SOILS REMEDIATION WORK PLAN VACUUM GATHERING 6" LEA COUNTY, NEW MEXICO SRS #2000-10833

Prepared for:

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RP#1274

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APR 2007 **Bceived**

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March 19, 2007

Soils Remediation Work Plan Vacuum Gathering Plains Marketing, L.P. Houston, Texas

Talon/LPE PROJECT NO. PLAINS006SPL

Prepared by:

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Kyle Summers Project Manager

K**y**le Waggoner

Senior Project Manager

Talon/LPE #9 East Industrial Loop Midland, Texas 79701

March 2007

SOILS REMEDIATION WORK PLAN

Introduction

The 6" Vacuum Gathering release site is located approximately 25 miles west of Hobbs in Lea County, New Mexico. The release occurred on property owned by Mr. Ken Smith and is utilized for cattle grazing. The site is located in a rural area in the Vacuum Oil Field, with no permanent residence or surface water within a 1,000-foot radius of the release point.

In December 2000, a release of approximately fifty (50) barrels of crude oil, of which eighteen (18) barrels were recovered, occurred at the site due to corrosion (internal and/or external) of the pipeline. Additionally, surficial soil saturated by the release was excavated and placed on a plastic liner.

In an effort to delineate the extent of impacted soil at the site, Environmental Plus, Inc. (EPI) advanced eighteen (18) soil borings to depths ranging from fifteen (15) to twenty (20) feet below ground surface (bgs) in December 2001. Laboratory analyses indicated concentrations exceeding the applicable New Mexico Oil Conservation Division (NMOCD) guidelines. Analytical results for soil samples collected during the EPI investigation are presented in Table 1.

Regulatory Framework

The NMOCD has developed guidance for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for Benzene, Total BTEX (benzene, toluene, ethylbenzene, and xylenes), and Total Petroleum Hydrocarbons (TPH). Based on site visits and a review of aerial photographs, the 6" Vacuum Gathering site is located in a rural area with no permanent residence or surface water within a 1,000-foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is a livestock well located approximately 1,600 feet to the southeast. This well is at an elevation approximately 50 feet lower than the elevation of the 6" Vacuum Gathering site, and the records indicate a depth to water of approximately 120 feet bgs. Based on this groundwater elevation data, the approximate depth to water at the site is 170 feet bgs.

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According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies the site ranking for this site is zero (0). The ranking process is summarized below:

Criteria:	Site Condition:	Ranking Score:
Depth to Groundwater	>100 feet	0
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	>1,000 feet	0

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	10 ppm
Total BTEX	50 ppm
ТРН	5,000 ppm

Additional Site Investigation Activities

On November 11, 2006, Talon/LPE advanced eight of the nine soil borings proposed in the Soils Remediation Work Plan dated August 8, 2006 and subsequently approved by the NMOCD. These borings were installed utilizing an air-rotary rig operated by Talon/LPE personnel. The soil boring locations were selected, based on prior sampling efforts, to evaluate the current subsurface conditions, validate the earlier sampling results, and determine if natural attenuation is occurring at the site. Confirmation borings were advanced adjacent to previously installed borings SB9 and SB8. Due to physical constraints, a single boring was advanced near the former locations of SB1 and SB3 (see Attachment 1), where two borings were originally planned. In addition, five (5)delineation borings were advanced to evaluate both the horizontal and vertical extent of impacted soils. The total depth of each boring was advanced ten (10) feet beyond the last measurable organic vapor photo-ionization-detector (PID) reading, or to a minimum depth of 25 feet bgs. Split spoon samples were collected at five (5) foot intervals to the total depth, with few exceptions due to lack of soil recovery. Talon/LPE's field geologist performed a physical inspection of the retrieved soil samples and then logged each sample interval using the Unified Soil Classification System (ASTM D2487-85). Soil boring locations and a site map are presented as Attachment 1 to this document.

Additional Site Investigation Results

The lithology at the site consists primarily of calcium carbonate-cemented soils (caliche) and silty- or clayey-sands, underlain at approximately 25 feet bgs by a fine-grained, well sorted sand. The soil borings ranged in total depth from 25 feet bgs to 35 feet bgs. Odors indicative of hydrocarbon impact were not encountered during the drilling operations. The highest PID reading observed during the drilling activities was 46 ppm at SB-25 from 9'-10' bgs. A complete account of the PID readings is recorded on the lithologic logs (see Attachment 2).

Soil samples from the borings were submitted to TraceAnalysis Laboratories in Midland, TX, under proper chain-of-custody procedures. The samples were analyzed for BTEX by

SW-846 Method 8021, and TPH by SW-846 Method 8015.

The soil sample collected from SB-25 (9'-10' bgs) exhibited a TPH concentration of 346.2 mg/kg. The soil sample collected from SB-25 (23'-25' bgs) exhibited a TPH concentration of 1.2 mg/kg. These concentrations are below the applicable NMOCD guideline of 5,000 mg/kg. Samples from the remaining seven (7) soil borings during this phase of the site investigation did not exhibit TPH concentrations above the laboratory reporting limit.

The soil sample collected from SB-25 (9'-10') exhibited a xylene concentration of 0.120 mg/kg, which is below the applicable NMOCD guideline (50 mg/kg for total BTEX). BTEX constituents were not detected above the laboratory reporting limit (0.0100 mg/kg) in the remaining samples from this investigative event. Analytical results from this phase of the investigation are summarized in Table 1. Complete laboratory data sheets and completed chain-of-custody forms are presented as Attachment 3.

Stockpile and Bottom of Excavation Sampling

On January 30, 2007, Talon/LPE collected a five aliquot composite sample from the existing stockpile. Additionally, two samples were collected from the bottom of the excavation at the site. The samples were submitted to TraceAnalysis Laboratories and analyzed for TPH using SW-846 Method 8015 and BTEX using SW-846 Method 8021.

Analytical results from the stockpile composite sample exhibited a TPH concentration of 69.27 mg/kg, and a xylene concentration of 30.6 μ g/kg. No additional BTEX constituents were detected in the stockpile sample above the laboratory reporting limit.

The bottom of excavation samples exhibited xylene concentrations of 30.3 μ g/kg (BH-1) and 25.6 μ g/kg (BH-2). No additional BTEX constituents were detected in the bottom of excavation samples above the laboratory reporting limit. TPH was not detected above the laboratory reporting limit for the bottom of excavation samples.

Reported analytical results from the stockpile composite sample and the bottom of excavation samples do not exceed the NMOCD guidelines. Summarized analytical results for the stockpile composite sample and the bottom of excavation samples are included in Table 1.

Proposed Remediation Activities

The additional site investigation results do not indicate the presence of a hydrocarbon impact at the site above the applicable NMOCD guidelines. Considering the period of time that has elapsed, this might be due to natural attenuation/degradation of the former release. However, due to the previously recorded evidence of impact to shallow soils at the site, it is possible that some residual soil impacts remain from the former release.

Talon/LPE recommends blending in place of shallow soils (0'-2' bgs) in the areas of

formerly detected impact at soil boring locations SB-8 and SB-9 and any other surface areas with visibly stained soils. No additional confirmation samples will be collected for laboratory analysis. Stockpiled soils will also be used as backfill, since analytical data documented TPH and BTEX concentrations below NMOCD guidelines.

Reporting Activities

Upon completion of the proposed activities, the findings will be compiled as a letter report and submitted to the NMOCD for approval. In the event that additional work is warranted by the sampling results, Talon/LPE will prepare an appropriate work plan for review by the NMOCD.

Conclusion

Prior to completion of these activities, Talon/LPE recommends that Plains submit this soil remediation work plan to the NMOCD for their approval.



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Summary of Current and Historic Soil Analytical Data Vacuum Gathering 6", Lea County, New Mexico LPE Project ID. PLAINS006SPL

					Conce	ntration			
			mg/Kg				р9/Кд		
Sample Designation	Date Sampled	୦୪୭	ояа	HqT IstoT	anaznaB	ənəuloT	ənəznədiyni	sənəlyX	XƏT8 IstoT
			For	ner Soil Bor	ing Data				
SB1-2'	12/14/01	717	1410	2127	1120.0	14300.0	13600.0	23310.0	52330.0
SB1-5'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB1-10'	12/14/01	149	297	446	28.0	2450.0	2170.0	3670.0	8318.0
SB1-15'	12/14/01	ъ	5	10	20.0	20.0	20.0	40.0	100.0
SB2-2'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB2-5'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB2-10	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB2-15'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB3-2'	12/14/01	681	551	1232	25.5	141.0	21.1	161.0	348.6
SB3-5'	12/14/01	2340	1800	4140	31900.0	37600.0	63300.0	114000.0	246800.0
SB3-10'	12/14/01	1660	1620	3280	2080.0	14900.0	24400.0	47900.0	89280.0
SB3-15'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB3-20'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB4-2'	12/14/01	5	18.4	23.4	20.0	20.0	20.0	40.0	100.0
SB4-5'	12/14/01	5	2	10	20.0	20.0	20.0	40.0	100.0
SB4-10'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB4-15'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB5-2'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB5-5'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB5-10'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB5-15'	12/14/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB6-2'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB6-5'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB6-10'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB6-15'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0

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Summary of Current and Historic Soil Analytical Data Vacuum Gathering 6", Lea County, New Mexico LPE Project ID. PLAINS006SPL

			27/2W			Unitation			
			Ru/Rim				6y/6rl		
Sample Designation	Date Sampled	୦୪୦	DRO	H9T IstoT	əuəzuəg	ənəuloT	€thylbenzene	səuəlyX	X3T8 IstoT
SB7-2'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB7-5'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB7-10'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB1-15'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB8-2'	12/17/01	2240	6610	8850	20.0	2280.0	666.0	3252.0	6218.0
SB8-5'	12/17/01	891	1770	2661	33.6	7750.0	5170.0	19950.0	32903.6
SB8-10'	12/17/01	ຎ	22.3	27.3	20.0	20.0	20.0	40.0	100.0
SB8-15'	12/17/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB9-2'	12/18/01	1220	10800	12020	20.0	1010.0	156.0	1709.0	2895.0
SB9-5'	12/18/01	395	507	902	20.0	1970.0	20.0	2130.0	4140.0
SB9-10'	12/18/01	S	5	10	20.0	20.0	20.0	40.0	100.0
SB9-15'	12/18/01	6.03	25.7	31.73	20.0	20.0	20.0	40.0	100.0
SB10-2'	12/18/01	ۍ	5	10	20.0	20.0	20.0	40.0	100.0
SB10-5'	12/18/01	2	5	10	20.0	20.0	20.0	40.0	100.0
SB10-10'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB10-15'	12/18/01	S	5 D	10	20.0	20.0	20.0	40.0	100.0
SB11-2'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB11-5'	12/18/01	ۍ	5	10	20.0	20.0	20.0	40.0	100.0
SB11-10'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB11-15'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB12-2'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB12-5'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB12-10'	12/18/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB12-15'	12/18/01	2 L	ۍ ا	0	20.0	20.0	20.0	40.0	1000

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Summary of Current and Historic Soil Analytical Data Vacuum Gathering 6", Lea County, New Mexico LPE Project ID. PLAINS006SPL

					Conce	Intration			
			mg/Kg				pg/Kg		
Sample Designation	Date Sampled	୦୪୨	ояа	H9T lejoT	əuəzuəg	ənəuloT	ənəznədiyitlə	sənəlyX	XƏT8 IstoT
SB13-2'	12/19/01	ۍ	2 2	10	20.0	20.0	20.0	40.0	100.0
SB13-5'	12/19/01	2	5	10	20.0	20.0	20.0	40.0	100.0
SB13-10'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB13-15'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB14-2'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB14-5'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB14-10 [°]	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB14-15'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB15-2'	12/19/01	2	2	10	20.0	20.0	20.0	40.0	100.0
SB15-5'	12/19/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB15-10'	12/19/01	2	5	10	20.0	20.0	20.0	40.0	100.0
SB15-15	12/19/01	ഹ	շ	10	20.0	20.0	20.0	40.0	100.0
5B16-2'	12/20/01	5	ъ	10	20.0	20.0	20.0	40.0	100.0
SB16-5'	12/20/01	5	ռ	10	20.0	20.0	20.0	40.0	100.0
SB16-10'	12/20/01	£	ъ	10	20.0	20.0	20.0	40.0	100.0
SB16-15'	12/20/01	ഹ	2	10	20.0	20.0	20.0	40.0	100.0
SB11-2	12/20/01	2	2	9	20.0	20.0	20.0	40.0	100.0
5817-5.	12/20/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB1/-10	12/20/01	2	5	10	20.0	20.0	20.0	40.0	100.0
SB17-15	12/20/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB18-2'	12/20/01	S	5	10	20.0	20.0	20.0	40.0	100.0
SB18-5'	12/20/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB18-10'	12/20/01	5	5	10	20.0	20.0	20.0	40.0	100.0
SB18-15'	12/20/01	5	5	10	20.0	20.0	20.0	40.0	100.0
			Current S	oil Boring Da	ta - 11/15/20	06			
SB-20 (1.5'-3')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-20 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-21 (1'-3')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-21 (35)	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0

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Summary of Current and Historic Soil Analytical Data Vacuum Gathering 6", Lea County, New Mexico LPE Project ID. PLAINS006SPL

					Conce	Intration			
			mg/Kg				6y/6rl		
Sample Designation	Date Sampled	୦୪୭	סאס	HqT IsjoT	əuəzuəg	ənəuloT	€thylbenzene	sənəlyX	XƏT8 IstoT
SB-21 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-22 (3'-5')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-22 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-22 (33'-35')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-23 (13:-15')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-23 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-24 (13'-15')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-24 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-25 (9'-10')	11/15/06	22.3	324	346.3	<10.0	<10.0	<10.0	120	120
SB-25 (23'-25')	11/15/06	1.20	<50.0	1.20	<10.0	<10.0	<10.0	<10.0	<10.0
SB-26 (13-15)	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-26 (25'-26')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-27 (13'-15')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
SB-27 (23'-25')	11/15/06	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
		Soil Stor	ckpile (SP) an	nd Bottom of	Excavation	(BH) Sample	90		
SP	01/30/07	2.97	66.3	69.27	<10.0	<10.0	<10.0	30.6	30.6
BH-1	01/30/07	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	30.3	30.3
BH-2	01/30/07	<1.00	<50.0	<50.0	<10.0	<10.0	<10.0	25.6	25.6
Applicable NMOCD	Guidelines			5.000	10,000				50,000

 $\gamma^* \beta$

GRO = Gasoline Range Organics DRO = Diesel Range Organics Total TPH = GRO + DRO





Attachment 2

.

PROJECT: Plains Marketing, LP PROJECT NUMBER: PLAINS006SPL

CLIENT: Plains Marketing, LP

BORING / WELL NUMBER: SB-20

TOTAL DEPTH: 25'

SURFACE ELEVATION: _____ GEOLOGIST: Kyle Summers

DRILLING COMPANY: <u>Talon Drilling, LP</u> DRILLER: <u>Jose Salas, Jr.</u> DRILLING METHOD: <u>Air Rotary</u> BORE HOLE DIAMETER: <u>5 5/8*</u>

SCREEN: Diam. _____ Length _____ Slot Size _____

CASING: Diam. _____ Length _____ Type _____

DATE DRILLED: November 15, 2006



PROJECT:	Plains Ma	rketing, LF)		
PROJECT N	IUMBER:	PLAINSO	06SPL	 	

CLIENT: Plains Marketing, LP

BORING / WELL NUMBER: SB-21

TOTAL DEPTH: 25'

DRILLING COMPANY: Talon Drilling, LP DRILLER: Jose Salas, Jr. DRILLING METHOD: Air Rotary BORE HOLE DIAMETER: 5 5/8" SCREEN: Diam. _____ Length _____ Slot Size ____

SURFACE ELEVATION: _____ CASING: Diam. ____ Length _____ Type ____ GEOLOGIST: Kyle Summers DATE DRILLED: November 15, 2006

PAGE 1 of 1

	DEPTH (FT.)	SYMBOL SOIL	WELL CONSTRUCTION	DIA	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM		DEPTH (FT.)
$\left \right $					Η			Topsoil, Moderate Yellowish Brown 10YR 5/4, Sandy/Silty w/Some	-	
						1'-		Calcium Carbonate Nodules	┢	1
				0.0		3'	2'6"	Weathered Calcium Carbonate, Pinkish Gray 5YR 8/1, Dry Powdery,		
				0.0		3'- 5'		Calcium Carbonate gets Hard @ 11'	┝	
F	5			1.6		0				5
		ند بر مرکز در کرکز کر								
		-/~~~~ 								
				0.0			11'		\vdash	10
								Hard Sandy Calcium Carbonate, Well Cemented, Dry		
	[H]						15'			15
				0.0				Weathered Calcium Carbonate, Pinkish Gray 5YR 8/1, Dry Powdery		10
20	, -	155 14								20
Γ				0.0						
		1.5.9								
						23'-	23	Very Fine-Fine Sand, Moderate Orange 10R 7/4, Some Calcium		
25	₅□			0.0		25'	25'			25
								Bottom of Hole @ 25'		
	Н									
30	24-1									30
	Н									
티		RKS								
			THIS BO	DRING LC	G S	HOULD NO	DT BE US	SED SEPARATE FROM THE ORIGINAL REPORT.	P	E

PROJ	IECT: <u>Pla</u>	ins Marketing, L	Р				DRILLING COMPANY: Talon Drilling, LP		
PROJ		IBER: <u>Plains</u>	006SPL				DRILLER: Jose Salas, Jr.		_
CLIEN	NT: Plains	Marketing, LP					DRILLING METHOD: Air Rotary		_
BORI	NG / WEL	L NUMBER: SE	3-22				BORE HOLE DIAMETER: 5 5/8"		
ΤΟΤΑ	L DEPTH:	35'					SCREEN: Diam. Length Slot Size		
SURF	ACE ELE						CASING: Diam. Length Type		_
GEOL	OGIST:	Kyle Summers					DATE DRILLED: November 15, 2006		
	_	-	_			_	PA	GE 1 of	2
ЕРТН (FT.)	BOL	L ISTRUCTION		PLES	PLE ERVAL	CRIPTION RVAL	DESCRIPTION OF STRATUM	тн (FT.)	
	SYM	CON	미급	SAM	SAM	DES		DEP	
				Π					
							Cut out - Excavation		1
]					3'			
	144				3'-		Silty Clayey Sand, Moderate Brown 5YR 4/4, Stiff but Non-Plastic, Slight		
					5'		Moisture, No Odor	\vdash	
5			0.0					⊢ -•	-
	and the second								
	1.55								
	1.2.2								
	1. 2 A / A / A								
10	/////		0.0	$\left - \right $		9.6"	Calcium Carbonate, Weathered w/Sand, Slightly Moist but Dries below	10)
	$\langle / / \rangle$		0.0				10'		٦
				\square		13	Sand/Calcium Carbonate, Moderate Brown 5VR 4/4, Mottled w/Pink		
							Gray 5YR 8/1 turns to Pink Gray @ 15' bgs		ſ
15	J. 25 5		0.0					15	;
			0.0						
	The Sec								
	5.5.5								
	al al polar								ł
	4.5.4							\neg	
20	665		0.0					20	4
						23'			
					23'-		very Fine-Fine Sand, Moderate Orange 10R 7/4, Slightly Moist, Some Calcium Carbonate Nodules		
25					25'			25	
			0.9						1
					l l				
								_	
30			00					30	4
			0.0						
	APLC	1							-
	-\r\r\O.					T DC 11		nr	
		THIS BC	URING LC	NG 51		U BE US	DED SEPARATE FROM THE ORIGINAL REPORT.	. M	
L					Diff.				

PROJECT: Plains Marketing, LP PROJECT NUMBER: PLAINS006SPL

TOTAL DEPTH: 35'

DRILLING COMPANY: Talon Drilling, LP DRILLER: Jose Salas, Jr. CLIENT: Plains Marketing, LP DRILLING METHOD: Air Rotary BORING / WELL NUMBER: SB-22 BORE HOLE DIAMETER: 5 5/8* SCREEN: Diam. _____ Slot Size _____

 SURFACE ELEVATION:
 CASING: Diam.
 Length
 Type

 GEOLOGIST:
 Kyle Summers
 DATE DRILLED:
 November 15, 2006

BACE 2 of 2

DEPTH (FT.)	SOIL SYMBOL	WELL CONSTRUCTION	미년	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
35					33'- 35'	35'	Bottom of Hole @ 35'	35
40								40
45								45
55								55
60								60
REM	ARKS:	THIS BO	DRING LC	DG S		DT BE US	SED SEPARATE FROM THE ORIGINAL REPORT.	.PE

PROJECT: Plains Marketing, LP PROJECT NUMBER: PLAINS006SPL

CLIENT: <u>Plains Marketing, LP</u> BORING / WELL NUMBER: <u>SB-23</u>

TOTAL DEPTH: 25'

SURFACE ELEVATION:

GEOLOGIST: Kyle Summers

DRILLING COMPANY: <u>Talon Drilling, LP</u> DRILLER: <u>Jose Salas, Jr.</u> DRILLING METHOD: <u>Air Rotary</u>

 BORE HOLE DIAMETER:
 5 5/8"

 SCREEN: Diam.
 Length

 CASING: Diam.
 Length

DATE DRILLED: November 15, 2006

PAGE 1 of 1

DEPTH (FT.)	SOIL SYMBOL	WELL CONSTRUCTION	OId	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM		DEPTH (FT.)
				\square			Topsoil	┝	
				Н		1'	Fine Silty Sand, Grayish Orange 10YR 7/4	┢	
								-	
								F	
5									5
			1.3						
			-						
IЦ				\square		8'	Silty Sandy clay & Clayey Sand Moderate Brown 5VP 4/4 Very Stiff		
							Slightly Moist, Not Plastic	┝	
10			0.3			4.43		-	10
	1. / 1. / 1. 7. / 5. s						Weathered Calcium Carbonate, Pinkish Gray 5YR 8/1, Dry, powdery,	╞	
							Sandy	\square	
					13'-				
15			15.0		15'				15
			15.9						
						18'	Fine Sand w/Calcium Carbonate, Pinkish Grav 5YR 8/1		
								-	
20			0.0						20
						22'			
							Very Fine-Fine Sand, Moderate Orange 10YR 3/4, Calcium Carbonate		
					23'-		Nodules, Dry		
25			0.0		25'	25'			25
$ \mid \downarrow $							Bottom of Hole @ 25		
			l					-	
									20
									30
REMA		L	[
		THIS BO	ORING LO	G SI	HOULD NO	DT BE US	SED SEPARATE FROM THE ORIGINAL REPORT.	D	

PROJECT: Plains Marketing, LP			DRILLING COMPANY: Talon Drilling, LP	
PROJECT NUMBER: PLAINS006SPL		<u>.</u>	DRILLER: Jose Salas, Jr.	
CLIENT: Plains Marketing, LP			DRILLING METHOD: Air Rotary	
BORING / WELL NUMBER: SB-24			BORE HOLE DIAMETER: 55/8"	
TOTAL DEPTH: 25'			SCREEN: Diam Length Slot Size	
SURFACE ELEVATION:			CASING: Diam Length Type	
GEOLOGIST: Kyle Summers			DATE DRILLED: November 15, 2006	
	1 1	1 1	PA	GE 1 of 1
DEPTH (FT.) SOIL SOIL SYMBOL WELL CONSTRUCTION	SAMPLES SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
	Ш			
		6" <u>Tc</u> W 51	opsoil /eathered Calcium Carbonate/Hard Calcium Carbonate, Pinkish Gray YR 8/1, Dry, Some Sand, But Very Hard	
0.0		м	ore Sand Contact @ 13-15' bgs	
15	15'	Ha	ard Again @ 15' bgs	<u>15</u>
20 0.1		23'		20
25 0.0	23'- 25'	ve ag	ary rune-rine Sand, Moderate Orange 10K //4, Harder @ 25' bgs ain	25
30 0.0	28'- 30'	30' Bol	Recovery	30
REMARKS: THIS BORING I		DT BE USED	SEPARATE FROM THE ORIGINAL REPORT.	PE

PRO	FCT: Pla	ins Marketing 1	P				DBILLING COMPANY: Talon Drilling LP		
PROJ			006SPI				DRILLER: Jose Salas Jr		
CLIEN	T: Plaine	Marketing I P					DRILLING METHOD: Air Rotary		
BORI		NIMBER SE	3-25				BORE HOLE DIAMETER: 5 5/8"		
TOTA		· 25'					SCREEN: Diam Length Slot Size		
SUDE							CASING: Diam Length 1 Type		
CEOL									
GEOL	00:01. 1	cyle Summers					PA	GE	1 of 1
		Z	T	П		[T	
DEPTH (FT.)	SYMBOL SOIL	WELL CONSTRUCTIO	Old	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM		DEPTH (FT.)
	21-1-1-1-2					L			
							Sandy Calcium Carbonate-Weathered, Pinkish Gray 5YR 8/1, Slight Sand But Not Much Dry Powdery		
	1.1.5								
	1.15								
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1								
	1.55								
 [₽] −	14.0		0.2						
	a sa								
	To per al								
	(1.1.1.) 								
	10%								
10					9'- 10'				10_
	A second and a second at a		46		-				
	the states								
	1 3 3 A								
	1							H	4.5
15			0.0					H	15
	1 de							\vdash	
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.							Н	
	al al pal an A star a star							\square	
	بالكر فدكو								
20	165					20'			20
			0.0				Very Fine-Fine Sand, Moderate Orange 10R 7/4, Slight Consolidation and Calcium Carbonate Nodules, Dry		
							and Galoran Galoonale Hoddies, Dry	[]	
								П	
					23'-			\square	
25			0.0		25'	25'		\vdash	7 F
²³			0.0		ŀ		Bottom of Hole @ 25'	┢┤	23
							-	Н	
		1				ľ		\vdash	
		ĺ						\vdash	
		l			l	ļ		Ц	
30								Ц	30
								\square	
	ADVC.						······································		
	-1163								
		THIS BO	ORING LC	ig Sl	HOULD NO	OT BE US	SED SEPARATE FROM THE ORIGINAL REPORT.	_μ	
L									

PROJE	ECT: <u>Plai</u>	ins Marketing, L	Р				DRILLING COMPANY: Talon Drilling, LP		
PROJE	ECT NUM	BER: PLAINSO	06SPL				DRILLER: Jose Salas, Jr.		
CLIEN	T: <u>Plains</u>	Marketing, LP					DRILLING METHOD: Air Rotary		
BORIN	IG / WELL	NUMBER: SE	3-26				BORE HOLE DIAMETER: 5 5/8"		
TOTAL	DEPTH:	26'					SCREEN: Diam. Length Slot Size		
SURF	ACE ELE	ATION:					CASING: Diam. Length Type		
GEOLO	OGIST: K	vie Summers					DATE DRILLED: November 15, 2006		
							PA	GE	1 of 1
		NOI		Π		z		Ι	
L.		LOL LOL				l₽_			÷
1 E	히	TRI		ШЩ	ШĂ	E A	DESCRIPTION OF STRATUM		L L
l Ü	⊒ ₿	NS IL		₽	Δü	SЩ			E
	S S	¥8		S S	AS IN	NZ			H
		A							
	26 252			\square		6"	Sand/Calcium Carbonate, Topsoil	Γ	
	1. A.						Calcium Carbonate-Weathered, Pinkish Gray 5YR 8/1, Dry, Sandy, More		1
	1.1.0								1
								┣—	1
5									5
			0.0						
	4.465								
	1. 25.5								
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1								
10	a pint.		0.0					\vdash	10
	1. 1. 2. 2								
					i				
	1 A 13 A				13'-				
15	1. S. A. C.				15'				15
	1.11		0.0						
	1.1								
	فيركدهم							\vdash	
								\vdash	
	That								
20	6.5.0								20
			0.0						
	J. A.								
25						25'			25
	Ĭ		0.0		25'-	26'	Very Fine-Fine Sands, Moderate Orange 10R 7/4, Dry, Calcium		_29_
			0.0		26'		Carbonate Nodules, Calcium Carbonate in Shoe, Non-Plastic	\vdash	
							Bottom of Hole @ 26		
-									
] 凵	1								
30								\square	30
								\square	
	AKKS:						The second secon	R	
		THIS BO	DRING LC)G SI	HOULD NO	OT BE U	SED SEPARATE FROM THE ORIGINAL REPORT.	۲.	

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PROJECT: Plains Marketing, LP PROJECT NUMBER: PLAINS006SPL

CLIENT: Plains Marketing, LP

BORING / WELL NUMBER: SB-27

TOTAL DEPTH: 25'

GEOLOGIST: Kyle Summers

DRILLING COMPANY: Talon Drilling, LP DRILLER: Jose Salas, Jr. DRILLING METHOD: Air Rotary BORE HOLE DIAMETER: 5 5/8" SCREEN: Diam. _____ Length _____ Slot Size _____

SURFACE ELEVATION: _____ CASING: Diam. ____ Length ____ Type ____ DATE DRILLED: November 15, 2006

PAGE 1 of 1

DEPTH (FT.)	SYMBOL SOIL	WELL CONSTRUCTION	QI4	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
				\square		6"	Tanaait Silly Sand/Clay w/Oslaine Ostasat	
				H			Sandy Calcium Carbonate, Pinkish Gray 5YR 8/1, Dry, Weathered,	
-							Some Thin Sand Zones Betweeen 20 & 25' bgs	
	a farainn Tha an							
5								- 5
			0.0					
	1 a ga al 1 1 a ga al 1 1 a ga al 1							
10	1		0.0					10
			0.0					
-	A Start							_
▎┝								
					13'- 15'			-
15			1.1					
20								20
			0.0					
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
	19 AV 44				23'- 25'		· · · · · · · · · · · · · · · · · · ·	
25	5.945		0.0			_25'	Bottom of Hole @ 25'	25
	-							
	1							-
	1							-
30	1				Í			30
REM	ARKS:		L					
		THIS BO	ORING LO	G SI	HOULD NO	DT BE US	SED SEPARATE FROM THE ORIGINAL REPORT.	
		•••••••••••••••••••••••						

	Symbol	Description
	<u>Strata</u>	symbols
		Clayey sand
1		Silty sand
		Limestone
		Clayey sand
	Misc. S	Symbols



Soil Samplers

Split Spoon sampler

No recovery

Monitor Well Details

no pipe, sealed

KEY TO SYMBOLS

and gravel

 \square

T

T

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Attachment 3

I

6701 Aberdeen Avenue, Suite 9 Lu 155 McCutcheon, Suite H El

Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79932 888•588•3443 E-Mail lab@traceanalysis.com

806•794•1296 FAX 806•794•1298 915•585•3443 FAX 915•585•4944

INC

Analytical and Quality Control Report

Kyle Waggoner Talon/LPE-Midland #9 East Industrial Loop Midland, TX, 79701

Project Location:Lea County, NMProject Name:Vaccuum Gathering 6"Project Number:Plains006SPL

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
109152	SB-25 (9-10')	soil	2006-11-15	10:05	2006-11-16
109153	SB-25 (23-25')	soil	2006-11-15	10:30	2006-11-16
109154	SB-21 (1-3')	soil	2006-11-15	10:40	2006-11-16
109155	SB-21 (3-5')	soil	2006-11-15	10:45	2006-11-16
109156	SB-21 (23-25')	soil	2006-11-15	11:15	2006-11-16
109157	SB-24 (13-15')	soil	2006-11-15	11:50	2006-11-16
109158	SB-24 (23-25')	soil	2006-11-15	12:05	2006-11-16
109159	SB-23 (13-15')	soil	2006-11-15	13:40	2006-11-16
109160	SB-23 (23-25')	soil	2006-11-15	13:50	2006-11-16
109161	SB-27 (13-15')	soil	2006-11-15	15:00	2006-11-16
109162	SB-27 (23-25')	soil	2006-11-15	15:14	2006-11-16
109163	SB-20 (1.5-3')	soil	2006-11-15	15:30	2006-11-16
109164	SB-20 (23-25')	soil	2006-11-15	16:10	2006-11-16
109165	SB-26 (13-15')	soil	2006-11-15	16:30	2006-11-16
109166	SB-26 (25-26')	soil	2006-11-15	16:40	2006-11-16
109167	SB-22 (3-5')	soil	2006-11-15	16:50	2006-11-16
109168	SB-22 (23-25')	soil	2006-11-15	17:30	2006-11-16
109169	SB-22 (33-35')	soil	2006-11-15	18:00	2006-11-16

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.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Work Order: 6111629

Report Date: November 21, 2006

Blain ferrich

Dr. Blair Leftwich, Director

Standard Flags

 ${\bf B}\,$ - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 109152 - SB-25 (9-10')

Analysis:	BTEX		Analytical	Method:	S 8021B		Prep Me	thod: \$ 5035
QC Batch:	32057		Date Analy	zed:	2006-11-15		Analyzed	i By: LO
Prep Batch:	27930		Sample Pre	paration:			Prepared	By: LO
			RI	L				
Parameter	Flag	3	Resul	lt	Units		Dilution	RL
Benzene	and and the second of the s	i han an a' an a' ann an Annaichean an	<0.010	0	mg/Kg	n na an	l	0.0100
Toluene			<0.010	0	mg/Kg		1	0.0100
Ethylbenzene	•		< 0.010	0	mg/Kg		1	0.0100
Xylene			0.012	0	mg/Kg		1	0.0100
		anna a staine ann an staine ann ann ann ann ann ann an			aan maalaanaa yoo tagoo nahor waxaanaa	Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	n Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.894	mg/Kg	ş 1	1.00	89	75 - 125
4-Bromofluor	robenzene (4-BFB)		0.973	mg/Kg	<u>g 1</u>	1.00	97	75 - 125

Sample: 109152 - SB-25 (9-10')

Analysis:	TPH DRO		Analytical Method	: Mod. 8015I	3	1	Prep Method:	N/A
QC Batch:	31996		Date Analyzed:	2006-11-17			Analyzed By:	WR
Prep Batch:	27879		Sample Preparation	n: 2006-11-16]	Prepared By:	WR
			RL					
Parameter	Fla	ıg	Result	Units		Dilution		RL
DRO			324	mg/Kg		<u> </u>		50.0
					Spike	Percent	Rec	overy
Surrogate	Flag	Result	Units	Dilution	Amount	Recover	y Li	mits
n-Triacontan	P	207	mg/Kg	1	150	138	70	- 130

Sample: 109152 - SB-25 (9-10')

Analysis: OC Batch:	TPH GRO 32058		Analytical Date Anal	Method: vzed:	S 8015B 2006-11-20		Prep Meth Analyzed	od: S 5035 By: LO
Prep Batch:	27930		Sample Pr	eparation:	2000 11 20		Prepared I	By: LO By: LO
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO	۵۰۰۰ <u>۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰</u>	ne er er Sennerk mennenske bisens for Ne er en senner met men et i Ne	22.3		mg/Kg		I	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)	······································	0.844	mg/Kg	1	1.00	84	70 - 130
4-Bromofluo	robenzene (4-BFB)		0.966	mg/Kg	1	1.00	97	70 - 130

¹High surrogate recovery due to peak interference.

Sample: 109153 - SB-25 (23-25')

4-Bromofluorobenzene (4-BFB)

Analysis: QC Batch: Prep Batch:	BTEX 32057 27930			Analytical M Date Analyz Sample Prep	Method: zed: paration:	S 8021B 2006-11-15		Prep Methoo Analyzed By Prepared By	l: S 5035 7: LO : LO
				RL					
Parameter		Flag		Result	t	Units		Dilution	RL
Benzene				< 0.0100)	mg/Kg		Ī	0.0100
Toluene				< 0.0100)	mg/Kg		1	0.0100
Ethylbenzen	ne			<0.0100)	mg/Kg		1	0.0100
Xylene				<0.0100)	mg/Kg		1	0.0100
Surrogate	in a start for the start st	ಂಪ್ ಬಿಂದರೆ ನಿರ್	Flag	Recult	Units	Dilution	Spike	Percent	Recovery Limits
Trifluorotolu	iene (TFT)		1 145	0.800	malka			80	75 . 125
4-Bromofluo	robenzene (4.	-BFB)		1.00	mo/Ko	1	1.00	100	75 - 125
		<u> </u>							
Sample: 10	9153 - SB-25 ((23-25')							
Analysis:	TPH DRO			Analytica	l Method:	Mod. 8015B		Prep Meth	od: N/A
OC Batch:	31996			Date Ana	lvzed:	2006-11-17		Analyzed	By: WR
Prep Batch:	27879			Sample P	reparation	2006-11-16		Prepared 1	By: WR
				I					5
				RL					
_				n 1.		Units		Dilution	RL
Parameter		Flag	and a state of the	Result		· · · · · · · · · · · · · · · · · · ·			Partial Division of Streaming Street in the
Parameter DRO		Flag	۵٬۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰	<50.0		mg/Kg	۵	I	50.0
Parameter DRO		Flag	277 - 27 - 20 - 20 - 20 - 20 - 20 - 20 -	<50.0		mg/Kg	Spike	1 Percent	50.0 Recovery
Parameter DRO Surrogate	Fla	Flag	Result	Kesult <50.0 Units	D	mg/Kg vilution	Spike Amount	I Percent Recovery	50.0 Recovery Limits
Parameter DRO Surrogate n-Triacontan	Fla	Flag ng	Result 190	Kesult <50.0 Units mg/Kg	D	mg/Kg vilution 1	Spike Amount 150	I Percent Recovery 127	50.0 Recovery Limits 70 - 130
Parameter DRO Surrogate n-Triacontan Sample: 109	Fla ie 9 153 - SB-25 (Flag 99 (23-25')	Result 190	Kesult <30.0 Units mg/Kg	D	mg/Kg vilution 1	Spike Amount 150	I Percent Recovery 127	50.0 Recovery Limits 70 - 130
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis:	Fla ie 9 153 - SB-25 (TPH GRO	Flag 1g (23-25')	Result 190	Kesult <50.0 Units mg/Kg	D Method:	mg/Kg vilution 1 S 8015B	Spike Amount 150	I Percent Recovery 127 Prep Method	50.0 Recovery Limits 70 - 130 : \$ 5035
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch:	Fla ie 9 153 - SB-25 (TPH GRO 32058	Flag 1g (23-25')	Result 190	Analytical Date Analy	D Method: yzed:	mg/Kg bilution 1 S 8015B 2006-11-20	Spike Amount 150	I Percent Recovery 127 Prep Method Analyzed By	50.0 Recovery Limits 70 - 130 : \$ 5035 : LO
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	Fla ie 9 153 - SB-25 (TPH GRO 32058 27930	Flag ng (23-25')	Result 190	Analytical Date Analy Sample Pro	D Method: yzed: eparation:	mg/Kg vilution 1 S 8015B 2006-11-20	Spike Amount 150	I Percent Recovery 127 Prep Method Analyzed By Prepared By:	50.0 Recovery Limits 70 - 130 : S 5035 : LO LO
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	Fla e 9153 - SB-25 (TPH GRO 32058 27930	Flag g (23-25')	Result 190	Analytical Date Analy Sample Pro	D Method: yzed: eparation:	mg/Kg bilution 1 \$ 8015B 2006-11-20	Spike Amount 150	I Percent Recovery 127 Prep Method Analyzed By Prepared By:	50.0 Recovery Limits 70 - 130 : \$ 5035 : LO LO
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch:	Fla e 9153 - SB-25 (TPH GRO 32058 27930	Flag (23-25') Flag	Result 190	Analytical Date Analy Sample Pro RL Result	D Method: yzed: eparation:	mg/Kg vilution 1 S 8015B 2006-11-20 Units	Spike Amount 150	I Percent Recovery 127 Prep Method Analyzed By Prepared By: Dilution	50.0 Recovery Limits 70 - 130 : S 5035 : LO LO RL
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch:	Fla Re 9 153 - SB-25 (TPH GRO 32058 27930	Flag (23-25') Flag	Result 190	Analytical Date Analy Sample Pro RL Result 1.20	D Method: yzed: eparation:	mg/Kg vilution 1 S 8015B 2006-11-20 Units mg/Kg	Spike Amount 150	I Percent Recovery 127 Prep Method Analyzed By Prepared By: Dilution	50.0 Recovery Limits 70 - 130 : S 5035 : LO LO RL 1.00
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	Fla e 9 153 - SB-25 (TPH GRO 32058 27930	Flag 19 (23-25') Flag	Result 190	Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL Result 1.20	D Method: yzed: eparation:	mg/Kg vilution 1 S 8015B 2006-11-20 Units mg/Kg	Spike Amount 150 Spike	I Percent Recovery 127 Prep Method Analyzed By Prepared By: Dilution I Percent	50.0 Recovery Limits 70 - 130 : S 5035 : LO LO RL 1.00 Recovery
Parameter DRO Surrogate n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Surrogate	Fla e 9 153 - SB-25 (TPH GRO 32058 27930	Flag (23-25') Flag	Result 190 Flag	Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL Result 1.20 Result	D Method: yzed: eparation: Units	mg/Kg vilution 1 S 8015B 2006-11-20 Units mg/Kg Dilution	Spike Amount 150 Spike Amount	I Percent Recovery 127 Prep Method Analyzed By Prepared By: Dilution 1 Percent Recovery	50.0 Recovery Limits 70 - 130 : S 5035 : LO LO RL 1.00 Recovery Limits

1.17

mg/Kg

1

1.00

117

70 - 130

Sample: 109154 - SB-21 (1-3')

Analysis:	BTEX		Analytical N	Method:	S 8021B		Prep Met	hod: S 5035
QC Batch:	32057		Date Analyz	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930		Sample Pre	paration:			Prepared	By: LO
			RL	.		_		
Parameter	Fla	ıg	Result	t	Units]	Dilution	RL
Benzene			< 0.0100)	mg/Kg		1	0.0100
Toluene			<0.0100)	mg/Kg		1	0.0100
Ethylbenzen	e		<0.0100)	mg/Kg		1	0.0100
Xylene			< 0.0100)	mg/Kg		1	0.0100
						011	Deveent	D
a .		F L.	D	TT. 14.	Dilation	Spike	Percent	Recovery
Surrogate		Flag	Kesult	Units	Dilution	Amount	Kecovery	
Trifluorotolu	iene (TFT)		0.885	mg/Kg	1	1.00	88	75 - 125
4-Bromofluc	probenzene (4-BFB)		0.987	mg/Kg	<u>l</u>	1.00	99	/5 - 125
Sample: 10	9154 - SB-21 (1-3')							
Analysis	TPH DRO		Analytica	Method:	Mod. 8015B		Pren M	fethod: N/A
OC Batch	31996		Date Ana	lyzed:	2006-11-17		Analyz	ed By: WR
Pren Batch	27879		Sample P	reparation	2006-11-16		Prenare	ed By: WR
Tiep Daten.	21017		Sample I	reputation.	2000 11 10		Tiepuit	
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO			<50.0		mg/Kg		T	50.0
					······································	ana ing maang to the interval		********
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	D	vilution	Amount	Recovery	Limits
n-Triacontan	e	192	mg/Kg		1	150	128	70 - 130
	an an an tha an		, , , , , , , , , , , , , , , , , , ,	and i thinkan f	······		*	
Sample: 109	9154 - SB-21 (1-3')							
Analysis	TDU CDO		Analytical	Method	S 8015B		Dran Math	nod: \$ 5025
Analysis:	22059		Data Anal	wiculou:	300130		Analyzed	$\frac{100}{200} = \frac{100}{200} = $
QC Batch:	32038		Date Anal	yzeu:	2000-11-20		Analyzeu Droporod l	By: LO
Рер Баюн:	27930		Sample Fr	eparation.			riepareu i	By. LU
			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO		an a	<1.00	N	mg/Kg	**************************************	I	1.00
				· · · · · · · · · · · · · · · · · · ·	<u> </u>			a alaan ah ah barran ah
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)	we first the second second	0.845	mg/Kg	Ī	1.00	84	70 - 130
4-Bromofluo	robenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	70 - 130

Sample: 109155 - SB-21 (3-5')

	DILA		Analytical r	nculou.	3 60210		Prep Metho	Ju. 0 5035
QC Batch:	32057		Date Analyz	zed:	2006-11-15		Analyzed I	By: LO
Prep Batch:	27930		Sample Pre	paration:			Prepared B	y: LO
ъ <i>(</i>	FI		KL R	<i>.</i>	** •.		D11	
Parameter	Fla	lg	Kesul		Units		Dilution	KL
Benzene			<0.0100		mg/Kg		1	0.0100
Toluene	_		<0.0100		mg/Kg		1	0.0100
Einylbenzen	e		<0.0100		mg/Kg		1	0.0100
Aylene	and the second		<0.0100		mg/Kg			0.0100
						Snike	Dercent	Recovery
Surrogate		Flag	Recult	Unite	Dilution	Amount	Decovery	Limite
Trifluorotolu	ene (TFT)	1 145	0 200	ma/Ka		1.00	20	75 . 175
4-Bromofluo	robenzene (A-RFR)		0.890	mg/Kg	1	1.00	07	75 - 125
- Andrew Contraction of the second	**************************************	 					an a	anna a' an a' an Mair An San an Annaichean an sa
Sample: 109	9155 - SB-21 (3-5')							
Analysis:	TPH DRO		Analytica	I Method	Mod 8015B		Pren Me	thod: N/A
OC Batch:	31996		Date Ana	lvzed:	2006-11-17		Analyze	
Pren Batch:	27879		Sample P	renaration:	2006-11-16		Prenared	By: WR
1.00 2.000			54p.01	opulution	2000 11 10		riopulou	<i>Dj</i> . <i>nR</i>
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO			<50.0		mg/Kg	an a far far a Maran an Anna an an Anna	1	50.0
	n an						_	_
~				_		Spike	Percent	Recovery
Surrogate	Fiag	Result	Units	D	ilution	Amount	Recoverv	Limits
			and a second	×7 - + 7 - + 1 - +	The strength Wells around the set of a set of the set of the set		tal	the state of the second se
n-Triacontan	e	190	mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	130	127	70 - 130
n-Triacontan Sample: 109	e 155 - SB-21 (3-5')	190	mg/Kg	·	1	130	127	70 - 130
n-Triacontan Sample: 109 Analysis:	e 155 - SB-21 (3-5') TPH GRO	190	mg/Kg Analytical	Method:	1 S 8015B	130	127 Prep Metho	70 - 130 d: \$ 5035
n-Triacontan Sample: 109 Analysis: QC Batch:	e 155 - SB-21 (3-5') TPH GRO 32058	190	mg/Kg Analytical Date Analy	Method: /zed:	1 S 8015B 2006-11-20	130	127 Prep Metho Analyzed B	70 - 130 d: \$ 5035 w: LQ
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	e 155 - SB-21 (3-5') TPH GRO 32058 27930	190	mg/Kg Analytical Date Analy Sample Pre	Method: /zed: eparation:	1 S 8015B 2006-11-20	130	127 Prep Metho Analyzed B Prepared B	70 - 130 d: \$ 5035 y: LO y: LO
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	e 155 - SB-21 (3-5') TPH GRO 32058 27930	190	mg/Kg Analytical Date Analy Sample Pro	Method: /zed: eparation:	1 S 8015B 2006-11-20	130	127 Prep Metho Analyzed B Prepared By	70 - 130 d: \$ 5035 y: LO y: LO
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Elag	190	mg/Kg Analytical Date Analy Sample Pro RL Pecult	Method: /zed: eparation:	1 \$ 8015B 2006-11-20	130	127 Prep Metho Analyzed B Prepared By	70 - 130 d: \$ 5035 y: LO y: LO
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter GRO	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Flag	190	mg/Kg Analytical Date Analy Sample Pro RL Result	Method: /zed: eparation:	1 S 8015B 2006-11-20 Units	130	127 Prep Metho Analyzed B Prepared B Dilution	70 - 130 d: S 5035 y: LO y: LO RL
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter GRO	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Flag	190	mg/Kg Analytical Date Analy Sample Pre RL Result <1.00	Method: /zed: eparation:	1 S 8015B 2006-11-20 Units mg/Kg	130	127 Prep Metho Analyzed B Prepared By Dilution 1	70 - 130 d: S 5035 iy: LO y: LO y: LO RL 1.00
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter GRO	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Flag	190	mg/Kg Analytical Date Analy Sample Pro RL Result <1.00	Method: /zed: eparation:	1 S 8015B 2006-11-20 Units mg/Kg	150 Spike	127 Prep Metho Analyzed B Prepared B Dilution 1 Percent	70 - 130 d: S 5035 y: LO y: LO RL 1.00 Recovery
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Flag	Flag	mg/Kg Analytical Date Analy Sample Pro RL Result <1.00 Result	Method: /zed: eparation: Units	1 S 8015B 2006-11-20 Units mg/Kg Dilution	150 Spike Amount	127 Prep Metho Analyzed B Prepared B Dilution 1 Percent Recovery	70 - 130 d: S 5035 y: LO y: LO RL 1.00 Recovery Limits
n-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue	e 155 - SB-21 (3-5') TPH GRO 32058 27930 Flag ene (TFT)	Flag	mg/Kg Analytical Date Analy Sample Pro RL Result <1.00 Result 0.840	Method: /zed: eparation: Units mg/Kg	1 S 8015B 2006-11-20 Units mg/Kg Dilution	150 Spike Amount 1.00	127 Prep Metho Analyzed B Prepared By Dilution 1 Percent Recovery 84	70 - 130 d: S 5035 y: LO y: LO RL 1.00 Recovery Limits 70 - 130

Sample: 109156 - SB-21 (23-25')

Analysis:	BTEX		Analytical N	Method:	S 8021B		Prep Met	hod: \$ 5035
QC Batch:	32057		Date Analy:	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930		Sample Prep	paration:			Prepared	By: LO
			DI					
Parameter	Fla	a	RL Result	+	Unite		Dilution	DI
Renzene	1.10	8			malka			
Toluene				,)	mg/Kg		1	0.0100
Fthylbenzer)e			,)	mg/Kg		1	0.0100
Yvlene			<0.0100)	mg/Kg		1	0.0100
Ayrene	Na Ang name of Net states and the second state is an		<0.0100		mg/ Kg	and an in the second	1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	iene (TFT)	an a	0.903	mg/Kg	1	1.00	90	75 - 125
4-Bromoflue	orobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	75 - 125
Sample: 10	9156 - SB-21 (23-25')						
Analysis:	TPH DRO		Analytica	1 Method.	Mod 8015B	1	Pren M	ethod N/A
OC Batch:	31996		Date Ana	lvzed:	2006-11-17		Analyz	ed By: WR
Prep Batch:	27879		Sample P	reparation	: 2006-11-16		Prepare	ed By: WR
			F	r				
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO	ar fan de fan Fander yn Armeniae fan de fan de fan de fan de fan fan fan fan fan de fan de fan fan fan fan fan Fan fan fan fan fan fan fan fan fan fan f		<50.0	Marti 27 24.24.24.	mg/Kg	·····	1	50.0
	an a				······································		_	_
0	171		TT •.	D		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	D	hlution	Amount	Recovery	Limits
n-Triacontan	e	215	mg/Kg		1	150	143	70 - 130
Sample: 109 Analysis:	9 156 - SB-21 (23-25') TPH GRO	I	Analytical	Method:	S 8015B		Prep Meth	od: \$ 5035
QC Batch:	32058		Date Analy	zed:	2006-11-20		Analyzed	By: LO
Prep Batch:	27930		Sample Pro	eparation:			Prepared 1	By: LO
Doromotor	Elec		RL		T In ite		Dilution	DI
CPO	riag							KL
	a tha chan chan tan tan bara an		<u>\1.00</u>	····	mg/Kg	the frances of second contractor	1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.855	mg/Kg	1	1.00	86	70 - 130
1 Dromofluo	robenzene (A DED)		1 16	ma/Ka	1	1.00	116	70 - 130

²High surrogate recovery. Sample non-detect, result bias high.

Sample: 109157 - SB-24 (13-15')

Analysis:	BTEX			Analytical N	Aethod:	S 8021B		Prep Met	hod: S 5035
QC Batch:	32057			Date Analyz	zed:	2006-11-15		Analyzec	I By: LO
Prep Batch:	27930			Sample Prep	paration:			Prepared	By: LO
		171		RL		•••		54.4	
Parameter		Flag		Result		Units		Dilution	RL
Benzene				< 0.0100)	mg/Kg		1	0.0100
Toluene				< 0.0100)	mg/Kg		1	0.0100
Ethylbenzen	e			< 0.0100		mg/Kg		1	0.0100
Xylene		wite		<0.0100	/- setter	mg/Kg		l	0.0100
							Spike	Dercent	Decovery
Surrogate			Flag	Result	Unite	Dilution	Amount	Recovery	Limite
Trifluorotolu	ene (TET)	···· · ···· ·	1 145	0.804	malka	Diración		20	75 - 125
4-Bromofluc	orobenzene (4-B	FR)		0.997	mg/Kg	ı t	1.00	00	75 - 125
- Diomonuc		1 D)	•••••••••••	0.772	116/156		1.00		15-125
Sample: 10	9157 - SB-24 (1	3-15')							
Analysis	TPH DRO			Analytica	Method:	Mod. 8015B		Pren M	fethod: N/A
OC Batch:	31996			Date Ana	lvzed:	2006-11-17		Analyz	red By: WR
Pren Batch:	27879			Sample P	renaration	2006-11-16		Prenar	ed By: WR
Thep Duten	2.077			Sampler	opuration			riopui	<i>Ja 29</i>
				RL					
Parameter		Flag		Result		Units		Dilution	RL
DRO	na can fel colo o - d'ann feograf o - e l'ora 204 194			<50.0		mg/Kg		1	50.0
				an a	******		aan taan ing kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupat		a na la la seconda de la completa d
							Spike	Percent	Recovery
Surrogate	Flag		Result	Units	D	vilution	Amount	Recovery	Limits
n-Triacontan	e		185	mg/Kg	· · · · · · · · · ·	1	150	123	70 - 130
Sample: 109)157 - SB-24 (1	3-15')							
Analysis:	TPH GRO			Analytical	Method:	S 8015B		Prep Met	nod: S 5035
QC Batch:	32058			Date Analy	zed:	2006-11-20		Analyzed	By: LO
Prep Batch:	27930			Sample Pro	eparation:			Prepared	By: LO
				рī					
Parameter		Flag		Result		Units		Dilution	RI
GRO		1 10		<1.00	······································	mg/Kg	·····	I	100
								• ••••••••••••••••••••••••••••••••••••	1.00
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)			0.858	mg/Kg	1	1.00	86	70 - 130
4-Bromofluo	robenzene (4-Bl	FB)		1.14	mg/Kg	1	1.00	114	70 - 130

-

Sample: 109158 - SB-24 (23-25')

4-Bromofluorobenzene (4-BFB)

Analysis: QC Batch:	BTEX 32057			Analytical Date Analy	Method: zed:	S 8021B 2006-11-15		Prep Met Analyzed	thod: S 5035 I By: LO
Prep Batch:	27930			Sample Pre	paration:			Prepared	By: LO
				RI					
Parameter		Flag		Resul	t	Units		Dilution	RL
Benzene				< 0.010	5	mg/Kg		l	0.0100
Toluene				< 0.010)	mg/Kg		1	0.0100
Ethylbenzen	ne			< 0.0100)	mg/Kg		1	0.0100
Xylene				< 0.0100)	mg/Kg		1	0.0100
and handle to be done and	n a di C. C. a la conservation de l	an a	din na inana in ini tinan ing	n han bere selen selen in den der bereiten der bereiten der bereiten der bereiten der bereiten der bereiten der		la la parte a la compañía de la la	Spilze	Dercent	Decovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoli	iene (TFT)		1 140	0.905	mg/Kg	<u>Diduon</u>	1.00	90	75 - 125
4-Bromoflue	probenzene (4	L-BFR)		1 00	mo/Ko	· · · · ·	1.00	100	75 - 125
این از را در زیر عیری به ا		**************************************							
Sample: 10	9158 - SB-24	(23-25')							
Analysis:	TPH DRO			Analytica	al Method:	Mod. 8015B		Prep M	fethod: N/A
OC Batch:	31996			Date Ana	lvzed:	2006-11-17		Analyz	zed By: WR
Prep Batch:	27879			Sample P	reparation	: 2006-11-16		Prepar	ed By: WR
•					ľ			ľ	2
D				RL					
Parameter		Flag		Result		Units		Dilution	RL
DRO	•			<50.0		mg/Kg	and the state and state and state Victorian States	l	50.0
							Spike	Percent	Recovery
Surrogate	Fla	ag	Result	Units	E	Dilution	Amount	Recovery	Limits
n-Triacontan	e		186	mg/Kg		I	150	124	70 - 130
Sample: 109	9158 - SB-24	(23-25')		<u>, ,, , , , , , , , , , , , , , , , , ,</u>	······································	<u>, , , , , , , , , , , , , , , , , , , </u>			* · · · · · · · · · · · · · · · · · · ·
Analysis.	TPH GRO			Analytical	Method	S ROISB		Pren Met	had: \$ \$035
OC Batch	32058			Date Anal	vzed.	2006-11-20		Analyzed	By: 10
Prep Batch:	27930			Sample Pr	eparation:	2000-11-20		Prepared	By: LO
-					-				-
Parameter		Flag		RE Result		Units		Dilution	RI.
GRO			·········	<1.00	·····	mg/Kg		1	1.00
·····						0. 0			****
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		i an mai a tanàna di 787	0.862	mg/Kg	l	1.00	86	70 - 130

1.16

mg/Kg

1

1.00

116

70 - 130

Sample: 109159 - SB-23 (13-15')

Analysis:	BTEX		Analytical I	Method:	S 8021B		Prep Met	nod: \$ 5035
QC Batch:	32057		Date Analy:	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930		Sample Pre	paration:			Prepared	By: LO
			DI					
Darameter		Flag	KL Decul	•	Linito		Dilution	DI
Renzene		1148			malka			
Toluene			<0.0100	,)	mg/Kg		1	0.0100
Fthylbenzer	ne -		<0.0100	,)	mg/Kg		1	0.0100
Xvlene			< 0.0100	,)	mg/Kg		1	0.0100
		• ••••		e Collination - Scotte There				
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	iene (TFT)	Notes - Constant a surray of them in	0.907	mg/Kg	1	1.00	91	75 - 125
4-Bromoflue	orobenzene (4-B	FB)	0.930	mg/Kg	1	1.00	93	75 - 125
Sample: 10	9159 - SB-23 (13	3-15')						
Analysis:	TPH DRO		Analytica	I Method:	Mod. 8015B		Prep M	ethod: N/A
QC Batch:	31996		Date Ana	lyzed:	2006-11-17		Analyz	ed By: WR
Prep Batch:	21819		Sample P	reparation:	2006-11-16		Prepare	d By: WR
			RL					
Parameter		Flag	Result		Units		Dilution	RL
DRO		······································	<50.0		mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	50.0
and and find the first hand have been also and	a sense des des factors - El de sense factor de la desarrada a				an ann an San Ann an S	Spiles	Davaant	Decement
Surrogate	Flag	Result	Unite	n	vilution	Amount	Recovery	Limite
n-Triacontan	e	179	mg/Kg	•••• •••••••••••••••••••••••••••••••••	I	150	119	70 - 130
	and the second secon	<u>ี่ 1955 เมือง (ค.ศ. 1955 ค.ศ. 1956 ค.ศ.</u> 1955			े 14 के 19 के 19 कि	**************************************		
Sample: 109	0159 - SB-23 (13	-15')						
Analysis:	TPH GRO		Analytical	Method:	S 8015B		Pren Meth	od: \$ 5035
OC Batch:	32058		Date Analy	vzed:	2006-11-20		Analyzed	By: LO
Prep Batch:	27930		Sample Pr	eparation:			Prepared I	By: LO
			ъĩ					
Parameter	1	Flag	Result		Unite		Dilution	DI
GRO	•	105	<1.00	a ', va	mg/Kg		1	
				·			a بيت مسيم بيان سيتمري برين و ورد در و و مسالم. 	1.00
_						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.886	mg/Kg	1	1.00	89	70 - 130
4-Bromofluo	robenzene (4-BF	В)	1.07	mg/Kg	1	1.00	107	70 - 130

Plains006SPL	ovember 21, 2006			Work Ore Vaccuum	der: 6111629 Gathering 6"	Page Number: 11 of 2 Lea County, N		
Sample: 109160) - SB-23 (23-25')	**************************************					na n	
Analysis: B1	TEX		Analytical N	fethod:	S 8021B		Prep Met	hod: S 5035
QC Batch: 32	057		Date Analyz	ed:	2006-11-15		Analyzed	By: LO
Prep Batch: 27	930		Sample Prep	paration:			Prepared	By: LO
			RL	ı				
Parameter	Flag		Result		Units	Γ	Dilution	RI
Benzene			<0.0100		mg/Kg		Î	0.010
Toluene			< 0.0100	I.	mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene		مر مرکز بر مرکز مرکز مرکز مرکز مرکز مرکز مرکز مرک	< 0.0100		mg/Kg	a a fair ann an	I	0.0100
						Spike	Percent	Recover
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT)	×	0.894	mg/Kg	1	1.00	89	75 - 125
4-Bromofluorobe	enzene (4-BFB)		0.957	mg/Kg	1	1.00	96	75 - 125
Sample: 109160	- SB-23 (23-25')							
Sample: 109160 Analysis: TP	- SB-23 (23-25') H DRO		Analytica	I Method:	Mod. 8015B		Prep M	lethod: N/A
Sample: 109160 Analysis: TP QC Batch: 319	• SB-23 (23-25') H DRO 996		Analytica Date Anal	l Method:	Mod. 8015B 2006-11-17		Prep M Analyz	lethod: N/A ed By: WR
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278	- SB-23 (23-25') H DRO 996 879		Analytica Date Anal Sample Pr	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 : 2006-11-16		Prep M Analyz Prepare	lethod: N/A ed By: WR ed By: WR
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278	• SB-23 (23-25') H DRO 996 879		Analytica Date Anal Sample Pr RL	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 : 2006-11-16		Prep M Analyz Prepare	lethod: N/A ed By: WR ed By: WR
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278 Parameter	- SB-23 (23-25') H DRO 996 879 Flag		Analytica Date Anal Sample Pr RL Result	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 : 2006-11-16 Units	I	Prep M Analyz Prepare Dilution	lethod: N/A ed By: WR ed By: WR RL
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278 Parameter DRO	- SB-23 (23-25') H DRO 996 879 Flag		Analytica Date Anal Sample Pr RL Result <50.0	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 : 2006-11-16 Units mg/Kg	I	Prep M Analyz Prepare Dilution 1	lethod: N/A ed By: WR ed By: WR RL 50.0
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278 Parameter DRO	- SB-23 (23-25') H DRO 996 879 Flag	an fallen i französi fallan fallen fallen.	Analytica Date Anal Sample Pi RL Result <50.0	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg	Spike	Prep M Analyz Prepare Dilution I Percent	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery
Sample: 109160 Analysis: TP QC Batch: 319 Prep Batch: 278 Parameter DRO Surrogate	- SB-23 (23-25') H DRO 996 879 Flag Flag	Result	Analytica Date Anal Sample Pr RL Result <50.0 Units	l Method: lyzed: reparation	Mod. 8015B 2006-11-17 : 2006-11-16 Units mg/Kg Pilution	I Spike Amount	Prep M Analyz Prepare Dilution 1 Percent Recovery	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits

Analysis: QC Batch: Prep Batch:	32058 27930		Date Anal Sample Pr	yzed: eparation:	2006-11-20		Analyzed By Prepared By	
Parameter	Flag		RL Result		Units	D	vilution	RL
GRO	an a		<1.00	······································	mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.884	mg/Kg	1	1.00	88	70 - 130
4-Bromofluor	robenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	70 - 130

Sample: 109161 - SB-27 (13-15')

Analysis: QC Batch: Prep Batch:	BTEX 32057 27930		Analytical N Date Analyz Sample Prep	Method: zed: paration:	S 8021B 2006-11-15		Prep Met Analyzed Prepared	hod: \$ 5035 l By: LO By: LO
Demonster	F1.	_	RL	,	TT • .			DI
Parameter	Fla	<u>g</u>	Kesult	-	Units		Dilution	KL
Benzene			<0.0100	1	mg/Kg		1	0.0100
Toluene	_		<0.0100	1	mg/Kg		l	0.0100
Xvlene	3		<0.0100	1	mg/Kg mg/Kg		1	0.0100
	an a	<u></u>			<u>6</u> ,6	Snike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.896	mø/Kø		<u> </u>	90	75 - 125
4-Bromofluo	robenzene (4-BFB)		0.977	mg/Kg	1	1.00	98	75 - 125
Analysis: QC Batch: Prep Batch:	31996 27879		Analytica Date Anal Sample Pi	I Method: lyzed: reparation:	Mod. 8015B 2006-11-17 : 2006-11-16		Prep M Analyz Prepare	ed By: WR ed By: WR
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO	an a		<50.0		mg/Kg	na an ann an Albertaithe anns an Albertaithe	1	50.0
Surrogate	Flag	Result	Units	D	vilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		186	mg/Kg		1	150	124	70 - 130
Sample: 109	161 - SB-27 (13-15')							

Analysis: I	PH GRO		Analytical	Method:	S 8015B		Prep Meth	nod: \$ 5035
QC Batch: 3	2058		Date Anal	yzed:	2006-11-20		Analyzed	By: LO
Prep Batch: 2	7930		Sample Pr	eparation:			Prepared By:	
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00	· · · · · · · · · · · · · · · · · · ·	mg/Kg		1	1.00
Surrogate		Flag	Result	Unite	Dilution	Spike	Percent	Recovery
T-Augustalian		1 145	<u>A 604</u>	Units	Difution	Amount	Recovery	
Irinuorotoiuene	e(IFI)		0.883	mg/Kg	1	1.00	88	70 - 130
4-Bromofluorob	penzene (4-BFB)		1.12	mg/Kg	1	1.00	112	70 - 130

Report Date Plains006SP	: November 21, 2006 PL	6		Work Or Vaccuum	der: 6111629 Gathering 6"		Page Nu La	mber: 13 of 28 ea County, NM
Sample: 109)162 - SB-27 (23-25')				94-987 1949 1949 1949 1947 1947 1949 1947 1947 1947 1947 1947 1947 1947 1947 194		n an the vertice of the dependent of the de
Analysis:	BTEX		Analytical	Method:	S 8021B		Prep Me	thod: S 5035
QC Batch:	32057		Date Analy	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930		Sample Pre	paration:			Prepared	By: LO
			RI	L				
Parameter	Fla	g	Resul	lt	Units		Dilution	RL
Benzene	a an		<0.010	0	mg/Kg		I	0.0100
Toluene			<0.010	0	mg/Kg		1	0.0100
Ethylbenzene	2		< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.886	mg/Kg	1	1.00	89	75 - 125
4-Bromofluor	robenzene (4-BFB)		1.02	mg/Kg	<u> </u>	1.00	102	75 - 125
Analysis: QC Batch: Prep Batch:	TPH DRO 31996 27879		Analytica Date Ana Sample F	al Method: alyzed: Preparation	Mod. 8015B 2006-11-17 : 2006-11-16		Prep M Analyz Prepar	fethod: N/A zed By: WR ed By: WR
			RL				D 11.1	
Parameter	Flag		Kesuit		Units		Dilution	KL
	n formæren i finn ar sin er man er herer samer fin er sinse som er s		< 30.0	1977 - 19 79 - 1970 - 1979 -	mg/ k g	ر دوا در در <u>د مام مد مور مورو و منبو الموجوع م</u>	1 	30.0
	Flog	Decult	Unito	г	Vilution	Spike	Percent	Recovery
Surrogate	Flag	172	Units	L	Mution	Amount	Kecovery	
	an a	170	III gr Kg		I	150	117	70 - 130
ample: 1091	162 - SB-27 (23-25')	ł						
Analysis:	TPH GRO		Analytical	Method:	S 8015B		Prep Met	hod: S 5035
QC Batch:	32058		Date Anal	yzed:	2006-11-20		Analyzed	By: LO
rep Batch:	27930		Sample Pr	reparation:			Prepared	By: LO
			RL		_			
'arameter	Flag		Result		Units		Dilution	RL
iko			<1.00		mg/Kg		1	1.00
		121		TT */		Spike	Percent	Recovery
urrogate		riag	Kesult	Units	Dilution	Amount	Kecovery	Limits
Dromoduces	$\frac{1}{1} \left(\frac{1}{1} \right)$		0.800	mg/Kg	1	1.00	8/	70 - 130
-bromonuoro	Juenzene (4-BFB)		1.1/	mg/Kg	1	1.00	117	/0 - 130

I

Plains006SI	e: November PL	21, 2006		Work Order: 6111629 Vaccuum Gathering 6"				Page Number: 14 of 28 Lea County, NM		
Sample: 10	9163 - SB-2(0 (1.5-3')								
Analysis:	BTEX			Analytical N	Method:	S 8021B		Prep Met	hod: S 5035	
QC Batch:	32057			Date Analyz	zed:	2006-11-15		Analyzed	By: LO	
Prep Batch:	27930			Sample Pre	paration:			Prepared	By: LO	
				RL						
Parameter		Flag	5	Resul	t	Units	Ι	Dilution	RL	
Benzene				< 0.0100)	mg/Kg		1	0.0100	
Toluene				< 0.0100)	mg/Kg		1	0.0100	
Ethylbenzen	e			< 0.0100)	mg/Kg		1	0.0100	
Xylene				<0.0100)	mg/Kg		l	0.0100	
				_ -		_	Spike	Percent	Recovery	
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	iene (TFT)	4		0.889	mg/Kg	1	1.00	89	75 - 125	
4-Bromofluo	probenzene (4	4-BFB)		0.940	mg/Kg	1	1.00	94	75 - 125	
				-						
QC Batch: Prep Batch:	31996 27879			Date Ana Sample P	lyzed: reparation:	2006-11-17 2006-11-16		Analyz Prepare	ed By: WR ed By: WR	
QC Batch: Prep Batch:	31996 27879	51		Date Ana Sample P RL	lyzed: reparation:	2006-11-17 2006-11-16		Analyz Prepare	ed By: WR ed By: WR	
QC Batch: Prep Batch: Parameter	31996 27879	Flag		Date Ana Sample P RL Result	lyzed: reparation:	2006-11-17 2006-11-16 Units]	Analyz Prepare Dilution	red By: WR ed By: WR RL	
QC Batch: Prep Batch: Parameter DRO	31996 27879	Flag		Date Ana Sample P RL Result <50.0	lyzed: reparation:	2006-11-17 2006-11-16 Units mg/Kg]	Analyz Prepare Dilution	ed By: WR ed By: WR RL 50.0	
QC Batch: Prep Batch: Parameter DRO	31996 27879	Flag		Date Ana Sample P RL Result <50.0	lyzed: reparation:	2006-11-17 2006-11-16 Units mg/Kg	Spike	Analyz Prepare Dilution 1 Percent	ed By: WR ed By: WR RL 50.0 Recovery	
QC Batch: Prep Batch: Parameter DRO Surrogate	31996 27879 Fi	Flag	Result	Date Ana Sample P RL Result <50.0 Units	lyzed: reparation:	2006-11-17 2006-11-16 Units mg/Kg ilution	Spike Amount	Analyz Prepare Dilution 1 Percent Recovery	ed By: WR ed By: WR RL 50.0 Recovery Limits	
QC Batch: Prep Batch: Parameter DRO Surrogate 1-Triacontan	31996 27879 Fl	Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg	ilyzed: reparation:	2006-11-17 2006-11-16 <u>Units</u> mg/Kg ilution 1	Spike Amount 150	Analyz Prepare Dilution 1 Percent Recovery 120	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130	
QC Batch: Prep Batch: Parameter DRO Surrogate 1-Triacontan Sample: 109	31996 27879 Fi e 2163 - SB-20	Flag lag (1.5-3')	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg	lyzed: reparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1	Spike Amount 150	Analyz Prepare Dilution 1 Percent Recovery 120	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130	
QC Batch: Prep Batch: Parameter DRO Surrogate h-Triacontan Sample: 109 Analysis:	31996 27879 Fl e D163 - SB-20 TPH GRO	Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg	Iyzed: reparation: Di	2006-11-17 2006-11-16 Units mg/Kg ilution 1 S 8015B	Spike Amount 150	Analyz Prepare Dilution 1 Percent Recovery 120 Prep Metl	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130	
QC Batch: Prep Batch: Parameter DRO Surrogate h-Triacontan Sample: 109 Analysis: QC Batch:	31996 27879 Fl e P163 - SB-20 TPH GRO 32058	Flag dag (1.5-3')	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy	Iyzed: Preparation: Di Method: yzed:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 \$ 8015B 2006-11-20	Spike Amount 150	Analyz Prepare Dilution 1 Percent Recovery 120 Prep Mett Analyzed	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO	
QC Batch: Prep Batch: Parameter DRO Surrogate Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	31996 27879 Fl e P163 - SB-20 TPH GRO 32058 27930	Flag ag (1.5-3')	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr	Method: yzed: eparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 \$ \$015B 2006-11-20	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Mett Analyzed Prepared	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO	
QC Batch: Prep Batch: Parameter DRO Surrogate h-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch:	31996 27879 Fl e P163 - SB-20 TPH GRO 32058 27930	Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL	Iyzed: reparation: Di Method: yzed: eparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 \$ \$015B 2006-11-20	Spike Amount 150	Analyz Prepare Dilution 1 Percent Recovery 120 Prep Meth Analyzed Prepared	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO	
QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter	31996 27879 Fl e P163 - SB-20 TPH GRO 32058 27930	Flag lag (1.5-3') Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL Result	Iyzed: reparation: Di Method: yzed: eparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 \$ 8015B 2006-11-20 Units	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Meth Analyzed Prepared	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO RL	
QC Batch: Prep Batch: Parameter DRO Surrogate h-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch:	31996 27879 Fl e P163 - SB-20 TPH GRO 32058 27930	Flag dag (1.5-3') Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL Result <1.00	Iyzed: reparation: Di Method: yzed: eparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 S 8015B 2006-11-20 Units mg/Kg	Spike Amount 150	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Meth Analyzed Prepared Dilution	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO RL 1.00	
QC Batch: Prep Batch: Parameter DRO Surrogate 1-Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter SRO	31996 27879 Fi e P163 - SB-20 TPH GRO 32058 27930	Flag lag (1.5-3') Flag	Result 180	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL Result <1.00	Iyzed: reparation: Di Method: yzed: eparation:	2006-11-17 2006-11-16 Units mg/Kg ilution 1 \$ \$015B 2006-11-20 Units mg/Kg	Spike Amount 150 I	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Mett Analyzed Prepared Dilution 1 Percent	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO RL 1.00 Recovery	
QC Batch: Prep Batch: Parameter DRO Surrogate -Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Parameter JRO Surrogate	31996 27879 Fi e P163 - SB-20 TPH GRO 32058 27930	Flag (1.5-3') Flag	Result 180 Flag	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL Result <1.00 Result	Iyzed: reparation: Di Method: yzed: eparation: Units	2006-11-17 2006-11-16 Units mg/Kg ilution 1 S 8015B 2006-11-20 Units mg/Kg Dilution	Spike Amount 150 I Spike Amount	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Meth Analyzed Prepared Dilution 1 Percent Recovery	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO RL 1.00 Recovery Limits	
QC Batch: Prep Batch: Parameter DRO Surrogate -Triacontan Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter JRO Surrogate Trifluorotolue	31996 27879 Fl e P163 - SB-20 TPH GRO 32058 27930 ene (TFT)	Flag dag (1.5-3') Flag	Result 180 Flag	Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pr RL Result <1.00 Result 0.882	Ilyzed: reparation: Di Method: yzed: eparation: Units mg/Kg	2006-11-17 2006-11-16 Units mg/Kg ilution 1 S 8015B 2006-11-20 Units mg/Kg Dilution 1	Spike Amount 150 I Spike Amount 1.00	Analyz Prepard Dilution 1 Percent Recovery 120 Prep Meth Analyzed Prepared Dilution 1 Percent Recovery 88	ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO Recovery Limits 70 - 130	

Report Date Plains006SI	e: November PL	21, 2006			Work Ord Vaccuum	Page Number: 15 of 28 Lea County, NM			
Sample: 10	9164 - SB-2	0 (23-25')							
Analysis:	BTEX			Analytical N	Method:	S 8021B		Prep Met	hod: \$ 5035
QC Batch:	32057			Date Analyz	zed:	2006-11-15		Analyzeo	By: LO
Prep Batch:	27930			Sample Prep	paration:			Prepared	By: LO
				RL	<i>.</i>	T T			DI
Parameter		Flag		Kesul	[, Units	na managan na sanagan sa	Dilution	
Toluene)	mg/Kg		1	0.0100
Ethylbenzen	e			<0.0100	,)	mg/Kg		1	0.0100
Xvlene				< 0.0100	,)	mg/Kg		Î	0.0100
		\ <u></u>							
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)	-1, 0+4, 144, 4-5, 11		0.908	mg/Kg	1	1.00	91	75 - 125
4-Bromofluo	orobenzene (4-BFB)		0.977	mg/Kg	1	1.00	98	75 - 125
Sample: 109	9164 - SB-20	0 (23-25')		Analytica	l Method:	Mod 8015B		Pren M	fethod: N/A
Analysis:	1PH DRO			Analytica	luzodi	MOG. 8015B		Prep N	rethod: N/A
QC Datch:	31990 37870			Sample P	reparation:	2006-11-17		Prenar	ed By: WR
r top Baton.	21017			Sumple I	reparation.	2000 11 10		Topu	
				RL					
Parameter		Flag		Result		Units		Dilution	RL
DRO				<50.0		mg/Kg	- The Maria Control of the Solid Statement	l	50.0
							Spike	Percent	Recovery
Surrogate	F	lag	Result	Units	D	ilution	Amount	Recovery	Limits
n-Triacontan	e	an a	172	mg/Kg		I	150	115	70 - 130
Sample: 109 Analysis: QC Batch: Prep Batch:	0164 - SB-20 TPH GRO 32058 27930) (23-25')		Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8015B 2006-11-20		Prep Met Analyzed Prepared	hod: S 5035 By: LO By: LO
		F1		RL		T To Sta		Dilution	DI
GRÓ		Fiag			· · · · · · · · · · · · · · · · · · ·	mg/Kg	.,		KL 1 00
		The dense of the test of the first of	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, 		و القريبيو بو رييد ماييوند	1115/155		• •	
Surrogate			Flag	Recult	Unite	Dilution	Spike	Percent	Kecovery
Trifluorotolu	ene (TFT)	· · · · · · · · · · · · · · · · · · ·	1 iag	0.205	mo/Ka	1	1 10	QA	70 - 130
1.Bromofluo	robenzene (4	4-BFR)		1 14	mø/Ko	1	1.00	114	70 - 130
Diomoniuo				••••••••••••••••••••••••••••••••••••••			1.00		,0 ,50

Plains006SI	PL	21, 2006			Work Ord Vaccuum	Page Number: 16 of 28 Lea County, NM			
Sample: 109	916 5 - SB-26	(13-15')							
Analysis:	BTEX			Analytical I	Method:	S 8021B		Prep Met	hod: \$ 5035
QC Batch:	32057			Date Analy:	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930			Sample Pre	paration:			Prepared	By: LO
				RI					
Parameter		Flag		Resul	t	Units		Dilution	RL
Benzene				<0.0100)	mg/Kg		1	0.0100
Toluene Ethylbongon	<u>_</u>			< 0.0100) \	mg/Kg		1	0.0100
Euryibenzen Vulono	E))	mg/Kg		1	0.0100
Aylene			<u></u>	<0.010) 866.179	IIIg/Kg	n a fallan an a	L 	0.0100
Surrogate			Flag	Result	Unite	Dilution	Spike Amount	Percent	Recovery Limits
Triffuorotolu	ene (TFT)		1 148	<u> </u>	molka	1		90	75 - 125
4-Bromofluo	robenzene (4	-BFB)		1.05	mø/Kø	1	1.00	105	75 - 125
Sample: 109	165 - SB-26	(13-15')							
Analysis:	TPH DRO			Analytica	al Method:	Mod. 8015B		Prep M	lethod: N/A
Analysis: QC Batch:	TPH DRO 31996			Analytica Date Ana	al Method: lyzed:	Mod. 8015B 2006-11-17		Prep M Analyz	ethod: N/A ed By: WR
Analysis: QC Batch: Prep Batch:	TPH DRO 31996 27879			Analytica Date Ana Sample P	al Method: lyzed: reparation:	Mod. 8015B 2006-11-17 : 2006-11-16		Prep M Analyz Prepare	lethod: N/A ed By: WR ed By: WR
Analysis: QC Batch: Prep Batch:	TPH DRO 31996 27879			Analytica Date Ana Sample P RL	al Method: lyzed: reparation:	Mod. 8015B 2006-11-17 2006-11-16		Prep M Analyz Prepare	lethod: N/A ed By: WR ed By: WR
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 31996 27879	Flag		Analytica Date Ana Sample P RL Result	al Method: lyzed: reparation:	Mod. 8015B 2006-11-17 2006-11-16 Units		Prep M Analyz Prepare Dilution	lethod: N/A ed By: WR ed By: WR RL
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 31996 27879	Flag		Analytica Date Ana Sample P RL Result <50.0	al Method: alyzed: reparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg		Prep M Analyz Prepare Dilution	lethod: N/A ed By: WR ed By: WR RL 50.0
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 31996 27879	Flag		Analytica Date Ana Sample P RL Result <50.0	al Method: lyzed: reparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg	Spike	Prep M Analyz Prepare Dilution 1 Percent	lethod: N/A ed By: WR ed By: WR <u>RL</u> 50.0 Recovery
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 31996 27879 Fla	Flag	Result	Analytica Date Ana Sample P RL Result <50.0 Units	nl Method: Ilyzed: reparation: D	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg	Spike Amount	Prep M Analyz Prepare Dilution 1 Percent Recovery	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontane	TPH DRO 31996 27879 Fla	Flag	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg	nl Method: nlyzed: reparation: D	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg	Spike Amount 130	Prep M Analyz Prepare Dilution 1 Percent Recovery 125	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate -Triacontane Sample: 109	TPH DRO 31996 27879 Fla e 165 - SB-26	Flag Ag (13-15')	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg	il Method: ilyzed: reparation: D	Mod. 8015B 2006-11-17 2006-11-16 <u>Units</u> mg/Kg	Spike Amount 150	Prep M Analyz Prepare Dilution I Percent Recovery 125	lethod: N/A ed By: WR ed By: WR <u>RL</u> 50.0 Recovery Limits 70 - 130
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate h-Triacontane Sample: 109 Analysis:	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO	Flag ag (13-15')	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg	Il Method: Ilyzed: reparation: D D	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg bilution 1 S 8015B	Spike Amount 150	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth	lethod: N/A ed By: WR ed By: WR <u>RL</u> 50.0 Recovery Limits 70 - 130
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate 1-Triacontane Sample: 109 Analysis: QC Batch:	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058	Flag ag (13-15')	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal	Il Method: Iyzed: reparation: D Method: yzed:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg pilution 1 S 8015B 2006-11-20	Spike Amount 130	Prep M Analyz Prepare Dilution 1 Percent Recovery 125 Prep Meth Analyzed	lethod: N/A ed By: WR ed By: WR <u>RL</u> 50.0 Recovery Limits 70 - 130 nod: S 5035 By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontant Sample: 109 Analysis: QC Batch: Prep Batch:	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag ag (13-15')	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr	Il Method: Iyzed: reparation: D Method: yzed: eparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg bilution 1 S 8015B 2006-11-20	Spike Amount 150	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth Analyzed Prepared I	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 nod: S 5035 By: LO By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontance Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag ag (13-15') Flag	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result	Il Method: Ilyzed: reparation: D Method: yzed: eparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg bilution 1 S 8015B 2006-11-20 Units	Spike Amount 150	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth Analyzed Prepared I Dilution	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 nod: S 5035 By: LO By: LO By: LO
Analysis: QC Batch: Prep Batch: Parameter DRO Gurrogate -Triacontand Gample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter JRO	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag ag (13-15') Flag	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	Il Method: Iyzed: reparation: D Method: yzed: eparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg 0ilution 1 S 8015B 2006-11-20 Units mg/Kg	Spike Amount 130	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth Analyzed Prepared I Dilution	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 nod: S 5035 By: LO By: LO By: LO RL I.00
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate 1-Triacontand Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter JRO	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag ag (13-15') Flag	Result 187	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	Il Method: Ilyzed: reparation: D Method: yzed: eparation:	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg bilution 1 S 8015B 2006-11-20 Units mg/Kg	Spike Amount 130 Snike	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth Analyzed Prepared I Dilution I Percent	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 nod: S 5035 By: LO By: LO By: LO Recovery RL 1.00
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate -Triacontand Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag ^{ng} (13-15') Flag	Result 187 Flag	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00	Il Method: Ilyzed: reparation: D Method: yzed: eparation: Units	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg 0ilution 1 S 8015B 2006-11-20 Units mg/Kg Dilution	Spike Amount 130 Spike Amount	Prep M Analyz Prepare Dilution 1 Percent Recovery 125 Prep Meth Analyzed Prepared 1 Dilution 1 Percent Recovery	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO Recovery Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate -Triacontane Sample: 109 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Frifluorotolue	TPH DRO 31996 27879 Fla e 165 - SB-26 TPH GRO 32058 27930	Flag Ag (13-15') Flag	Result 187 Flag	Analytica Date Ana Sample P RL Result <50.0 Units mg/Kg Analytical Date Anal Sample Pr RL Result <1.00 Result 0.870	Il Method: lyzed: reparation: D Method: yzed: eparation: <u>Units</u> mg/Kg	Mod. 8015B 2006-11-17 2006-11-16 Units mg/Kg bilution 1 S 8015B 2006-11-20 Units mg/Kg Dilution	Spike Amount 150 Spike Amount 1.00	Prep M Analyz Prepare Dilution I Percent Recovery 125 Prep Meth Analyzed Prepared I Dilution I Percent Recovery 87	lethod: N/A ed By: WR ed By: WR RL 50.0 Recovery Limits 70 - 130 hod: S 5035 By: LO By: LO By: LO Recovery Limits 70 - 130

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Report Data Plains006S	e: November 21, 2 PL	006		Work Ord Vaccuum	ler: 6111629 Gathering 6"	Page Number: 17 of 23 Lea County, NM			
Sample: 10	9166 • SB-26 (25-	26')							
Analysis:	BTEX		Analytical N	Method:	S 8021B		Prep Met	hod: S 5035	
QC Batch:	32057		Date Analyz	zed:	2006-11-15		Analyzed	IBy: LO	
Prep Batch:	27930		Sample Pre	paration:			Prepared	By: LO	
			זק						
Parameter		Flag	Result	2 t	Units		Dilution	RI.	
Benzene	and and the set of the		< 0.0100)	mg/Kg	an is an	T	0.0100	
Toluene			< 0.0100	,)	mg/Kg		1	0.0100	
Ethylbenzen	e		< 0.0100)	mg/Kg		1	0.0100	
Xylene	-		< 0.0100)	mg/Kg		1	0.0100	
	e dell'a seur à sette color a color				······································			in the state of th	
-						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	iene (TFT)		0.901	mg/Kg	1	1.00	90	75 - 125	
4-Bromofluc	probenzene (4-BFI	3)	1.02	mg/Kg		1.00	102	75 - 125	
Sample: 10	9166 - SB-26 (25-:	26')							
Analysis:	TPH DRO		Analytica	I Method:	Mod. 8015B		Prep M	fethod: N/A	
QC Batch:	31996		Date Ana	lyzed:	2006-11-17		Analyz	ed By: WR	
Prep Batch:	27879		Sample P	reparation:	2006-11-16		Prepar	ed By: WR	
			RL						
Parameter	Fl	ag	Result		Units		Dilution	RL	
DRO			<50.0		mg/Kg		1	50.0	
						Coika	Democrit	Baaayam	
Surrogate	Floo	Decult	Linito	n	ilution	Amount	Percent	Limito	
n Triacontan	1'idg	107	ma/k a		1	150	135	70 - 120	
n- i nacontan	6	10/	mg/ k g		Ŧ	150	143	70 - 130	

Sample: 109166 - SB-26 (25-26')

Analysis:TPH GROQC Batch:32058Prep Batch:27930			Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8015B 2006-11-20		Prep Method: Analyzed By Prepared By:		
Parameter	Flag		RL Result	Ĩ	Units	D	ilution	RL	
GRO			<1.00	- Marine and the second se	mg/Kg		l	1.00	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT)	in levelisti in e	0.873	mg/Kg	1	1.00	87	70 - 130	
4-Bromofluo	robenzene (4-BFB)		1.18	mg/Kg	1	1.00	118	70 - 130	

Report Date Plains006SH	Report Date: November 21, 2006Work Order: 6111629Page Number:Plains006SPLVaccuum Gathering 6"Lea Cou						nber: 18 of 28 a County, NM		
Sample: 109	9167 - SB-22	(3-5')							
Analysis:	BTEX			Analytical M	Aethod:	\$ 8021B		Prep Met	hod: \$ 5035
QC Batch:	32057			Date Analyz	zed:	2006-11-15		Analyzed	By: LO
Prep Batch:	27930			Sample Prep	paration:			Prepared	By: LO
				RL					
Parameter	a and a state of the	Flag		Result		Units	I	Dilution	RL
Benzene				< 0.0100		mg/Kg		1	0.0100
l'oluene				<0.0100	1	mg/Kg		i 1	0.0100
Ethylbenzen	e			<0.0100		mg/Kg		1	0.0100
X ylene		· · · ·		<0.0100		mg/ k g		L	0.0100
				. .			Spike	Percent	Recovery
Surrogate	10010 - 100		Flag	Kesult	Units	Dilution	Amount	Kecovery	Limits
irifluorotolu	ene (TFT)	DED		0.896	mg/Kg	1	1.00	90	75 - 125
-Bromonuo	robenzene (4-	BFB)	·····	1.02	mg/Kg	,	1.00	IUZ	73 - 123
Sample: 109)167 - SB-22 ((3-5')							
nalysis:	TPH DRO			Analytica	l Method:	Mod. 8015B		Prep M	lethod: N/A
C Batch:	31996			Date Ana	lyzed:	2006-11-17		Analyz	ed By: WR
rep Batch:	27879			Sample P	reparation:	2006-11-16		Prepare	ed By: WR
				RL					
arameter		Flag	-	Result		Units		Dilution	RL
ORO	·····	·		<50.0	******	mg/Kg		1	50.0
							Spike	Percent	Recovery
urrogate	Fla	g	Result	Units	D	ilution	Amount	Recovery	Limits
-Triacontane	8		183	mg/Kg		1	150	122	70 - 130
ample: 109	167 - SB-22 (3-5')							
nalysis:	TPH GRO			Analytical	Method:	S 8015B		Prep Meth	nod: S 5035
C Batch:	32058			Date Analy	yzed:	2006-11-20		Analyzed	By: LO
rep Batch:	27930			Sample Pro	eparation:			Prepared	By: LO
arameter		Flag		RL Result		Unite	1	Dilution	DI
RO	2.33 	1 145		<1.00		mo/Ko	د 	1	
	·····			<u></u>	erigistikka inginaan araw akean ar	<u>6/15</u>			1.00
			Flag	Decult	T T :*	Dibution	Spike	Percent	Recovery
urrogate			riag	Kesult	Units		Amount	Kecovery oz	
Dromodule	$\operatorname{HC}(1\mathbf{f}1)$			0.604	mg/Kg	1	1.00	80 1 1 0	70 - 130
- SEARANDAR	ODELIZENE (4-1	οΓΒΙ		1.18	mg/Kg	1	1.00	118	70 - 1.50

Sample: 109168 - SB-22 (23-25')

Analysis:	BTEX		Analytical I	Method:	S 8021B		Prep Metho	d: \$ 5035
QC Batch:	32057		Date Analy:	zed:	2006-11-15		Analyzed E	y: LO
Prep Batch:	27930		Sample Prep	paration:			Prepared B	y: LO
_			RL					
Parameter	Fla	5	Resul	t	Units		Dilution	RL
Benzene			< 0.0100)	mg/Kg		1	0.0100
Toluene			< 0.0100)	mg/Kg		1	0.0100
Ethylbenzer	e		< 0.0100)	mg/Kg		1	0.0100
Xylene	· · · · · · · · · · · · · · · · · · ·		< 0.0100) 	mg/Kg		1	0.0100
						Snika	Dercent	Decoveru
Surrogata		Flag	Pacult	Unite	Dilution	Amount	Pecovery	Limite
Trifluorotoli	ione (TET)	Tiag	<u> </u>	malka		1.00	00	75 175
4 Bromoflu	vrohenzene (A-RFR)		1.02	mg/Kg	, 1	1.00	102	75 - 125
4-Diomonu			1.02	mg/ Kg	, L	1.00	102	13-123
Sample: 10 Analysis: QC Batch: Prep Batch: Parameter DRO	9168 - SB-22 (23-25') TPH DRO 31996 27879 Flag	Strategy Strategy and Strategy	Analytica Date Ana Sample P RL Result <50.0	Il Method: lyzed: reparation	Mod. 8015B 2006-11-17 1: 2006-11-16 Units mg/Kg		Prep Met Analyzed Prepared Dilution 1	hod: N/A i By: WR By: WR RL 50.0
			and the second	No. 1997 Anna Anna Albana Anna Anna				
a ,		Dest		г		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	L		Amount	Kecovery	
n-Triacontan	e	1/3	mg/Kg			150	113	70 - 130
a 1 10								
Sample: 109	9168 - SB-22 (23-25')							
Analysis	9168 - SB-22 (23-25') TPH GRO		Analytical	Method	S 8015B		Pren Metho	d· \$ 5035
Analysis:	9168 - SB-22 (23-25') TPH GRO 32058		Analytical	Method:	S 8015B		Prep Metho	d: \$ 5035
Analysis: QC Batch: Pren Batch:	9168 - SB-22 (23-25') TPH GRO 32058 27930		Analytical Date Analy Sample Pr	Method: yzed:	S 8015B 2006-11-20		Prep Metho Analyzed B Prenared By	d: S 5035 y: LO

Parameter	Flag		RL Result		Units	D	ilution	RL	
GRO		<1.00			mg/Kg	······································	1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		·*·	0.755	mg/Kg	I	1.00	76	70 - 130	
4-Bromofluorobenzene (4-E	BFB)		0.950	mg/Kg	1	1.00	95	70 - 130	

Report Data Plains006S	e: November 21, 200 PL	6		Work Ord Vaccuum	er: 6111629 Gathering 6"		Page Number: 20 of 28 Lea County, NM		
Sample: 10	9169 - SB-22 (33-35	')							
Analysis:	BTEX		Analytical N	Method:	S 8021B		Prep Meth	od: \$ 5035	
QC Batch: Prep Batch:	32057 27930		Date Analyzed: Sample Preparation:		2006-11-15		Analyzed Prepared I	By: LO By: LO	
			RL	,					
Parameter	Fl	ag	Result	t	Units		Dilution	RL	
Benzene	**************************************		<0.0100	ſ	mg/Kg		I	0.0100	
Toluene			< 0.0100		mg/Kg		1	0.0100	
Ethylbenzen	e		< 0.0100		mg/Kg		1	0.0100	
Xylene	The fact with the second s		< 0.0100) 	mg/Kg		1	0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	iene (TFT)	A CONTRACTOR OF A CONTRACTOR	0.911	mg/Kg		1.00	91	75 - 125	
4-Bromofluc	probenzene (4-BFB)		1.01	mg/Kg	<u>l</u>	1.00	101	75 - 125	
Sample: 109	9169 - SB-22 (33-35	')							
Analysis:	TPH DRO		Analytica	l Method:	Mod. 8015B		Prep Me	ethod: N/A	
QC Batch:	31996		Date Ana	lyzed:	2006-11-17		Analyze	d By: WR	
Prep Batch:	27879		Sample P	reparation:	2006-11-16		Prepared	By: WR	
			RL						
Parameter	Flag	وردامه المراجع الاستقاد المراجع المراجع	Result	1. 4. Juni 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Units		Dilution	RL	
DRO		******	<50.0	a waada waxaa ahaa ahaa ahaa ahaa ahaa	mg/Kg		<u>l</u>	50.0	
						Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Di	lution	Amount	Recovery	Limits	
I-Triacontan	e	187	mg/Kg		1	150	125	70 - 130	

Sample: 109169 - SB-22 (33-35')

Analysis: QC Batch: Prep Batch:	TPH GRO 32058 27930	Analytical Metho Date Analyzed: Sample Preparati			S 8015B 2006-11-20		Prep Method: Analyzed By: Prepared By:	
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		l	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.875	mg/Kg	1	1.00	88	70 - 130
4-Bromofluo	robenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	70 - 130

Method	Riank (1)	OC Batel	h. 31996
MECHIOU	$\operatorname{Diam}(1)$	QC Bail	n. 31330

QC Batch:	31996	Date Analyzed:	2006-11-17	Analyzed By:	WR
Prep Batch:	27879	QC Preparation:	2006-11-17	Prepared By:	WR

Report Date: November 21, 2006 Plains006SPL

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Daram		LCSD Besult	Unit	c Dil	Spike	Matrix	Dec	R	ec.	DDD	RPD Limit
DRO		744	mo/K	$\frac{1}{2}$	250		02	70 -	130	-7	
Dercent recovery is based on	the spile	recult DD	D in her	od on the	nilco and ani	ka dunliaata			150		
Percent recovery is based on	ule spike	e lesuit. KP	D IS Das	ed on the s	spike and spi	ke dupncate	result.				
	LCS	LCSI	D			Spike	L	CS	LCSD)	Rec.
Surrogate	Result	Resu	lt	Units	Dil.	Amoun	t R	ec.	Rec.		Limit
n-Triacontane	138	150	China ananan	mg/Kg	1	150	9	2	100		70 - 130
an a		• • • • • • • • • • • • • • • • • • • •				·····	an ana ang ang ang ang ang ang ang ang a	k Tempi Tun Amerika	- And the sale of a second of		Service - Service - Andrew School Service
Laboratory Control Spike	(LCS-1)										
OC Batch: 32057			Date	Analyzed	2006-11-	15			Ana	lvzed I	av∙ LO
Prep Batch: 27930			OCF	Prenaration	: 2006-11-	15			Pren	ared B	v: LO
			201	reputation		10			Thep	ured E	<i>j</i> . <u>L</u> 0
		LCS	5			Spike	Ma	trix			Rec.
Param		Resu	lt	Units	Dil.	Amount	Re	sult	Rec	•	Limit
Benzene		1.01		mg/Kg	1	1.00	<0.0	0270	101		70 - 130
Toluene		0.999)	mg/Kg	1	1.00	<0.0	0320	100		70 - 130
Ethylbenzene		0.997	7	mg/Kg	1	1.00	<0.0	0340	100		70 - 130
Xylene		3.01		mg/Kg	1	3.00	<0.	0104	100	1	70 - 130
Percent recovery is based on	the spike	result. RPI) is bas	ed on the s	pike and spi	ke duplicate	result.		andre andre and and a state	- <u>1-4-6</u> -1-7	
		LCSD			Spike	Matrix		R	ec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Li	mit	RPD	Limit
Benzene		1.00	mg/Kg	I	1.00	< 0.00270) 100	70 -	130	Ĩ	20
Toluene		0.996	mg/Kg	1	1.00	< 0.00320) 100	70 -	130	0	20
Ethylbenzene		0.997	mg/Kg	1	1.00	< 0.00340) 100	70 -	130	0	20
Xylene		3.01	mg/Kg	1	3.00	< 0.0104	100	70 -	130	0	20
Percent recovery is based on	the spike	result. RPI) is base	ed on the s	pike and spil	ke duplicate	result.	8 •	- Tene a Martine dan merupakan	anitenantanite aran a	- Alex - 14 16 19 19 19
		LCS	L	.CSD		S	pike	LCS	LCS	D	Rec.
Surrogate		Resul	t R	esult	Units		nount	Rec.	Rec		Limit
Sunogate		110001	. n	Count	Unita	$\nu_{\rm H}$ Λ					
Trifluorotoluene (TFT)		0.919		1.902	mg/Kg	$\frac{D_{11}}{1}$	1.00	92	90		70 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BI	FB)	0.919 0.987).902).983	mg/Kg mg/Kg	1 1	1.00 1.00	92 99	90 98		70 - 130 70 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930	⁻ B) LCS-1)	0.919 0.987	Date . QC P	Analyzed: reparation:	2006-11-2 2006-11-2	20 15	1.00	92 99	90 98 Anal Prep	yzed E ared B	70 - 130 70 - 130 By: LO y: LO
Triffuorotoluene (TFT) 4-Bromofluorobenzene (4-BF Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930	FB) LCS-1)	0.919 0.987	Date	Analyzed: reparation:	2006-11- 2006-11-	20 15 Spike	1.00 1.00 Ma	92 99	90 98 Anal Prep	yzed E ared B	70 - 130 70 - 130 sy: LO y: LO Rec.
Triffuorotoluene (TFT) 4-Bromofluorobenzene (4-BF Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930 Param	FB) LCS-1)	0.919 0.987 LCS Resul	Date . QC P	0.902 0.983 Analyzed: reparation: Units	2006-11-2 2006-11-2 2006-11-2 Dil.	20 15 Spike Amount	1.00 1.00 Ma Re	92 99 atrix sult	90 98 Anal Prepa Rec.	yzed E ared B	70 - 130 70 - 130 by: LO y: LO Rec. Limit
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930 Param GRO	FB) LCS-1)	LCS Resul 9.56	Date . QC P	Analyzed: reparation: Units mg/Kg	2006-11-2 2006-11-2 2006-11-2 Dil. 1	20 15 Spike Amount 10.0	1.00 1.00 Ma Re 2.3	92 99 attrix sult 079	90 98 Anal Prep Rec. 72	yzed E ared B	70 - 130 70 - 130 By: LO y: LO Rec. Limit 70 - 130
Triffuorotoluene (TFT) 4-Bromofluorobenzene (4-BF Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930 Param GRO Percent recovery is based on t	FB) LCS-1) the spike	LCS Resul 9.56 result. RPD	Date . QC P It	Analyzed: reparation: <u>Units</u> <u>mg/Kg</u> d on the sp	2006-11- 2006-11- 2006-11- Dil. 1 pike and spik	20 15 Spike Amount 10.0 re duplicate	1.00 1.00 Ma Re 2.3 result.	92 99 attrix sult 079	90 98 Anal Prep Rec. 72	yzed E ared B	70 - 130 70 - 130 By: LO y: LO Rec. Limit 70 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BI Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930 Param GRO Percent recovery is based on (FB) LCS-1) the spike	LCS Resul 9.56 result. RPD LCSD	Date . QC P	Analyzed: reparation: <u>Units</u> <u>mg/Kg</u> d on the sp	2006-11- 2006-11- 2006-11- Dil. 1 pike and spik Spike	20 15 Spike Amount 10.0 te duplicate Matrix	1.00 1.00 Ma Re 2.3 result.	92 99 attrix sult 079 Re	90 98 Anal Prep Rec. 72	yzed E ared B	70 - 130 70 - 130 By: LO y: LO Rec. Limit 70 - 130 RPD
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BI Laboratory Control Spike (QC Batch: 32058 Prep Batch: 27930 Param GRO Percent recovery is based on to Param	FB) LCS-1) the spike	LCS Result LCS Result LCSD Result	Date . QC Pi lt is base	Analyzed: reparation: <u>Units</u> <u>mg/Kg</u> d on the sp Dil.	2006-11- 2006-11- 2006-11- Dil. 1 pike and spike Amount	20 15 Spike Amount 10.0 te duplicate Matrix Result	1.00 1.00 Ma Re 2.3 result. Rec.	92 99 attrix sult 079 Re Lin	90 98 Anal Prep Rec. 72 c.	yzed E ared B	70 - 130 70 - 130 By: LO y: LO Rec. Limit 70 - 130 RPD Limit

Plains006SPL	21, 2006		Worl Vacc	.629 g 6"	P:	Page Number: 23 of 28 Lea County, NM			
Surrogate		LCS Result	LCSD Result	Units	S Dil. Aı	Spike mount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	- Hiller and a second state of a first second	0.865	0.864	mg/Kg	T	1.00	86	86	70 - 130
4-Bromofluorobenzene (4	-BFB)	1.10	1.11	mg/Kg	1	1.00	110	111	70 - 130
Matrix Spike (MS-1)	Spiked Samp	le: 109152							
QC Batch: 31996			Date Analyzed	: 2006-11-	17			Analyzed E	By: WR
Prep Batch: 27879		1	QC Preparation	n: 2006-11-	17			Prepared B	y: WR
		MS			Spike	M	atrix		Rec.
Param		Result	Units	Dil.	Amount	Re	esult	Rec.	Limit
DRO		669	mg/Kg	I	250	3	24	138	70 - 130
Percent recovery is based	on the spike	result. RPD i	s based on the	spike and spil	ke duplicate	result.	99 , 4 , 6, ₂₀₀ , 4 ₀₀ ,	<u>,, 4, 4, 5, 5, 7, 8</u>	
		MSD		Spike	Matrix		Rec.		RPD
Param		Result	Units Dil.	Amount	Result	Rec.	Limit	RPD	Limi
DRO	4	747 n	ng/Kg l	250	324	169	70 - 130	D 11	20
	MS Result	MSD Result	Jused on the		Spike	ιcsuit. λ	AS I	MSD	Rec.
Surrogate 56	Acsuit	ACSUIL 333			Amoun		ec. 72	Rec.	70 120
I Indeontane	<i>40 •</i>			-	100		50		10 150
	- Nan Yang Katalan Sang Katalan Katalan San	Kara on the second of		······					
Matrix Spike (MS-1) S	piked Sampl	e: 109168					unanda un fact a filma dana dana		
Matrix Spike (MS-1) S OC Batch: 32057	piked Sampl	e: 109168	Date Analyzed	: 2006-11-	15		ana ka na ka	Analyzed	Bv: LO
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930	piked Sampl	e: 109168	Date Analyzed OC Preparation	: 2006-11- 1: 2006-11-	15			Analyzed I Prenared B	By: LO
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930	piked Sampl	e: 109168	Date Analyzed QC Preparation	: 2006-11- 1: 2006-11-	15 15			Analyzed I Prepared B	By: LO Sy: LO
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930	piked Sampl	e: 109168 MS	Date Analyzed QC Preparation	: 2006-11- 1: 2006-11-	15 15 Spike	Mat	rix	Analyzed I Prepared B	By: LO By: LO Rec.
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param	piked Sampl	e: 109168 MS Result	Date Analyzed QC Preparation Units	: 2006-11- i: 2006-11- Dil.	15 15 Spike Amount	Mat Res	rix ult	Analyzed I Prepared B Rec.	By: LO By: LO Rec. Limit
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene	piked Sampl	e: 109168 MS Result 0.858 0.878	Date Analyzed QC Preparation Units mg/Kg	: 2006-11- a: 2006-11- Dil. I	15 15 Spike Amount 1.00	Mat Res <0.00	rix ult)270	Analyzed I Prepared B Rec. 86	By: LO By: LO Rec. Limit 70 - 130
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene	piked Sampl	e: 109168 MS Result 0.858 0.878 0.902	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg	: 2006-11- : 2006-11- Dil. 1 1	15 15 Spike Amount 1.00 1.00	Mat Res <0.00 <0.00	rix ult)270)320)340	Analyzed I Prepared B Rec. 86 88 90	By: LO by: LO Rec. Limit 70 - 130 70 - 130
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Kylene	piked Sampl	e: 109168 MS Result 0.858 0.878 0.902 2.74	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg mg/Kg	: 2006-11- : 2006-11- Dil. 1 1 1 1	15 15 Spike Amount 1.00 1.00 1.00 3.00	Mat Res <0.00 <0.00 <0.00 <0.00	rix ult)270)320)340 104	Analyzed I Prepared E Rec. 86 88 90 91	By: LO By: LO Rec. Limit 70 - 130 70 - 130 70 - 130 70 - 130
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is based o	piked Sampl	e: 109168 MS Result 0.858 0.878 0.902 2.74 esult. RPD is	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg mg/Kg s based on the s	: 2006-11- : 2006-11- Dil. I 1 1 1 1 1 1 1 1 1 1 1 1 1	15 15 Spike Amount 1.00 1.00 1.00 3.00 xe duplicate 1	Mat Res <0.00 <0.00 <0.00 <0.00 result.	rix ult)270)320)340 104	Analyzed I Prepared B Rec. 86 88 90 91	By: LO By: LO Rec. Limit 70 - 130 70 - 130 70 - 130 70 - 130
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is based o	piked Sampl	MS Result 0.858 0.878 0.902 2.74 esult. RPD is	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg mg/Kg s based on the s	: 2006-11- : 2006-11- Dil. I 1 1 1 Spike and spik Spike	15 Spike Amount 1.00 1.00 3.00 te duplicate 1 Matrix	Mat Res <0.00 <0.00 <0.00 <0.0 result.	rix ult)270)320)340 104 Rec.	Analyzed I Prepared B Rec. 86 88 90 91	By: LO y: LO Rec. Limit 70 - 130 70 - 130 70 - 130 70 - 130 RPD
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Cylene Percent recovery is based of Param	piked Sampl	MS Result 0.858 0.878 0.902 2.74 esult. RPD is MSD Result U	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg s based on the s nits Dil.	: 2006-11- : 2006-11- Dil. I I I Spike and spike Amount	15 Spike Amount I.00 I.00 3.00 te duplicate I Matrix Result	Mat Res <0.00 <0.00 <0.00 result. Rec.	rix ult)270)320)340 104 Rec. Limit	Analyzed I Prepared B Rec. 86 88 90 91 81 RPD	By: LO y: LO Rec. Limit 70 - 130 70 - 130 70 - 130 RPD Limit
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Cylene Percent recovery is based of Param Benzene	piked Sampl on the spike r	e: 109168 MS Result 0.858 0.878 0.902 2.74 esult. RPD is MSD Result U 1.05 mg	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg s based on the s nits Dil.	: 2006-11- : 2006-11- Dil. I 1 1 1 Spike and spike Amount 0.00	15 15 Spike Amount 1.00 1.00 1.00 3.00 te duplicate 1 Matrix Result <0.00270	Mat Res <0.00 <0.00 <0.00 result. Rec. 105	rix ult)270)320)340 104 Rec. Limit 70 - 130	Analyzed I Prepared B Rec. 86 88 90 91 91 RPD 0 20	By: LO y: LO Rec. Limit 70 - 130 70 - 130 70 - 130 RPD Limit 20
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is based of Param Benzene Foluene	piked Sampl on the spike r R	e: 109168 MS Result 0.858 0.878 0.902 2.74 esult. RPD is MSD Result Ui 1.05 mg 1.07 mg	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg s based on the s nits Dil. 7Kg I 7Kg I	: 2006-11- : 2006-11- Dil. 1 1 1 1 : pike and spik Spike Amount 0.00 0.00	15 Spike Amount 1.00 1.00 3.00 te duplicate r Matrix Result <0.00270 <0.00320	Mat Res <0.00 <0.00 <0.00 <0.00 result. Rec. 105 107	rix ult)270)320)340 104 Rec. Limit 70 - 130 70 - 130	Analyzed I Prepared B Rec. 86 88 90 91 91 82 80 91 91 82 90 91 91 82 82 90 91 91 91 91 91 91 91 91 91 91 91 91 91	By: LO By: LO Rec. Limit 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 20 Limi 20 20
Matrix Spike (MS-1) S QC Batch: 32057 Prep Batch: 27930 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is based of Param Benzene Foluene Benzene Foluene Chylbenzene	piked Sampl on the spike r	e: 109168 MS Result 0.858 0.878 0.902 2.74 esult. RPD is MSD Result Ui 1.05 mg 1.07 mg 1.10 mg	Date Analyzed QC Preparation Units mg/Kg mg/Kg mg/Kg mg/Kg s based on the s nits Dil. y/Kg I y/Kg I	: 2006-11- : 2006-11- Dil. I I I spike and spike Amount 0.00 0.00 0.00 0.00	15 15 Spike Amount 1.00 1.00 1.00 3.00 te duplicate r Matrix Result <0.00270 <0.00320 <0.00340	Mat Res <0.00 <0.00 <0.00 <0.0 result. Rec. 105 107 110	rix ult)270)320)340 104 Rec. Limit 70 - 130 70 - 130 70 - 130	Analyzed I Prepared B Rec. 86 88 90 91 91 0 20 0 20 0 20 0 20 0 20 0 20	By: LO Sy: LO Rec. Limit 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 20 20 20 20 20

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁵High surrogate recovery due to peak interference.

⁶High surrogate recovery due to peak interference.

Report Date: November 21 Plains006SPL	, 2006	and the second state and the second state of the second state of the second state of the second state of the se	Wo Vac	rk Order: 6111 cuum Gatherin	and the second	P	Page Number: 24 of 28 Lea County, NM		
		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)		0.891	0.905	mg/Kg	Ī	ſ	89	90	70 - 13
4-Bromofluorobenzene (4-I	3FB)	1.01	0.956	mg/Kg	1	1	101	96	70 - 130
Matrix Spike (MS-1) S _I	oiked Sample	: 109168							
OC Batch: 32058		1	Date Analyza	ed∙ 2006-11-	20			Analyzed	By: LO
Prep Batch: 27930		(QC Preparati	on: 2006-11-	15			Prepared I	By: LO
					0.1		r		n
Daram		MS	Unite	Dil	Spike	t D	acult	Dec	Kec.
GRO		7.50	mo/Ko	<u>ال</u> T	10.0	<u>n K</u>	0.829	72	70 - 130
Percent recovery is based or	n the spike re	sult. RPD is	based on the	e spike and spi	ke duplica	te result.			
	1	MSD		Spike	Matrix	ĸ	Rec.		RPE
Param	R	lesult U	Inits Dil	. Amount	Resul	t Rec.	Limit	RPD	Limi
GRO		7.36 m	g/Kg l	10.0	< 0.82	9 71	70 - 13	0 2	20
Percent recovery is based or	1 the spike re	sult. RPD is MS	based on the MSD	e spike and spi	ke duplicat	te result. Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
rifluorotoluene (TFT)	dadada di sina di sana seren	1.08	1.14	mg/Kg	1	1	108	114	70 - 13
-Bromofluorobenzene (4-B	SFB)	1.19	1.19	mg/Kg	1	1	119	119	70 - 13
Standard (ICV-1)									
)C Batch: 31996		D	ate Analyzed	1: 2006-11-1	7			Analyzed E	By: WR
		ICV	/s	ICVs	ICVs		Percent		
		Tru	ie	Found	Percent	t	Recovery		Date
'aram Flag	Units	Cor	ic.	Conc.	Recover	y	Limits		Analyzed
JKU	mg/Kg	25	0	267	107		85 - 115	20	06-11-1
tandard (CCV-1)									
C Batch: 31996		D	ate Analyzec	i: 2006-11-17	7			Analyzed E	y: WR
		ccv	Vs	CCVs	CCVs		Percent		D :
orom Elas	[Inite	Tru	e	round	Percent		Kecovery		Date
	malka	2011 751	ונ. ז	286	117	<u>y</u>		<u>۲</u> ۲۲	Maryzed
tandard (CCV-2)			<u> </u>					<u></u>	

Report Da Plains006	ate: November 2	1, 2006		Work Order: 61 Vaccuum Gather	11629 ring 6"	Page	Page Number: 25 of 28 Lea County, NM		
			CCVs	CCVs	CCVs	Percent			
			True	Found	Percent	Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
DRO		mg/Kg	250	217	87	85 - 115	2006-11-17		
- Maria - Andrew Andrew		an faith the statements the Australia and	, τη Στις τη αποτολογιστική του βαστολογιατική που βαστολογιατική που βαστολογιατική που βαστολογιατική που βασ Το προφοριατική που βαστολογιατική που βαστολογιατική που βαστολογιατική που βαστολογιατική που βαστολογιατική π	anan i san mana mana ana ar a san ana ka	nado remolmante en en en entre antenimiente de entre en entre en entre en entre en entre en entre en entre entr	an an an ann an Canadan San Marina an Constant an	anna allana. I sanana salar arak kata 🤉 ara t		
Standard	(CCV-3)								
QC Batch:	31996		Date Anal	lyzed: 2006-11	-17	Ana	alyzed By: WR		
			CCVs	CCVs	CCVs	Percent	_		
D		** *.	True	Found	Percent	Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
DRO	and annual . Marting a state to associate .	mg/Kg	250	284	114	85 - 115	2006-11-17		
Standard	(ICV-1)								
QC Batch:	32057		Date Ana	lyzed: 2006-11	-15	An	alyzed By: LO		
			ICVs	ICVs	ICVs	Percent			
			True	Found	Percent	Recovery	Date		
Param	Flag	g Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene		mg/Kg	0.100	0.0976	98	85 - 115	2006-11-15		
Toluene		mg/Kg	0.100	0.0968	97	85 - 115	2006-11-15		
Ethylbenze	ene	mg/Kg	0.100	0.0972	97	85 - 115	2006-11-15		
Xylene		mg/Kg	0.300	0.294	98	85 - 115	2006-11-15		
Standard ((CCV-1)								
QC Batch:	32057		Date Anal	lyzed: 2006-11	-15	Ana	alyzed By: LO		
			CCVs	CCVs	CCVs	Percent			
			True	Found	Percent	Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene		mg/Kg	0.100	0.0944	94	85 - 115	2006-11-15		
Toluene		mg/Kg	0.100	0.0943	94	85 - 115	2006-11-15		
Ethylbenze	ne	mg/Kg	0.100	0.0940	94	85 - 115	2006-11-15		
Xylene		mg/Kg	0.300	0.283	94	85 - 115	2006-11-15		
Standard (ICV-1)								
QC Batch:	32058		Date Anal	yzed: 2006-11	-20	Ana	lyzed By: LO		
			ICVs	ICVs	ICVs	Percent			
			True	Found	Percent	Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
GRO		mg/Kg	1.00	1.10	110	85 - 115	2006-11-20		
Stondard ()	CCV 1)					an na an a			
C Batah	32058		Data Arral	uzadi 3004 11	20	Å	luned Buy I.O.		
C Datchi	52050		Date Anal	yzeu: 2000-11-	-20	Ana	нуzed by: LO		

Report Date: November 21, 2006 Plains006SPL			Work Order: 6111629 Vaccuum Gathering 6"			Page Number: 26 of 28 Lea County, NM		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
GRO		mg/Kg	1.00	0.978	98	85 - 115	2006-11-20	





Attachment 4



Llano-Permian Environmental

Client: Plains All American Location: Vacuum Gathering 25 Miles West of Hobbs Lea County, NM

Photographic Documentation

Prepared by:Joshua BattenPhotographer:Kyle SummersProject Number:PLAINS006SPL

Photograph No. 1



Direction: Northwest

Description: Bentonite at former soil boring BH-6

Photograph No. 2

Direction: East -Northeast

Description: Drill rig setting up adjacent to excavation.



Llano-Permian Environmental

Client: Plains All American Location: Vacuum Gathering 25 Miles West of Hobbs Lea County, NM

Photograph No. 3

Photographic Documentation

Prepared by:Joshua BattenPhotographer:Kyle SummersProject Number:PLAINS006SPL



Direction: Northwest

Description: Stake at former soil boring SB-12.

Photograph No. 4

Direction: East -Northeast

Description: View looking east down fence line.



Llano-Permian Environmental

Client: Plains All American Location: Vacuum Gathering 25 Miles West of Hobbs Lea County, NM

Photograph No. 5

Photographic Documentation

Prepared by: Photographer:

Joshua Batten Kyle Summers Project Number: PLAINS006SPL



Direction: East

Description: View of repaired pipeline. Base of former stockpile is visible on right of photo.

Photograph No. 6

Direction: East -Northeast

Description: View of former stockpile.



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: 3112 W. US Hwy 82, Lovington, NM 88260	Facility Tyr	Telephone No. 505-441-0965							
Surface Owner Kenny Smith Mineral Owne	r	Lease No.							
LOCATION OF RELEASE									
Unit Letter Section Township Range Feet from the Nor	th/South Line	/South Line Feet from the East/West Line		Line	County				
M 20 (85) 34E		1	l	<u> </u>					
Lagitude_32° 43' 56,56" Longitude 103° 35' 26.52"									
NATUR NATUR	E OF REL	EASE							
Type of Release Crade Oil	Volume of	Volume of Release 50 barrels Volume Recovered							
Source of Release 6" Steel Pipeline	12/15/200	Date and Hour of Occurrence 12/15/2000 Date and Hour of Discovery 12/15/2000 Date and Hour of Discovery							
Was Immediate Notice Given?	If YES, To	Whom?		10/200					
Yes 🛛 No 🗌 Not Required	Donna Wi	lliams							
By Whom? Wayne Brunette	Date and H	Iour 12/15/2000 1	4:35		19° 🔊				
Was a Watercourse Reached?	If YES, Vo	olume Impacting t	the Waterco	urse.	S. A. S.				
					and all all				
If a Watercourse was Impacted, Describe Fully.*					S LE HOUD				
Describe Cause of Problem and Remedial Action Taken.* Pipeline wa	s clamped to mi	tigate the release	during initia	al respon	use activities.				
					7.5%1-16.56mm-do-do-do-				
Describe Area Affected and Cleanup Action Taken.*	Plains acquira	d FOTT/I ink on	April 1 20)04 and	Plains assumes this				
information to be correct.									
I handly contify that the information given above is two and complete t	the best of my	1							
regulations all operators are required to report and/or file certain release	e notifications a	nd perform correct	tive actions	for rele	ases which may endanger				
public health or the environment. The acceptance of a C-141 report by	the NMOCD m	arked as "Final R	eport" does	not relie	eve the operator of liability				
should their operations have failed to adequately investigate and remed or the environment. In addition NMOCD accentance of a C_{-141} report	iate contaminati	on that pose a three the operator of	eat to groun	d water,	surface water, human health				
federal, state, or local laws and/or regulations.									
		OIL CONSERVATION DIVISION							
signature: Camille KELMOLLA									
	Approved by District Supervisor:								
Printed Name: Camille Reynolds		1		3K	physore				
Title: Remediation Coordinator	Approval Dat	te: 4.5.07	Expi	iration D	Date: 6.5.07				
	C I'								
E-man Address: circyholds@paaip.com		Approval:			Attached				
Date: 8/29/2006 Phone: 505-441-0965	Fiverk	EPOLOT JUBM	ITAL						
Attach Additional Sheets If Necessary									
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