAL
Company Address: 2057 COMMERCE
City/State/Zip: MIDLAND, TX 79703
Telephone No: 432-520-7720 Fax No: 432-520-7701
Sampler Signature: C.D. Stanley

Project Name: SOUTH MONUMENT GATHERING SYS
Project #: 2001-11193
Project Loc: MONUMENT, NM
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 / 8015M 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
7/27/06		2006		40 5																							
-01	SB#1 @ 5'	7/25	10:20	1	X									X		X										X	
-02	SB#1 @ 10'		10:30																								
-03	SB#1 @ 15'		10:40																								
-04	SB#1 @ 20'		10:50																								
-05	SB#2 @ 15'		13:50																								
-06	SB#2 @ 30'		14:20																								
-07	SB#3 @ 15'		15:20																								
-08	SB#3 @ 30'		15:50																								
-09	SB#4 @ 15'		17:30																								
-10	SB #4 @ 30'		18:00																								

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 5.0 °C
Laboratory Comments: id written on lid no seals

Relinquished by:	Date	Time	Received by:	Date	Time
C.D. Stanley	7/27/06	11:49			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Diane McMurry	07-27-06	1149

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 7/27/04 11:49

Lab ID # : 6G27009

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	5.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont. (Lid)	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

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: Monument Gathering Sour

Project Number: 2001-11193

Location: Monument, NM

Lab Order Number: 6I19003

Report Date: 09/21/06

Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T1 @ 12'	6I19003-01	Soil	09/13/06 07:40	09-19-2006 12:33
T1 @ 6'	6I19003-02	Soil	09/13/06 07:48	09-19-2006 12:33
T2 @ 8'	6I19003-03	Soil	09/13/06 08:10	09-19-2006 12:33
T3 @ 8'	6I19003-04	Soil	09/13/06 08:35	09-19-2006 12:33
T4 @ 8'	6I19003-05	Soil	09/13/06 08:55	09-19-2006 12:33
T5 @ 4'	6I19003-06	Soil	09/13/06 09:20	09-19-2006 12:33

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1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T1 @ 12' (6I19003-01) Soil									
Carbon Ranges C6-C12	**19.5**	10.0	mg/kg dry	1	EI61908	09/19/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	**162**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**27.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**209**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
T1 @ 6' (6I19003-02) Soil									
Carbon Ranges C6-C12	**1530**	10.0	mg/kg dry	1	EI61908	09/19/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	**3250**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**278**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**5060**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*133 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*96.4 %*	*70-130*		"	"	"	"	
T2 @ 8' (6I19003-03) Soil									
Carbon Ranges C6-C12	**1620**	10.0	mg/kg dry	1	EI61908	09/19/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	**2860**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**274**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**4750**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*146 %*	*70-130*		"	"	"	"	*S-04*
T3 @ 8' (6I19003-04) Soil									
Carbon Ranges C6-C12	**4010**	10.0	mg/kg dry	1	EI61908	09/19/06	09/20/06	EPA 8015M	
Carbon Ranges C12-C28	**6740**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**408**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**11200**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*172 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

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Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T4 @ 8' (6I19003-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI61908	09/19/06	09/20/06	EPA 8015M	
Carbon Ranges C12-C28	**19.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**19.7**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
T5 @ 4' (6I19003-06) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI61908	09/19/06	09/20/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	

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1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T1 @ 12' (6I19003-01) Soil									
% Moisture	**10.6**	0.1	%	1	EI62004	09/19/06	09/20/06	% calculation	
T1 @ 6' (6I19003-02) Soil									
% Moisture	**10.8**	0.1	%	1	EI62004	09/19/06	09/20/06	% calculation	
T2 @ 8' (6I19003-03) Soil									
% Moisture	**14.2**	0.1	%	1	EI62004	09/19/06	09/20/06	% calculation	
T3 @ 8' (6I19003-04) Soil									
% Moisture	**22.2**	0.1	%	1	EI62004	09/19/06	09/20/06	% calculation	
T4 @ 8' (6I19003-05) Soil									
% Moisture	**15.8**	0.1	%	1	EI62004	09/19/06	09/20/06	% calculation	
T5 @ 4' (6I19003-06) Soil									
% Moisture	**13.8**	0.1	%	1	EI62004	09/19/06	09/20/06	% 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 EI61908 - Solvent Extraction (GC)										
Blank (EI61908-BLK1)				Prepared & Analyzed: 09/19/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*39.7*		*mg/kg*	*50.0*		*79.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.0*		*"*	*50.0*		*102*	*70-130*			
LCS (EI61908-BS1)				Prepared & Analyzed: 09/19/06						
Carbon Ranges C6-C12	485	10.0	mg/kg wet	500		97.0	75-125			
Carbon Ranges C12-C28	418	10.0	"	500		83.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	903	10.0	"	1000		90.3	75-125			
Surrogate: 1-Chlorooctane	*51.9*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.7*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (EI61908-CCV1)				Prepared: 09/19/06 Analyzed: 09/20/06						
Carbon Ranges C6-C12	234		mg/kg	250		93.6	80-120			
Carbon Ranges C12-C28	281		"	250		112	80-120			
Total Hydrocarbons	515		"	500		103	80-120			
Surrogate: 1-Chlorooctane	*53.5*		*"*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.0*		*"*	*50.0*		*122*	*70-130*			
Matrix Spike (EI61908-MS1)	**Source: 6I19003-01**			Prepared & Analyzed: 09/19/06						
Carbon Ranges C6-C12	558	10.0	mg/kg dry	559	19.5	96.3	75-125			
Carbon Ranges C12-C28	724	10.0	"	559	162	101	75-125			
Carbon Ranges C28-C35	29.3	10.0	"	0.00	27.4		75-125			
Total Hydrocarbons	1310	10.0	"	1120	209	98.3	75-125			
Surrogate: 1-Chlorooctane	*51.6*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.2*		*"*	*50.0*		*112*	*70-130*			

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

Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EI61908 - Solvent Extraction (GC)										
Matrix Spike Dup (EI61908-MSD1)	**Source: 6I19003-01**			Prepared & Analyzed: 09/19/06						
Carbon Ranges C6-C12	549	10.0	mg/kg dry	559	19.5	94.7	75-125	1.63	20	
Carbon Ranges C12-C28	681	10.0	"	559	162	92.8	75-125	6.12	20	
Carbon Ranges C28-C35	28.2	10.0	"	0.00	27.4		75-125	3.83	20	
Total Hydrocarbons	1260	10.0	"	1120	209	93.8	75-125	3.89	20	
Surrogate: 1-Chlorooctane	*52.9*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.8*		*"*	*50.0*		*112*	*70-130*			

Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

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 EI62004 - General Preparation (Prep)										
Blank (EI62004-BLK1)				Prepared: 09/19/06 Analyzed: 09/20/06						
% Solids	100		%							
Duplicate (EI62004-DUP1)		**Source: 6I18013-01**		Prepared: 09/19/06 Analyzed: 09/20/06						
% Solids	97.5		%		97.2			0.308	20	
Duplicate (EI62004-DUP2)		**Source: 6I19004-10**		Prepared: 09/19/06 Analyzed: 09/20/06						
% Solids	94.9		%		94.8			0.105	20	

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K. Tuttle Date: 9/21/2006

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

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: CURT STANLEY
Company Name: NOVA SAFETY & ENVIRONMENTAL
Company Address: 2057 COMMERCE
City/State/Zip: MIDLAND, TX 79703
Telephone No: 432-520-7720 Fax No: 432-520-7701
Sampler Signature: C Stanley

Project Name: SOUTH MONUMENT GATHERING SOUR
Project #: 2001-11193
Project Loc: MONUMENT, NM
PO #: —
Report Format: ☒ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 6I19003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-01	T1@12'	—	—	9/13	7:40	1	X								SOIL			X											X
-02	T1@6'	—	—		7:48	1																							
-03	T2@8'	—	—		8:10																								
-04	T3@8'	—	—		8:35																								
-05	T4@8'	—	—		8:55																								
-06	T5@4'	—	—		9:20																								

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
C Stanley	09-19-06	1233			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jaime Mcmurry	09-19-06	1233

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Custody seals on container(s) Y (N)
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
rd on lid
Temperature Upon Receipt: 3.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

nt: Plains P/L - Nova Safety

/ Time: 09-19-06 @ 1233

ID #: 6I19003

als: JMM

Sample Receipt Checklist

				Client Initials
Temperature of container/ cooler?	(Yes)	No	3.0 °C	
Shipping container in good condition?	(Yes)	No		
Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
Chain of Custody present?	(Yes)	No		
Sample instructions complete of Chain of Custody?	(Yes)	No		
Chain of Custody signed when relinquished/ received?	(Yes)	No		
Chain of Custody agrees with sample label(s)?	(Yes)	No	(ID written on Cont./ Lid)	
Container label(s) legible and intact?	Yes	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
Containers supplied by ELOT?	(Yes)	No		
Samples in proper container/ bottle?	(Yes)	No	See Below	
Samples properly preserved?	(Yes)	No	See Below	
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(s)?	(Yes)	No	See Below	
All samples received within sufficient hold time?	(Yes)	No	See Below	
VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

ntact: _____ Contacted by: _____ Date/ Time: _____

egarding: _____

rrective Action Taken:

_____

_____

_____

eck all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

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: Monument Gathering Sour

Project Number: 2001-11193

Location: Monument, NM

Lab Order Number: 6L06007

Report Date: 12/15/06

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

Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1@ 15'	6L06007-01	Soil	11/30/06 14:30	12-06-2006 13:05
MW-1@ 25'	6L06007-02	Soil	11/30/06 14:50	12-06-2006 13:05
SB-5@ 7'	6L06007-03	Soil	12/01/06 08:20	12-06-2006 13:05
SB-5@ 15'	6L06007-04	Soil	12/01/06 08:40	12-06-2006 13:05
SB-5@ 20'	6L06007-05	Soil	12/01/06 08:50	12-06-2006 13:05
SB-6@ 15'	6L06007-06	Soil	12/01/06 09:10	12-06-2006 13:05
SB-6@ 25'	6L06007-07	Soil	12/01/06 09:20	12-06-2006 13:05
SB-7@ 15'	6L06007-08	Soil	12/01/06 10:00	12-06-2006 13:05
SB-7@ 25'	6L06007-09	Soil	12/01/06 10:10	12-06-2006 13:05
MW-2@ 15'	6L06007-10	Soil	12/01/06 11:10	12-06-2006 13:05
MW-2@ 25'	6L06007-11	Soil	12/01/06 11:20	12-06-2006 13:05
SB-8@ 15'	6L06007-12	Soil	12/04/06 09:25	12-06-2006 13:05
SB-8@ 25'	6L06007-13	Soil	12/04/06 09:35	12-06-2006 13:05
SB-9@ 15'	6L06007-14	Soil	12/04/06 10:10	12-06-2006 13:05
SB-9@ 25'	6L06007-15	Soil	12/04/06 10:20	12-06-2006 13:05
SB-10@ 15'	6L06007-16	Soil	12/04/06 10:55	12-06-2006 13:05
SB-10@ 25'	6L06007-17	Soil	12/04/06 11:05	12-06-2006 13:05
SB-11@ 15'	6L06007-18	Soil	12/04/06 11:30	12-06-2006 13:05
SB-11@ 25'	6L06007-19	Soil	12/04/06 11:40	12-06-2006 13:05
SB-11@ 30'	6L06007-20	Soil	12/04/06 11:50	12-06-2006 13:05
SB-12@ 5'	6L06007-21	Soil	12/04/06 14:10	12-06-2006 13:05
SB-12@ 10'	6L06007-22	Soil	12/04/06 14:20	12-06-2006 13:05
SB-12@ 15'	6L06007-23	Soil	12/04/06 14:30	12-06-2006 13:05
SB-12@ 25'	6L06007-24	Soil	12/04/06 14:50	12-06-2006 13:05
SB-13@ 5'	6L06007-25	Soil	12/04/06 15:15	12-06-2006 13:05
SB-13@ 15'	6L06007-26	Soil	12/04/06 15:30	12-06-2006 13:05
SB-13@ 25'	6L06007-27	Soil	12/04/06 15:45	12-06-2006 13:05
MW-3@ 10'	6L06007-28	Soil	12/04/06 16:20	12-06-2006 13:05
MW-3@ 15'	6L06007-29	Soil	12/04/06 16:30	12-06-2006 13:05
MW-3@ 25'	6L06007-30	Soil	12/04/06 16:50	12-06-2006 13:05

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Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1@ 15' (6L06007-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
MW-1@ 25' (6L06007-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.0 %*	*70-130*		"	"	"	"	
SB-5@ 7' (6L06007-03) Soil									
Carbon Ranges C6-C12	**1210**	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	
Carbon Ranges C12-C28	**2090**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**63.1**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**3360**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*139 %*	*70-130*		"	"	"	"	*S-04*
SB-5@ 15' (6L06007-04) Soil									
Benzene	**J [0.142]**	0.200	mg/kg dry	200	EL61314	12/13/06	12/13/06	EPA 8021B	J
Toluene	**1.58**	0.200	"	"	"	"	"	"	
Ethylbenzene	**6.55**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**26.7**	0.200	"	"	"	"	"	"	
Xylene (o)	**5.64**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*142 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**1420**	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	
Carbon Ranges C12-C28	**3170**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**100**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**4690**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*143 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*190 %*	*70-130*		"	"	"	"	*S-04*

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1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-5@ 20' (6L06007-05) Soil									
Carbon Ranges C6-C12	**J [4.57]**	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	J
Carbon Ranges C12-C28	**47.6**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**47.6**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
SB-6@ 15' (6L06007-06) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60616	12/06/06	12/07/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.8 %*	*70-130*		"	"	"	"	
SB-6@ 25' (6L06007-07) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.4 %*	*70-130*		"	"	"	"	
SB-7@ 15' (6L06007-08) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.6 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-7@ 25' (6L06007-09) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
MW-2@ 15' (6L06007-10) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	
MW-2@ 25' (6L06007-11) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*130 %*	*70-130*		"	"	"	"	
SB-8@ 15' (6L06007-12) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: Monument Gathering Sour	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2001-11193	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8@ 25' (6L06007-13) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.4 %*	*70-130*		"	"	"	"	
SB-9@ 15' (6L06007-14) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.0 %*	*70-130*		"	"	"	"	
SB-9@ 25' (6L06007-15) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	
SB-10@ 15' (6L06007-16) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*118 %*	*70-130*		"	"	"	"	

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Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10@ 25' (6L06007-17) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.8 %*	*70-130*		"	"	"	"	
SB-11@ 15' (6L06007-18) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.0 %*	*70-130*		"	"	"	"	
SB-11@ 25' (6L06007-19) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.6 %*	*70-130*		"	"	"	"	
SB-11@ 30' (6L06007-20) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.6 %*	*70-130*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-12@ 5' (6L06007-21) Soil									
Carbon Ranges C6-C12	**1110**	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**1350**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**26.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**2490**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*138 %*	*70-130*		"	"	"	"	*S-04*
SB-12@ 10' (6L06007-22) Soil									
Benzene	**J [0.105]**	0.200	mg/kg dry	200	EL61314	12/13/06	12/13/06	EPA 8021B	J
Toluene	**0.709**	0.200	"	"	"	"	"	"	
Ethylbenzene	**2.04**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**9.87**	0.200	"	"	"	"	"	"	
Xylene (o)	**2.56**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**464**	10.0	mg/kg dry	1	EL60702	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**1260**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**36.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**1760**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
SB-12@ 15' (6L06007-23) Soil									
Carbon Ranges C6-C12	**10.7**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**79.5**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**90.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.8 %*	*70-130*		"	"	"	"	

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Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-12@ 25' (6L06007-24) Soil									
Carbon Ranges C6-C12	**12.3**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**62.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**75.0**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	
SB-13@ 5' (6L06007-25) Soil									
Carbon Ranges C6-C12	**827**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**1850**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**43.1**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**2720**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*134 %*	*70-130*		"	"	"	"	*S-04*
SB-13@ 15' (6L06007-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL61314	12/13/06	12/14/06	EPA 8021B	
Toluene	**0.0445**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.198**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.856**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.191**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**63.8**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**217**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [4.73]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	**281**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-13@ 25' (6L06007-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL61314	12/13/06	12/13/06	EPA 8021B	
Toluene	**J [0.0120]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0243]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**ND**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0722**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**117**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	**502**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**14.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**633**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*72.1 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.7 %*	*70-130*		"	"	"	"	
MW-3@ 10' (6L06007-28) Soil									
Carbon Ranges C6-C12	**J [4.06]**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	J
Carbon Ranges C12-C28	**22.1**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**22.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.6 %*	*70-130*		"	"	"	"	
MW-3@ 15' (6L06007-29) Soil									
Carbon Ranges C6-C12	**J [3.79]**	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	J
Carbon Ranges C12-C28	**18.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**18.7**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*71.7 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.5 %*	*70-130*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3@ 25' (6L06007-30) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60703	12/07/06	12/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.6 %*	*70-130*		"	"	"	"	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1@ 15' (6L06007-01) Soil									
% Moisture	**10.8**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-1@ 25' (6L06007-02) Soil									
% Moisture	**10.7**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-5@ 7' (6L06007-03) Soil									
% Moisture	**11.5**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-5@ 15' (6L06007-04) Soil									
% Moisture	**9.3**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-5@ 20' (6L06007-05) Soil									
% Moisture	**15.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-6@ 15' (6L06007-06) Soil									
% Moisture	**4.3**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-6@ 25' (6L06007-07) Soil									
% Moisture	**11.4**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-7@ 15' (6L06007-08) Soil									
% Moisture	**3.3**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-7@ 25' (6L06007-09) Soil									
% Moisture	**10.7**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-2@ 15' (6L06007-10) Soil									
% Moisture	**3.9**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-2@ 25' (6L06007-11) Soil									
% Moisture	**9.9**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8@ 15' (6L06007-12) Soil									
% Moisture	**9.4**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-8@ 25' (6L06007-13) Soil									
% Moisture	**9.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-9@ 15' (6L06007-14) Soil									
% Moisture	**9.4**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-9@ 25' (6L06007-15) Soil									
% Moisture	**6.8**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-10@ 15' (6L06007-16) Soil									
% Moisture	**6.1**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-10@ 25' (6L06007-17) Soil									
% Moisture	**4.0**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-11@ 15' (6L06007-18) Soil									
% Moisture	**8.8**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-11@ 25' (6L06007-19) Soil									
% Moisture	**12.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-11@ 30' (6L06007-20) Soil									
% Moisture	**15.1**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-12@ 5' (6L06007-21) Soil									
% Moisture	**13.7**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-12@ 10' (6L06007-22) Soil									
% Moisture	**5.6**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-12@ 15' (6L06007-23) Soil									
% Moisture	**12.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-12@ 25' (6L06007-24) Soil									
% Moisture	**18.0**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-13@ 5' (6L06007-25) Soil									
% Moisture	**8.8**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-13@ 15' (6L06007-26) Soil									
% Moisture	**9.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
SB-13@ 25' (6L06007-27) Soil									
% Moisture	**6.2**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-3@ 10' (6L06007-28) Soil									
% Moisture	**4.7**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-3@ 15' (6L06007-29) Soil									
% Moisture	**11.7**	0.1	%	1	EL60615	12/06/06	12/07/06	% calculation	
MW-3@ 25' (6L06007-30) Soil									
% Moisture	**4.3**	0.1	%	1	EL60615	12/06/06	12/07/06	% 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 EL60616 - Solvent Extraction (GC)										
Blank (EL60616-BLK1)				Prepared: 12/06/06 Analyzed: 12/07/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*46.2*		*mg/kg*	*50.0*		*92.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.0*		*"*	*50.0*		*78.0*	*70-130*			
LCS (EL60616-BS1)				Prepared: 12/06/06 Analyzed: 12/07/06						
Carbon Ranges C6-C12	431	10.0	mg/kg wet	500		86.2	75-125			
Carbon Ranges C12-C28	395	10.0	"	500		79.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	826	10.0	"	1000		82.6	75-125			
Surrogate: 1-Chlorooctane	*54.7*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.9*		*"*	*50.0*		*89.8*	*70-130*			
Calibration Check (EL60616-CCV1)				Prepared: 12/06/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	202		mg/kg	250		80.8	80-120			
Carbon Ranges C12-C28	272		"	250		109	80-120			
Total Hydrocarbons	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*55.3*		*"*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.8*		*"*	*50.0*		*108*	*70-130*			
Matrix Spike (EL60616-MS1)	**Source: 6L06002-05**			Prepared: 12/06/06 Analyzed: 12/07/06						
Carbon Ranges C6-C12	634	10.0	mg/kg dry	616	ND	103	75-125			
Carbon Ranges C12-C28	579	10.0	"	616	ND	94.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1210	10.0	"	1230	ND	98.4	75-125			
Surrogate: 1-Chlorooctane	*61.6*		*mg/kg*	*50.0*		*123*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.3*		*"*	*50.0*		*129*	*70-130*			

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

Project: Monument Gathering Sour
Project Number: 2001-11193
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EL60616 - Solvent Extraction (GC)										
Matrix Spike Dup (EL60616-MSD1)	**Source: 6L06002-05**			Prepared: 12/06/06 Analyzed: 12/07/06						
Carbon Ranges C6-C12	648	10.0	mg/kg dry	616	ND	105	75-125	1.92	20	
Carbon Ranges C12-C28	572	10.0	"	616	ND	92.9	75-125	1.18	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1220	10.0	"	1230	ND	99.2	75-125	0.810	20	
Surrogate: 1-Chlorooctane	*62.7*		*mg/kg*	*50.0*		*125*	*70-130*			
Surrogate: 1-Chlorooctadecane	*63.3*		*"*	*50.0*		*127*	*70-130*			
Batch EL60702 - Solvent Extraction (GC)										
Blank (EL60702-BLK1)				Prepared: 12/07/06 Analyzed: 12/08/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*46.6*		*mg/kg*	*50.0*		*93.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.0*		*"*	*50.0*		*84.0*	*70-130*			
LCS (EL60702-BS1)				Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	434	10.0	mg/kg wet	500		86.8	75-125			
Carbon Ranges C12-C28	400	10.0	"	500		80.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	834	10.0	"	1000		83.4	75-125			
Surrogate: 1-Chlorooctane	*55.5*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.4*		*"*	*50.0*		*92.8*	*70-130*			
Calibration Check (EL60702-CCV1)				Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	274		mg/kg	250		110	80-120			
Carbon Ranges C12-C28	299		"	250		120	80-120			
Carbon Ranges C28-C35	0.00		"	0.00			80-120			
Total Hydrocarbons	573		"	500		115	80-120			
Surrogate: 1-Chlorooctane	*75.1*		*"*	*50.0*		*150*	*70-130*			*S-04*
Surrogate: 1-Chlorooctadecane	*70.0*		*"*	*50.0*		*140*	*70-130*			*S-04*

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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 EL60702 - Solvent Extraction (GC)										
Matrix Spike (EL60702-MS1)	**Source: 6L06007-07**			Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	522	10.0	mg/kg dry	564	ND	92.6	75-125			
Carbon Ranges C12-C28	498	10.0	"	564	ND	88.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1020	10.0	"	1130	ND	90.3	75-125			
Surrogate: 1-Chlorooctane	*56.7*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.3*		*"*	*50.0*		*90.6*	*70-130*			
Matrix Spike Dup (EL60702-MSD1)	**Source: 6L06007-07**			Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	495	10.0	mg/kg dry	564	ND	87.8	75-125	5.32	20	
Carbon Ranges C12-C28	450	10.0	"	564	ND	79.8	75-125	10.1	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	945	10.0	"	1130	ND	83.6	75-125	7.71	20	
Surrogate: 1-Chlorooctane	*53.3*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.1*		*"*	*50.0*		*94.2*	*70-130*			
Batch EL60703 - Solvent Extraction (GC)										
Blank (EL60703-BLK1)				Prepared: 12/07/06 Analyzed: 12/08/06						
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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.7*		*mg/kg*	*50.0*		*95.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.3*		*"*	*50.0*		*80.6*	*70-130*			
LCS (EL60703-BS1)				Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	448	10.0	mg/kg wet	500		89.6	75-125			
Carbon Ranges C12-C28	414	10.0	"	500		82.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	862	10.0	"	1000		86.2	75-125			
Surrogate: 1-Chlorooctane	*56.6*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.3*		*"*	*50.0*		*92.6*	*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 EL60703 - Solvent Extraction (GC)										
Calibration Check (EL60703-CCV1)				Prepared: 12/07/06 Analyzed: 12/09/06						
Carbon Ranges C6-C12	219		mg/kg	250		87.6	80-120			
Carbon Ranges C12-C28	254		"	250		102	80-120			
Total Hydrocarbons	473		"	500		94.6	80-120			
Surrogate: 1-Chlorooctane	*50.1*		"	*50.0*		*100*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.0*		"	*50.0*		*84.0*	*70-130*			
Matrix Spike (EL60703-MS1)		**Source: 6L06007-28**		Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	456	10.0	mg/kg dry	525	4.06	86.1	75-125			
Carbon Ranges C12-C28	426	10.0	"	525	22.1	76.9	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	882	10.0	"	1050	22.1	81.9	75-125			
Surrogate: 1-Chlorooctane	*51.9*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.0*		"	*50.0*		*90.0*	*70-130*			
Matrix Spike Dup (EL60703-MSD1)		**Source: 6L06007-28**		Prepared: 12/07/06 Analyzed: 12/08/06						
Carbon Ranges C6-C12	463	10.0	mg/kg dry	525	4.06	87.4	75-125	1.50	20	
Carbon Ranges C12-C28	435	10.0	"	525	22.1	78.6	75-125	2.19	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	898	10.0	"	1050	22.1	83.4	75-125	1.81	20	
Surrogate: 1-Chlorooctane	*56.4*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.6*		"	*50.0*		*87.2*	*70-130*			
Batch EL61314 - EPA 5030C (GC)										
Blank (EL61314-BLK1)				Prepared & Analyzed: 12/13/06						
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	*34.4*		*ug/kg*	*40.0*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.2*		"	*40.0*		*106*	*80-120*			

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Project Manager: Camille Reynolds

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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 EL61314 - EPA 5030C (GC)										
LCS (EL61314-BS1)				Prepared & Analyzed: 12/13/06						
Benzene	1.18	0.0250	mg/kg wet	1.25		94.4	80-120			
Toluene	1.31	0.0250	"	1.25		105	80-120			
Ethylbenzene	1.39	0.0250	"	1.25		111	80-120			
Xylene (p/m)	2.83	0.0250	"	2.50		113	80-120			
Xylene (o)	1.40	0.0250	"	1.25		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.0*		*ug/kg*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.7*		*"*	*40.0*		*109*	*80-120*			
Calibration Check (EL61314-CCV1)				Prepared: 12/13/06 Analyzed: 12/14/06						
Benzene	40.7		ug/kg	50.0		81.4	80-120			
Toluene	41.8		"	50.0		83.6	80-120			
Ethylbenzene	44.3		"	50.0		88.6	80-120			
Xylene (p/m)	86.2		"	100		86.2	80-120			
Xylene (o)	43.4		"	50.0		86.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.7*		*"*	*40.0*		*89.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.5*		*"*	*40.0*		*83.8*	*80-120*			
Matrix Spike (EL61314-MS1)		**Source: 6L13012-01**		Prepared: 12/13/06 Analyzed: 12/14/06						
Benzene	1.17	0.0250	mg/kg dry	1.44	ND	81.2	80-120			
Toluene	1.24	0.0250	"	1.44	ND	86.1	80-120			
Ethylbenzene	1.38	0.0250	"	1.44	ND	95.8	80-120			
Xylene (p/m)	2.84	0.0250	"	2.87	ND	99.0	80-120			
Xylene (o)	1.38	0.0250	"	1.44	ND	95.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.0*		*ug/kg*	*40.0*		*90.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.2*		*"*	*40.0*		*95.5*	*80-120*			
Matrix Spike Dup (EL61314-MSD1)		**Source: 6L13012-01**		Prepared: 12/13/06 Analyzed: 12/14/06						
Benzene	1.15	0.0250	mg/kg dry	1.44	ND	79.9	80-120	1.61	20	M8
Toluene	1.18	0.0250	"	1.44	ND	81.9	80-120	5.00	20	
Ethylbenzene	1.23	0.0250	"	1.44	ND	85.4	80-120	11.5	20	
Xylene (p/m)	2.48	0.0250	"	2.87	ND	86.4	80-120	13.6	20	
Xylene (o)	1.18	0.0250	"	1.44	ND	81.9	80-120	15.6	20	
Surrogate: a,a,a-Trifluorotoluene	*38.7*		*ug/kg*	*40.0*		*96.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.8*		*"*	*40.0*		*82.0*	*80-120*			

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Project Manager: Camille Reynolds

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL60615 - General Preparation (Prep)										
Blank (EL60615-BLK1)				Prepared: 12/06/06 Analyzed: 12/07/06						
% Solids	100		%							
Duplicate (EL60615-DUP1)		Source: 6L06001-01		Prepared: 12/06/06 Analyzed: 12/07/06						
% Solids	78.3		%		79.0			0.890	20	
Duplicate (EL60615-DUP2)		Source: 6L06007-02		Prepared: 12/06/06 Analyzed: 12/07/06						
% Solids	88.8		%		89.3			0.561	20	
Duplicate (EL60615-DUP3)		Source: 6L06007-22		Prepared: 12/06/06 Analyzed: 12/07/06						
% Solids	89.3		%		94.4			5.55	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
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: 12/15/2006

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 I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: CURT STANLEY, (C. REYNOLDS)
Company Name: NOVA SAFETY & ENVIRONMENTAL
Company Address: 2057 COMMERCE
City/State/Zip: MIDLAND, TX 79703
Telephone No: 432-520-7720 Fax No: 432-520-7701
Sampler Signature:

Project Name: (SOUTH) MONUMENT GATHERING SOUR
Project #: 2001-11193
Project Loc: MONUMENT, NM
PO #:

MSI

Analyze For:
TCLP:
TOTAL:

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):	TPH: 418.1 / 8015M / 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	RCI	N.O.R.M.	Total Gamma		RUSH TAT (Pre-Schedule)	Standard TAT
6-06-07		2006		403																									
-01	MW-1 @ 15'	11/30	14:30	1	X									X		X												X	
-02	MW-1 @ 25'	11/30	14:50	1																									
-03	SB-5 @ 7'	12/1	8:20																										
-04	SB-5 @ 15'	12/1	8:40																				X						
-05	SB-5 @ 20'	12/1	8:50																										
-06	SB-6 @ 15'	12/1	9:10																										
-07	SB-6 @ 25'	12/1	9:20																										
-08	SB-7 @ 15'	12/1	10:00																										
-09	SB-7 @ 25'	12/1	10:10																										
-10	MW-2 @ 15'	12/1	11:10	↓	↓									↓		↓												↓	

Special Instructions: FAX

Relinquished by:	Date	Time	Received by:	Date	Time
	12/6/06	13:05			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12-06-06	1305

Sample Containers Intact? Y N
Temperature Upon Receipt: 1.1C 0.5°C
Laboratory Comments:

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: CURT STANLEY (C. REYNOLDS)
Company Name: NOVA SAFETY & ENVIRONMENTAL
Company Address: 2057 COMMERCE
City/State/Zip: MIDLAND, TX 79703
Telephone No: 432-520-7720 Fax No: 432-520-7701
Sampler Signature:

Project Name: SOUTH MONUMENT GATHERING LINE SOUR
Project #: 2001-11193
Project Loc: MONUMENT, NM
PO #:

Analyze For: (GRO/DRO by 8015M) (BTEX by 8021B) (VOC by 8260B) (Metals by 6010B) (Chlorides by 300.0)
TCLP:
TOTAL:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	TPH: 418.1 / 8015M / 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	RCI	N.O.R.M.	Total Gamma		RUSH TAT (Pre-Schedule)	Standard TAT
11	MW-2 @ 25'	12/1/2006	11:20	1	X									X		X													X
12	SB-8 @ 15'	12/4	9:25	1																									
13	SB-8 @ 25'	12/4	9:35	1																									
14	SB-9 @ 15'	12/4	10:10																										
15	SB-9 @ 25'	12/4	10:20																										
16	SB-10 @ 15'	12/4	10:55																										
17	SB-10 @ 25'	12/4	11:05																										
18	SB-11 @ 15'	12/4	11:30																										
19	SB-11 @ 25'	12/4	11:40																										
20	SB-11 @ 30'	12/4	11:50	↓	↓									↓		↓													↓

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.7°C @ 3°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	12/6/06	13:05			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12-6-06	1320

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: CURT STANLEY (C. REYNOLDS)
Company Name: NOVA SAFETY & ENVIRONMENTAL
Company Address: 2057 COMMERCE
City/State/Zip: MIDLAND, TX 79703
Telephone No: 432-520-7720 Fax No: 432-520-7701
Sampler Signature:

Project Name: SOUTH MONUMENT GATHERING SOUR
Project #: 2001-11193
Project Loc: MONUMENT, NM
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 (8015M) 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	RCI	N.O.R.M.	Total Gamma			RUSH TAT (Pre-Schedule)	Standard TAT
-21	SB-12 @ 5'	12/4	14:10	1	X									X		X														X
-22	SB-12 @ 10'		14:20	1																			X							
-23	SB-12 @ 15'		14:30	1																										
-24	SB-12 @ 25'		14:50																											
-25	SB-13 @ 5'		15:15																											
-26	SB-13 @ 15'		15:30																				X							
-27	SB-13 @ 25'		15:45																				X							
-28	MW-3 @ 10'		16:20																											
-29	MW-3 @ 15'		16:30																											
-30	MW-3 @ 25'	↓	16:50	↓	↓									↓		↓														

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 1.6 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Curt O. Stanley	12/6/04	13:05			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12-6-04	13:05

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 12/6/00 13:05

Lab ID # : 00E0007

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	0.5 °C	
#2	Shipping container in good condition?	~~Yes~~	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	~~Not Present~~	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	~~Not Present~~	
#5	Chain of Custody present?	~~Yes~~	No		
#6	Sample instructions complete of Chain of Custody?	~~Yes~~	No		
#7	Chain of Custody signed when relinquished/ received?	~~Yes~~	No		
#8	Chain of Custody agrees with sample label(s)?	~~Yes~~	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	~~Yes~~	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
#11	Containers supplied by ELOT?	~~Yes~~	No		
#12	Samples in proper container/ bottle?	~~Yes~~	No	See Below	
#13	Samples properly preserved?	~~Yes~~	No	See Below	
#14	Sample bottles intact?	~~Yes~~	No		
#15	Preservations documented on Chain of Custody?	~~Yes~~	No		
#16	Containers documented on Chain of Custody?	~~Yes~~	No		
#17	Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
#18	All samples received within sufficient hold time?	~~Yes~~	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	~~Not Applicable~~	
#20	VOC samples have zero headspace?	~~Yes~~	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Jeanne McMurrey

From: "Curt Stanley" <cstanley@novatraining.cc>
To: "'Jeanne McMurrey'" <jeanne@elabtexas.com>; "'Daniel M. Bryant'" <dmbryant@paalp.com>; "'Kellie Carter'" <kscarter@paalp.com>; "'Camille Reynolds'" <cjreynolds@paalp.com>
Cc: "Todd Choban" <tchoban@novatraining.cc>
Sent: Wednesday, December 13, 2006 11:22 AM
Subject: RE: 6L06007

Jeanne,

Please run BTEX 8021b on soil samples:

SB-5 @ 15' (ID 6L06007-04)
SB-12 @10' (ID 6L6007-22)
SB-13 @ 15' (ID 6L6007-26)
SB-13 @ 25' (ID 6L6007-27)

Thank you,

Curt Stanley
NOVA

-----Original Message-----
From: Jeanne McMurrey [mailto:jeanne@elabtexas.com]
Sent: Wednesday, December 13, 2006 10:34 AM
To: Daniel M. Bryant; Kellie Carter; Camille Reynolds
Cc: Curt Stanley
Subject: RE: 6L06007

Jeanne McMurrey
Environmental Lab of Texas I, Ltd.
12600 West I-20 East
Odessa, Texas 79765
432-563-1800

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APPENDIX C:
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name South Monument Gathering Sour	Facility Type 6"Steel Pipeline

Surface Owner Jimmie Cooper	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	5	20S	37E					Lea

Latitude 32° 36'29.0" **Longitude** 103° 16' 26.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 1200 barrels	Volume Recovered 910 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 11-20-01	Date and Hour of Discovery 11-20-01
Was Immediate Notice Given? x Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Frank Hernandez	Date and Hour 11-20-01@16:15	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion of 6 inch steel pipeline resulted in crude oil release. Clamp was applied to the line to mitigate the release.

Describe Area Affected and Cleanup Action Taken.* The crude oil was vacuumed up and the impacted soil was excavated and stockpiled on plastic. Initial response activities included excavation and stockpiling of approximately 5,000 to 7,000 cubic yards of soil. Future response activities will include a soil and groundwater investigation and preparation of a remedial action plan.

NOTE: This information was obtained from historical EOTT files, Plains acquired EOTT/Link Energy on April 1, 2004 and Plains assumes this information to be correct.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached ☐
Date: 12-29-04 Phone:505-441-0965		

* Attach Additional Sheets If Necessary