

# SOILS CLOSURE REPORT LIVINGSTON RIDGE STATION LEA COUNTY, NEW MEXICO SRS #2005-00204

(IRP-7572

Prepared for:

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August 7, 2006

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# **Soils Closure Report**

Plains Marketing, L.P. Houston, Texas

Talon/LPE PROJECT NO. PLAINS025SIT

Prepared by:

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August 2006

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#### 1.0 INTRODUCTION AND OBJECTIVES

#### 1.1 Objectives and Site Background

HMR&V Services Inc. responded to a crude oil tank release for Plains Marketing, L.P. located at the Livingston Ridge Station tank # 113038 on March 2, 2006. The float malfunctioned on the tank resulting in an overflow. The float was fixed and the excavation of impacted soil was initiated. The excavated soil was placed on a 6-ml poly-liner adjacent to the excavation.

This site is located in Unit D, Section 6, Township 21 South, and Range 32 East, in Lea County, New Mexico. Topographical site location map is attached as figure 1. The site is located at latitude 32° 25' 36.5" North and longitude 103° 43' 21.2" West. The site is characterized by a crude oil station in an undulating sand dune pasture. The visible surface stained area includes the release point covering an area approximately 1575 square feet. Approximately 10 barrels of crude was released from the Plains tank and 5 barrels was recovered.

Plains personnel placed an emergency one call on March 2, 2006 and all responding companies cleared or marked their respective lines.

Mrs. Pat Caperton, New Mexico Oil Conservation Division (NMOCD) New Mexico District 1, was verbally notified of the release on March 3, 2006. A C-141 form, dated March 3, 2006 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico office (see Appendix E, NMOCD C-141).

#### 1.2 Previous Environmental Investigations

No previous investigations have been performed.

#### 1.3 Regulatory Framework

A search of the New Mexico State Engineers database revealed no groundwater depth information for section (six) 6. No listings were available for the immediate area. There are no surface water bodies or water wells within 1000 feet of the release site. The site has an NMOCD Ranking Score of 0-9, which sets the remediation levels at:

Benzene:

10 ppm

BTEX:

50 ppm

TPH:

5000 ppm

#### 2.0 SITE INVESTIGATION ACTIVITIES

The following sections present a summary of the investigation activities conducted at the Livingston Ridge Station site. The focus of the investigation was the removal of the hydrocarbon impacted soil above NMOCD standards, hauling under NMOCD C-138 guidelines to the Plains Pipeline land farm and backfilling with recycled soils obtained from Lea Station land farm.

#### 2.1 Soil Investigation Activities

On March 2, 2006 HMR&V was contacted by Plains personnel and responded to contain a crude oil spill from a tank overflow. After containing the release, excavation of the release point and flow path was initiated with the excavated soil being placed on a 6-ml poly-liner to be hauled off at a future date. The excavated area is approximately 64 feet long by 41 feet wide by 2 to 3 feet (bgs) (see Figure 2, site map).

On March 10, 2006, confirmation samples were collected from the excavated area. The samples were field screened with a PID, (see Figure 3, soil sampling locations). All selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons-gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the conformation soil samples indicated that the walls and the floor of the excavated area were below NMOCD regulatory standards for BTEX and TPH concentrations (see Appendix B, Table 1, soil chemistry table).

#### 2.2 Soil Hauling and Backfill Activities

On June 21, 2006, Talon/LPE was contacted by Plains to haul off the soil from this site and haul in backfill material to backfill the excavated area. The impacted soil was approved to be moved to the Plains Lea Station Land Farm (#GW-351) and recycled backfill material brought into Livingston Ridge Station from Lea Station land farm. This was approved by Mr. Ed Martin of the NMOCD office in Santa Fe New Mexico (see Appendix F). Approximately 252 yards of soil was taken from Livingston Ridge Station and moved to Lea Station Land Farm and approximately 204 yards of soil was brought into Livingston Ridge Station from Lea Station Land Farm. This process was completed on June 27, 2006 and no further remediation action is needed at this site. Copies of the C-138 forms are included in Appendix F.

#### 3.0 INVESTIGATION RESULTS

The results of the laboratory analysis are summarized in Appendix B, Table 1. Laboratory analytical data sheets and chain of custody documentation are provided as Appendix B to this report.

#### 3.1 Hydrocarbon Impacts Observed in the Soil Samples

The release point and flow path areas were excavated within an area sixty four (64) feet long by forty one (41) feet wide and depths ranging from two (2) feet bgs to three (3) feet bgs. Hydrocarbon impacted soils were not visible in the floor or the sidewalls of the excavation. Confirmation soil samples were collected from the excavation on March 10, 2006. The soil samples were field screened with a PID and analyzed for concentrations of BTEX using EPA Method 8021B and TPH using EPA method 8015M (Table 1). Laboratory datasheets and chain-of-custody forms are attached (appendix B).

Analytical results from the March 10, 2006 soil sampling event indicated that the concentrations of BTEX and TPH were below NMOCD regulatory limits for the bottom and the sidewalls of the excavation.

#### 3.2 Soil Excavation Results

Two hundred and fifty two (252) cubic yards of impacted soil were excavated and stockpiled on-site resulting from the emergency response and remediation activities. Based upon the results of the remedial activities conducted, and with the approval from NMOCD, the impacted soils were transported to the Plains Lea Station Landfarm (LSLF). A permit (NMOCD C-138) was obtained for the transporting of the impacted soils to LSLF. The backfill material was obtained from the LSLF, and tested and authorized by the NMOCD for reuse. The excavation was backfilled and contoured to the original rangeland grade surrounding the tank battery.

## 4.0 CONCLUSIONS

The following section presents recommendations for future actions at the site at the Livingston Ridge Station Tank #113038 site.

#### 4.1 Recommendations

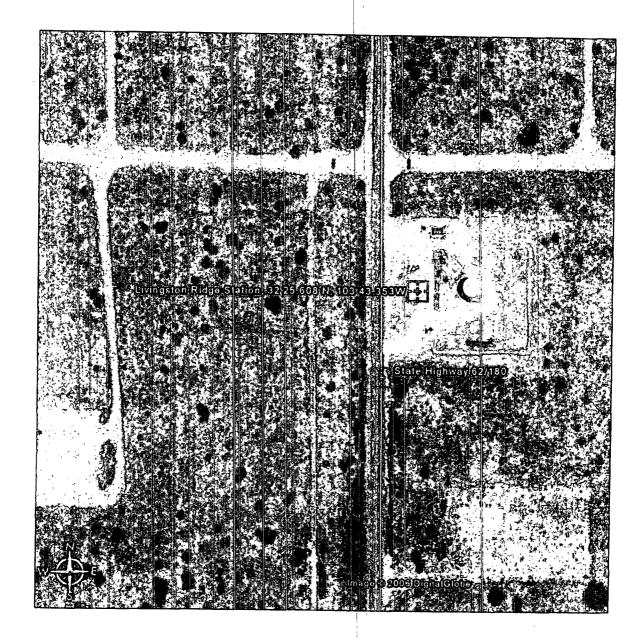
Based upon the findings of this investigation, Talon/LPE makes no further recommendations for future actions. This report will be the final action in regards to the soil investigation and remediation at the site and Plains requests that this report be the final document and action in regards to soil activities at this site.

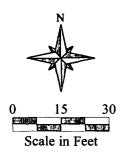
# Appendix A Drawings

Figure 1 – Site Location Map Figure 2 – Site Layout Map Figure 3 – Soil Sampling Figure 4 – Digital Photos

# Figure 1

Site Location Map





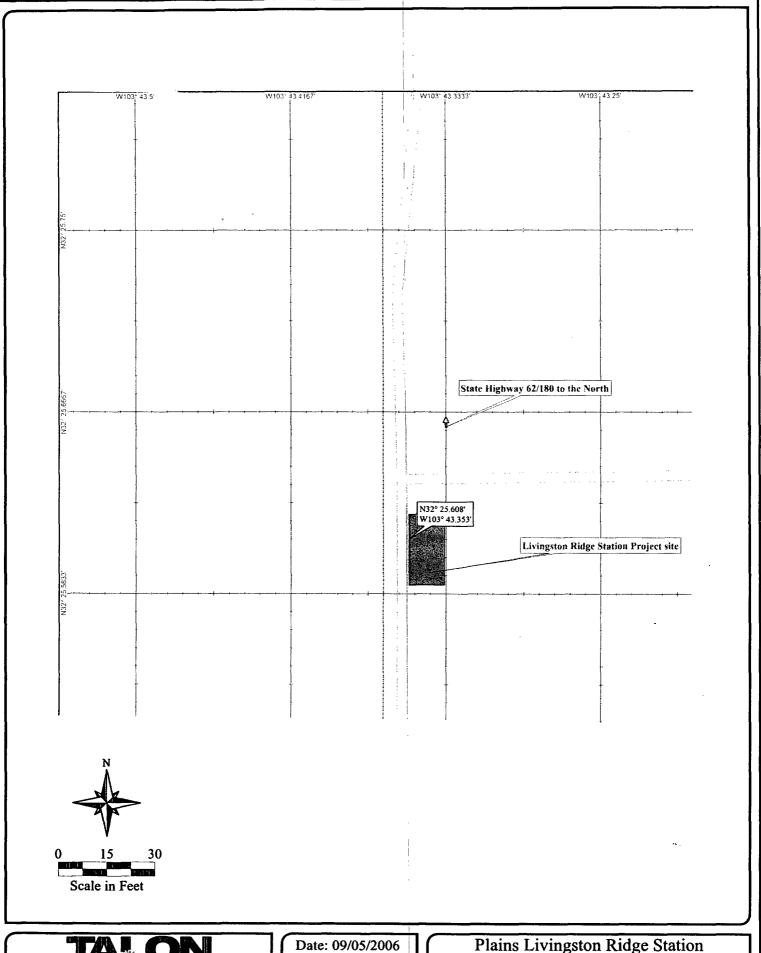


Date: 09/05/2006

Scale: 1" = 30'

Drawn By: TJS

Plains Livingston Ridge Station HWY 62/180 Hobbs, New Mexico Site Location Map



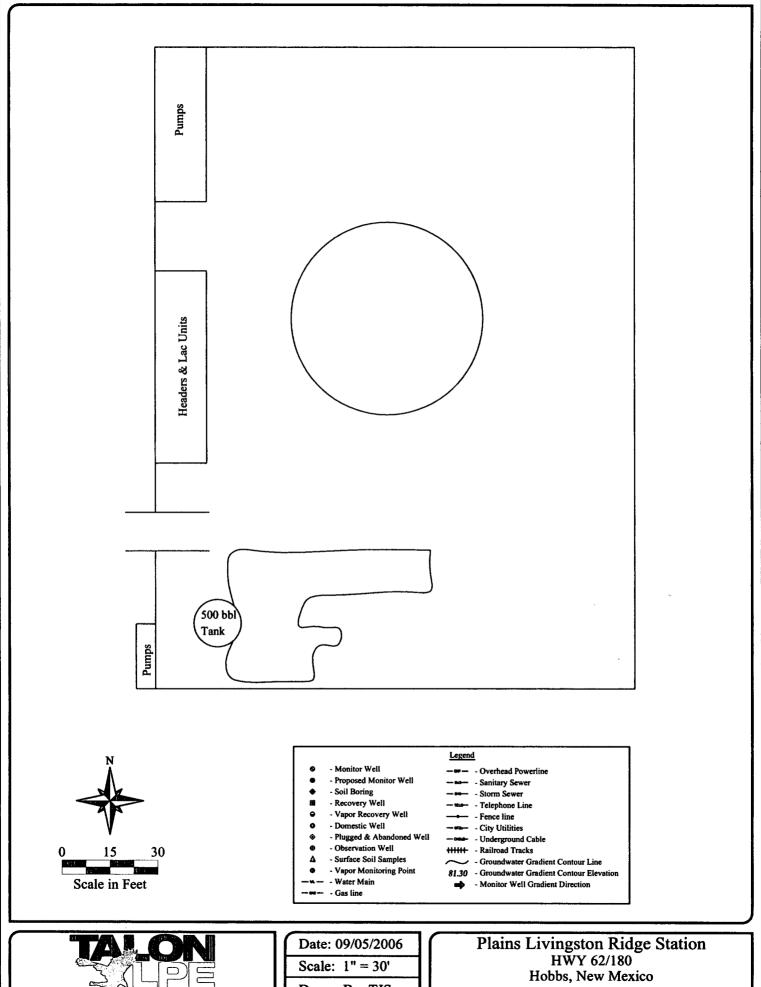
Scale: 1" = 30'

Drawn By: TJS

Plains Livingston Ridge Station HWY 62/180 Hobbs, New Mexico Site Location Map

# Figure 2

Site Layout Map

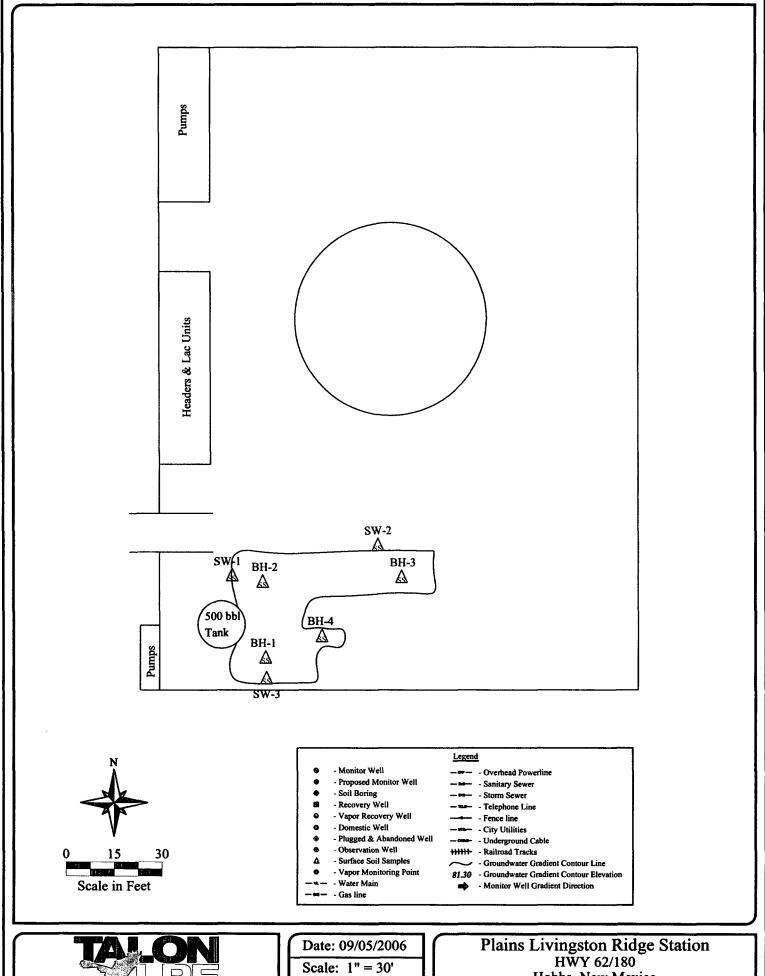




Drawn By: TJS

Site Plan

Figure 3
Soil Sampling





Drawn By: TJS

Hobbs, New Mexico Site Plan

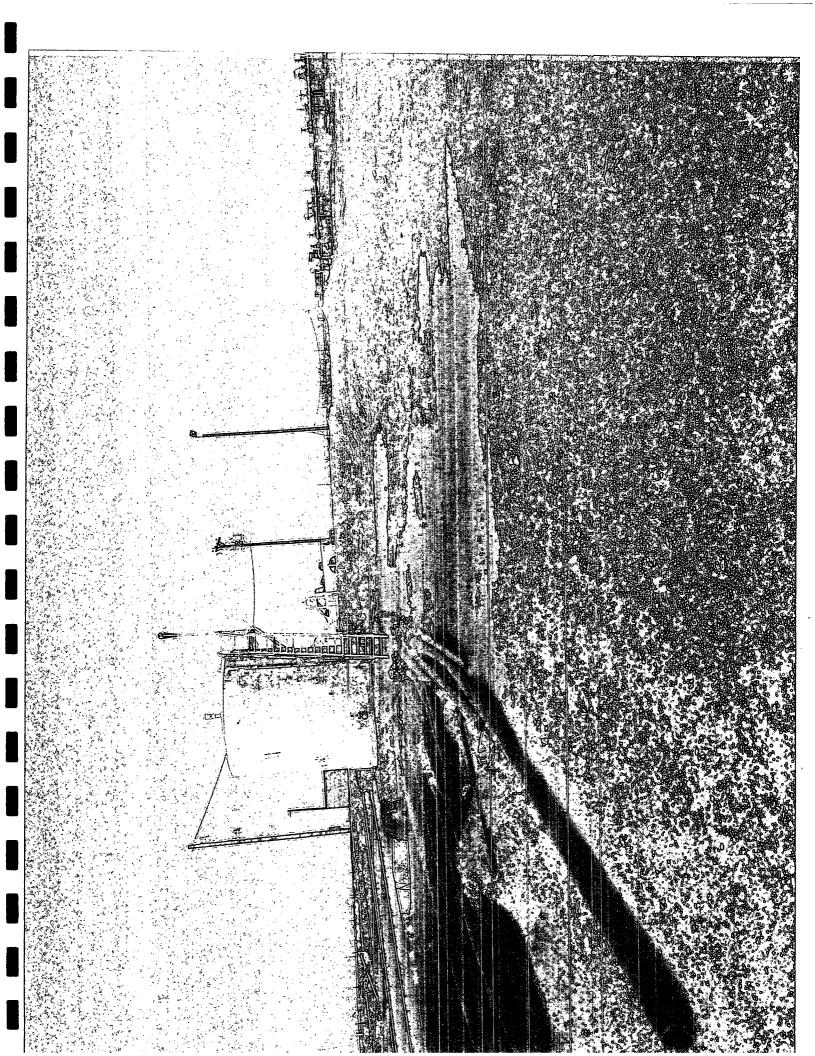
# Figure 4

Digital Photos

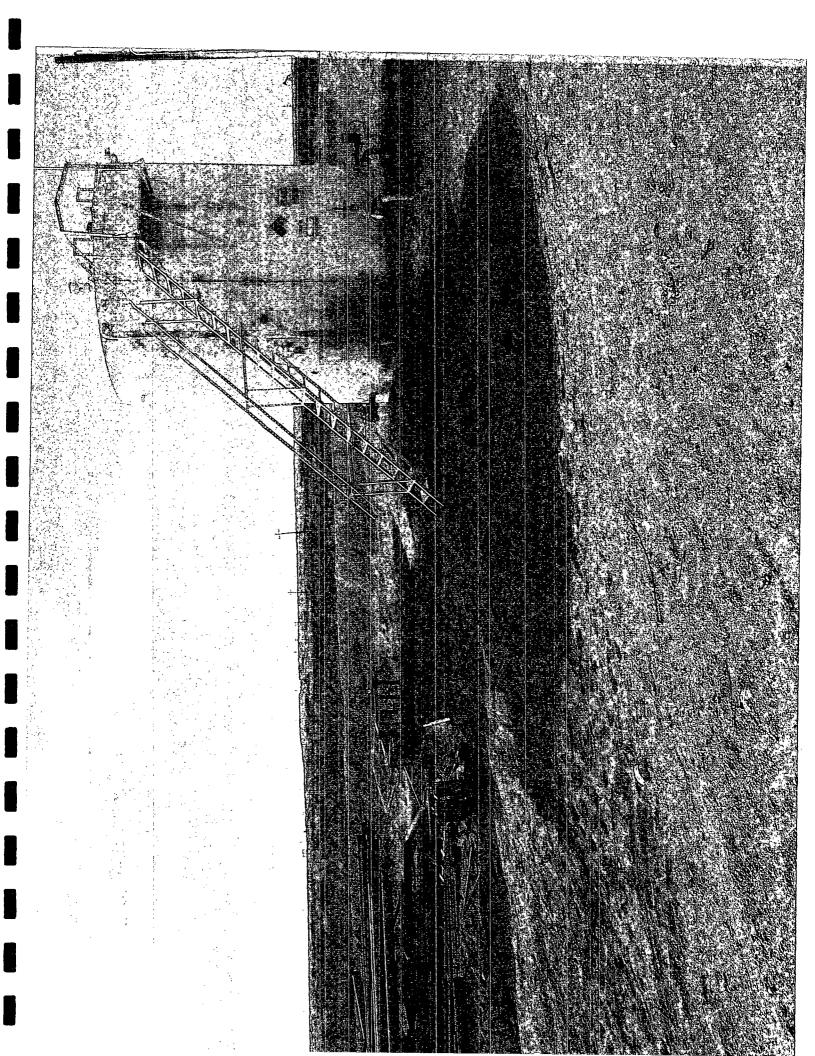
View looking south at initial release area



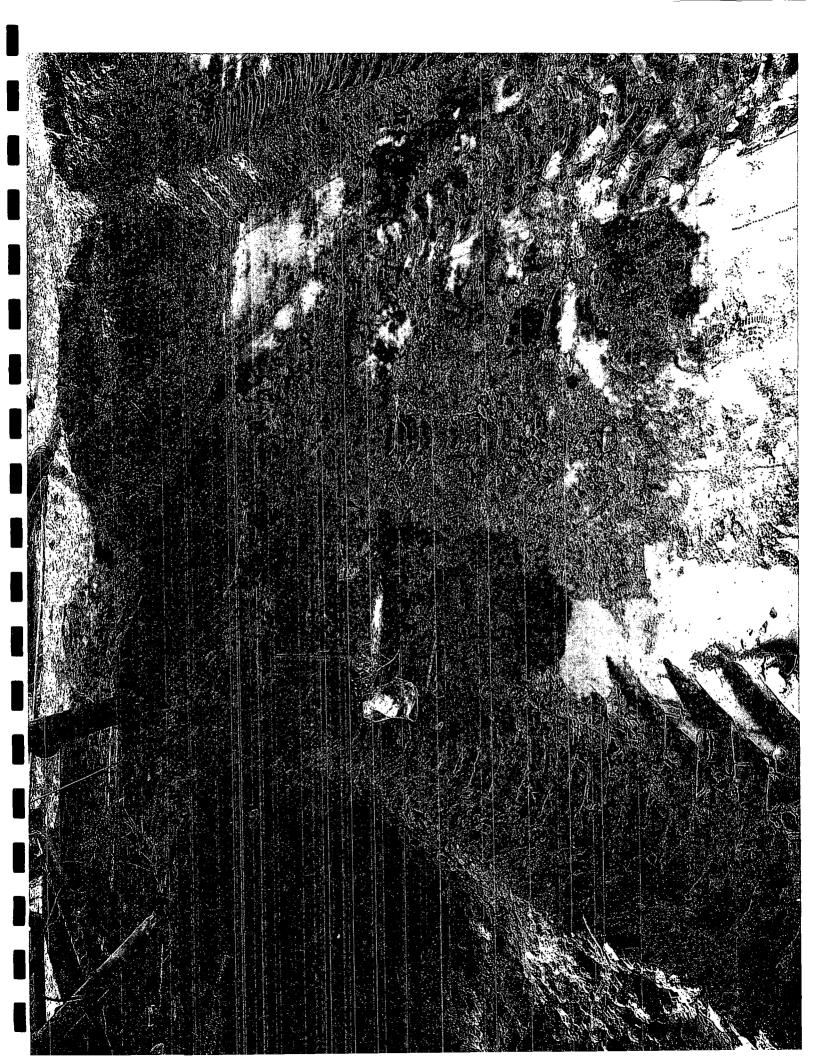
View looking southwest at initial release.



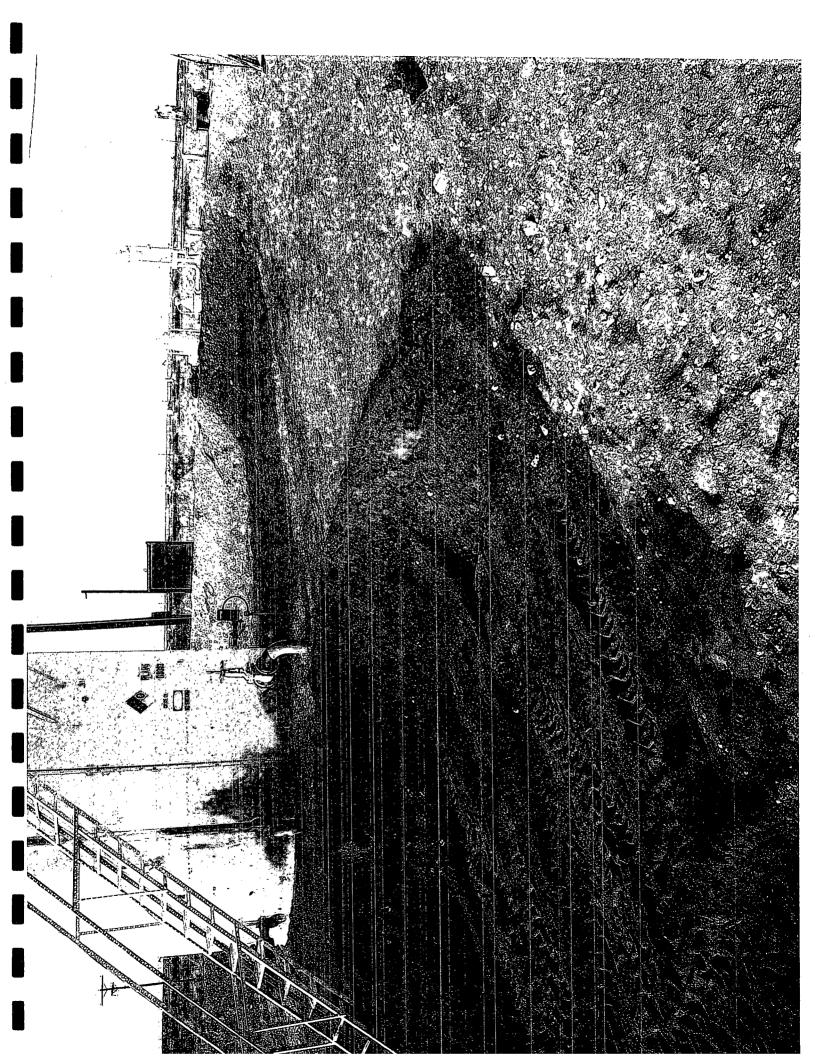
View looking south at initial release area.



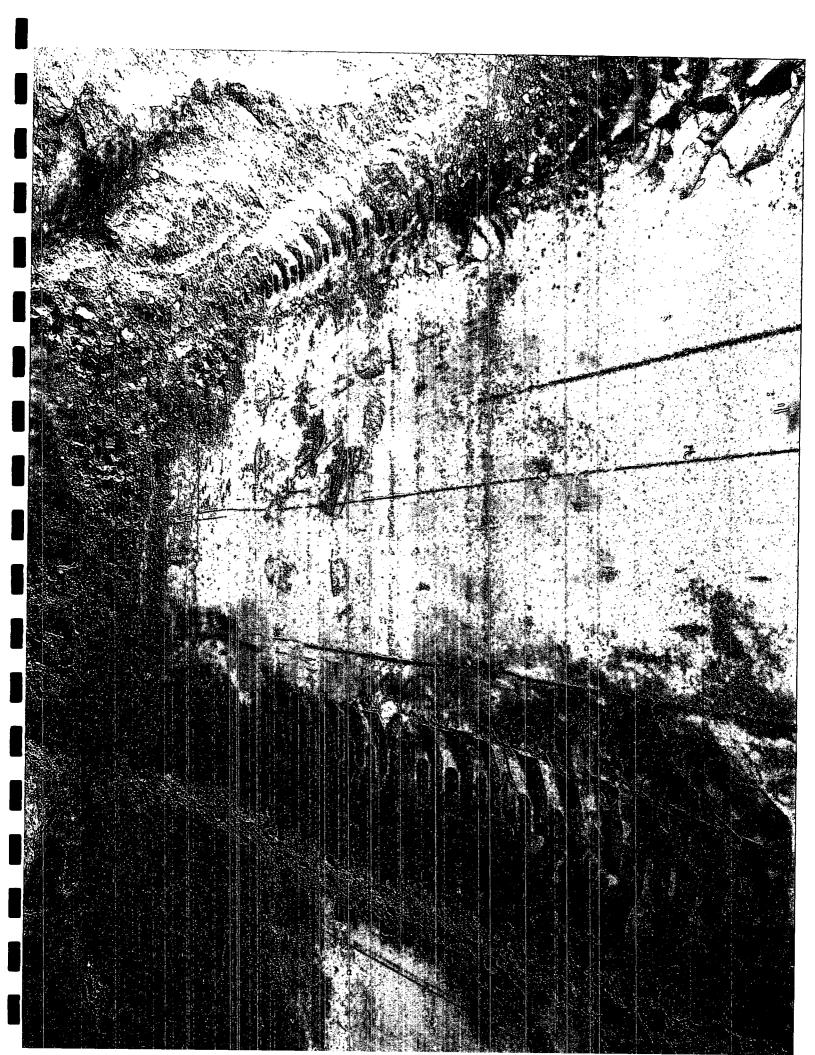
View looking east toward BH-3 location.



View looking southwest at tank.



View of bottom and excavation.



View looking south at excavated area.



# APPENDIX B

# Tables

Table 1 - Soil Chemistry

# TABLE 1

# SOIL CHEMISTRY

# PLAINS MARKETING, L.P. 8" LOOP LINE ON LEA TO HENDRICK LEA COUNTY, NEW MEXICO EMS: 2005-00204

TOTAL	IPH	(mg/kg)		130	23.4	601	229	<10	266	<10	10200		2000	
Method: 8015	DRO		(mg/kg)	17.7	ND	56.3	30.0	<10	39.2	<10	683			
Methoc	GRO	5	(mg/kg)	62.611	23.4	245	8.861	<10	234.31	<10	9520			
	O- XYLENE		(mg/kg)	<0.0250	<0.0250	0.612	0.215	<0.0250	<0.0250	<0.0250	3.26			
21B, 5030	P/M- XYLENES		(mg/kg)	<0.0250	<0.0250	1.37	0.413	<0.0250	<0.0250	<0.0250	6.47		TEX 50	
Method: EPA SW 846-8021B, 5030	ETHYL- BENZENE		(mg/kg)	<0.0250	<0.0250	0.393	0.153	<0.0250	<0.0250	<0.0250	2.13		TOTAL BTEX 50	
Method: EP	TOLUENE		(mg/kg)	<0.0250	<0.0250	0.263	0.136	<0.0250	<0.0250	<0.0250	3.01			
	BENZENE		(mg/kg)	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	0.342		10	
SAMPLE	DATE			3/10/2006	3/10/2006	3/10/2006	3/10/2006	3/10/2006	3/10/2006	3/10/2006	3/10/2006			
SAMPLE SAMPLE	DEPTH (Below	normal surface	grade)	3,	3	3	3	9	9	9	9	-		
SAMPLE	LOCATION			BH 1	BH 2	BH3	BH 4	SW 1	SW 2	SW3	SP I		NMOCD	

BH – Bottom Hole SW – Side Wall

SP - Stock Pile

bgs - below ground surface

# **APPENDIX C**

# Laboratory Analytical Data Sheets and Chain of Custody Documentation



# **Analytical Report**

## **Prepared for:**

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

Project: Livingston Ridge
Project Number: 2006-086
Location: Lea County

Lab Order Number: 6C10007

Report Date: 03/17/06

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476 Project: Livingston Ridge Project Number: 2006-086

Project Number: 2000-086

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 1	6C10007-01	Soil	03/10/06 08:40	03/10/06 12:15
BH 2	6C10007-02	Soil	03/10/06 08:42	03/10/06 12:15
BH 3	6C10007-03	Soil	03/10/06 08:45	03/10/06 12:15
BH 4	6C10007-04	Soil	03/10/06 08:47	03/10/06 12:15
SW I	6C10007-05	Soil	03/10/06 08:30	03/10/06 12:15
SW 2	6C10007-06	Soil	03/10/06 08:32	03/10/06 12:15
SW 3	6C10007-07	Soil	03/10/06 08:36	03/10/06 12:15
SP 1	6C10007-08	Soil	03/10/06 08:50	03/10/06 12:15

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 03/17/06 10:29

## Organics by GC Environmental Lab of Texas

Analysa	Result	Reporting Limit	Units	Date of the	Davit	D	A	Mach - 4	<b>N</b> T
Analyte	Resuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH 1 (6C10007-01) Soil			· · · <u></u>				<del></del>		
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	ND	0.0250	"	n	"	**	H	#	
Ethylbenzene	ND	0.0250	**	"	n	"	,,	*	
Xylene (p/m)	ND	0.0250	**	n	11	11	**	"	
Xylene (o)	ND	0.0250					**	**	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-1	120	n	"	"	"	
Carbon Ranges C6-C12	J [7.89]	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	112	10.0	11	"	"	11	r	11	
Carbon Ranges C28-C35	17.7	10.0	n	"	"		n	"	
Total Hydrocarbon C6-C35	130	10.0	**	n	n	11	P	11	
Surrogate: 1-Chlorooctane		112 %	70-	130	,,	n	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-	130	"	*	*	"	
BH 2 (6C10007-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	ND	0.0250	**	н	*	H	11	•	
Ethylbenzene	ND	0.0250	**	**	*		,,	н	
Xylene (p/m)	ND	0.0250		"	,,	"	II.	**	
Xylene (o)	ND	0.0250	"	"	,,	**	17	"	
Surrogate: a,a,a-Trìfluorotoluene		92.8 %	80-	120	»	n	*	n	
Surrogate: 4-Bromofluorobenzene		90.8 %	80	120	*	n	n	,,	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	23.4	10.0	**	**	"	"	,,	n	
Carbon Ranges C28-C35	ND	10.0	"	"	**	**	и	Ħ	
Total Hydrocarbon C6-C35	23.4	10.0	ч	Ħ	n		**	**	
Surrogate: 1-Chlorooctane		111 %	70-	130	"	"	"	n	
Surrogate: 1-Chlorooctadecane		110 %	70-	130	"	n	"	,,	
BH 3 (6C10007-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	0.263	0.0250		"	n		n	п	
Ethylbenzene	0.393	0.0250	ii .	n	"	11	"	"	
Xylene (p/m)	1.37	0.0250		"	"		#	#	
Xylene (o)	0.612	0.0250	"	"	"	**	**	**	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-	120	"	"	"	v	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-	120	"	n	"	*	
Carbon Ranges C6-C12	100	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	

Environmental Lab of Texas

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

Project: Livingston Ridge Project Number: 2006-086 Project Manager: Camille Reynolds Fax: (432) 687-4914 Reported:

03/17/06 10:29

### Organics by GC **Environmental Lab of Texas**

	n	Reporting	Y1-5						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 (6C10007-03) Soil							<del></del>		
Carbon Ranges C12-C28	445	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C28-C35	56.3	10.0	11		#	"	•	tt	
Total Hydrocarbon C6-C35	601	10.0	"		*	"	н	D.	
Surrogate: 1-Chlorooctane		117%	70-	130	"	n	,	"	
Surrogate: 1-Chlorooctadecane		116%	70-	130	"	n	n	H	
BH 4 (6C10007-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	0.136	0.0250	IF	*	11		n		
Ethylbenzene	0.153	0.0250	**	n	**	n	"		
Xylene (p/m)	0.413	0.0250	**	11	u	"	"	n	
Xylene (o)	0.215	0.0250	н	n	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ħ			
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-	120	"	*	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-	120	0	n	"	n	
Carbon Ranges C6-C12	17.8	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	181	10.0	n	**	•	11	**	"	
Carbon Ranges C28-C35	30.0	10.0	**	**	"	11	*	н	
Total Hydrocarbon C6-C35	229	10.0	11	17	11	"	It	н	
Surrogate: 1-Chlorooctane		110 %	70-	130	,,	"	,,	"	
Surrogate: 1-Chlorooctadecane		111%	70-	130	n	"	,,	Ħ	
SW 1 (6C10007-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	ND	0.0250	N	"	,,	*	"	**	
Ethylbenzene	ND	0.0250	"	**	**		*	"	
Xylene (p/m)	ND	0.0250		11	11	н	Ħ	μ	
Xylene (o)	ND	0.0250	*	u	11	*	"	*	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-	120	,,	и	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-	120	,,	n	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	n	**	**	**	W	n	
Carbon Ranges C28-C35	ND	10.0	п	**	#	н	n	н	
Total Hydrocarbon C6-C35	ND	10.0	n	**	н	n	"	**	
Surrogate: 1-Chlorooctane		111 %	70-	130	"	,,	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-	130	"	"	n	**	

Project: Livingston Ridge
Project Number: 2006-086

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 03/17/06 10:29

# Organics by GC Environmental Lab of Texas

Environmental Lab of Texas											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
SW 2 (6C10007-06) Soil											
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B			
Toluene	ND	0.0250	u	**	17	Ħ	*	"			
Ethylbenzene	ND	0.0250	**	u		"	*	"			
Xylene (p/m)	ND	0.0250	ır	11	٠,	"	"	n			
Xylene (o)	ND	0.0250	u	"	"	"	п	"			
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-1	20	n	,	"	n			
Surrogate: 4-Bromofluorobenzene		80.0 %	80-1	20	n	77	"	H			
Carbon Ranges C6-C12	J [7.31]	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	J		
Carbon Ranges C12-C28	227	10.0	17	**	n		**	u			
Carbon Ranges C28-C35	39.2	10.0	u	ıı	n	"	n	u			
Total Hydrocarbon C6-C35	266	10.0	н	н	**	"	"	b			
Surrogate: 1-Chlorooctane		111 %	70-	130	"	"	"	"			
Surrogate: 1-Chlorooctadecane		118 %	7 <b>0</b> -2	130	"	•	"	n			
SW 3 (6C10007-07) Soil											
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B			
Toluene	ND	0.0250	**	*	"	"	•	"			
Ethylbenzene	ND	0.0250	,,	n	"	"	•	•			
Xylene (p/m)	ND	0.0250	"	11	**	**	n	"			
Xylene (o)	ND	0.0250	**	**	"	**	*				
Surrogate: a,a,a-Trifluorotoluene		90.2 %	80-	120	"	rr .	"	n			
Surrogate: 4-Bromofluorobenzene		89.0 %	80	120	*	n	•	n			
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M			
Carbon Ranges C12-C28	ND	10.0	n	"	"	н	n	п			
Carbon Ranges C28-C35	ND	10.0	**	"	n	**	n	**			
Total Hydrocarbon C6-C35	ND	10.0	н		n	n	11	**			
Surrogate: 1-Chlorooctane		110 %	70-	130	"	"	"	"			
Surrogate: 1-Chlorooctadecane		109 %	70-	130	Ħ	n	"	H			
SP 1 (6C10007-08) Soil											
Benzene	0.342	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B			
Toluene	3.01	0.0250	n	"	n	**	**	n			
Ethylbenzene	2.13	0.0250	**	**	n	"	11	"			
Xylene (p/m)	6.47	0.0250	"	•	u	n	n	*			
Xylene (o)	3.26	0.0250	"	**	n	n	**	*			
Surrogate: a,a,a-Trifluorotoluene		140 %	80-	120	17	n	11	"	S-0-		
Surrogate: 4-Bromofluorobenzene		93.5 %	80-	120	,	"	•	n			
Carbon Ranges C6-C12	960	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M			

Environmental Lab of Texas

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Project: Livingston Ridge
Project Number: 2006-086

Project Number: 2000-000

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 1 (6C10007-08) Soil			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Carbon Ranges C12-C28	8560	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C28-C35	683	10.0	**	*	n	n	ท	"	
Total Hydrocarbon C6-C35	10200	10.0	**	"	ш	R	u		
Surrogate: 1-Chlorooctane		110%	70-1	30	"	"	'n	"	
Surrogate: 1-Chlorooctadecane		107%	70-1	30	"	"	"	H	

Project: Livingston Ridge
Project Number: 2006-086

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

# General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6C10007-01) Soil									
% Moisture	12.1	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 2 (6C10007-02) Soil									
% Moisture	15.0	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 3 (6C10007-03) Soil									
% Moisture	23.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 4 (6C10007-04) Soil									
% Moisture	9.4	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 1 (6C10007-05) Soil									
% Moisture	6.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 2 (6C10007-06) Soil		**-							
% Moisture	3.5	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 3 (6C10007-07) Soil									
% Moisture	12.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SP 1 (6C10007-08) Soil									
% Moisture	0.9	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	

Project: Livingston Ridge
Project Number: 2006-086

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

## Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61304 - EPA 5030C (GC)										
Blank (EC61304-BLK1)				Prepared: (	03/13/06 A	nalyzed: 03	/14/06			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	#							
Xylene (o)	ND	0.0250	**							
Surrogate: a,a,a-Trifluorotoluene	42.1		ug/kg	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	38.1		n	40.0		95.2	80-120			
LCS (EC61304-BS1)				Prepared: (	03/13/06 A	nalyzed: 03	/14/06			
Benzene	1.08	0.0250	mg/kg wet	1.25		86.4	80-120			
Toluene	1.18	0.0250	"	1.25		94.4	80-120			
Ethylbenzene	1.34	0.0250	u	1.25		107	80-120			
Xylene (p/m)	2.79	0.0250	**	2.50		112	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/kg	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.5		"	40.0		91.2	80-120			
Calibration Check (EC61304-CCV1)				Prepared: 0	03/13/06 A	nalyzed: 03	/14/06			
Benzene	42.8		ug/kg	50.0		85.6	80-120			
Toluene	49.5		**	50.0		99.0	80-120			
Ethylbenzene	57.6		"	50.0		115	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.3			50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		"	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		n	40.0		109	80-120			
Matrix Spike (EC61304-MS1)	Sou	rce: 6C13012	2-01	Prepared:	03/13/06 A	nalyzed: 03	/14/06			
Benzene	1.09	0.0250	mg/kg dry	1.25	ND	87.2	80-120			
Toluene	1.22	0.0250	"	1.25	ND	97.6	80-120			
Ethylbenzene	1.36	0.0250	17	1.25	ND	109	80-120			
Xylene (p/m)	2.82	0.0250	"	2.51	ND	112	80-120			
Xylene (o)	1.35	0.0250	•	1.25	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/kg	40.0		101	80-120			·
Surrogate: 4-Bromofluorobenzene	32.3		"	40.0		80.8	80-120			

Project: Livingston Ridge

Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

## Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61304 - EPA 5030C (GC)										
Matrix Spike Dup (EC61304-MSD1)	Sou	rce: 6C13012	2-01	Prepared: (	Prepared: 03/13/06 Analyzed: 03/14/06					
Benzene	1.00	0.0250	mg/kg dry	1.25	ND	80.08	80-120	8.61	20	
Γoluene	1.11	0.0250	н	1.25	ND	88.8	80-120	9.44	20	
Ethylbenzene	1.28	0.0250	n	1.25	ND	102	80-120	6.64	20	
Xylene (p/m)	2.66	0.0250	n	2.51	ND	106	80-120	5.50	20	
Xylene (o)	1.32	0.0250	"	1.25	ND	106	80-120	1.87	20	
Surrogate: a,a,a-Trifluorotoluene	38.0		ug/kg	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.9		"	40.0		94.8	80-120			
Batch EC61510 - Solvent Extraction (GC)										
Blank (EC61510-BLK1)				Dropored f	k Analyzed:	03/15/06		<u></u> .		
Carbon Ranges C6-C12	ND	10.0	mg/kg wet	ricpateu o	Allalyzeu.	-03/13/00				
Carbon Ranges C12-C28	ND	10.0	mg/kg wei							
Carbon Ranges C28-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	u							
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0	.,	106	70-130			
Surrogate: 1-Chlorooctadecane	52.3		mg/ng "	50.0		105	70-130			
						02/15/06				
LCS (EC61510-BS1)					k Analyzed:					
Carbon Ranges C6-C12	518	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	482	10.0		500		96.4	75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	49.9		"	50.0		99.8	70-130			
Calibration Check (EC61510-CCV1)				Prepared:	03/15/06 A	nalyzed: 03	3/16/06			
Carbon Ranges C6-C12	236		mg/kg	250		94.4	80-120		<del></del>	
Carbon Ranges C12-C28	278		**	250		111	80-120			
Total Hydrocarbon C6-C35	514		n	500		103	80-120			
Surrogate: 1-Chlorooctane	51.6		,,	50.0		103	70-130			,

54.0

Surrogate: 1-Chlorooctadecane

108

70-130

50.0

Project: Livingston Ridge

Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 03/17/06 10:29

### Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61510 - Solvent Extraction (GC)										
Matrix Spike (EC61510-MS1)	Sou	rce: 6C10007	<b>7-</b> 01	Prepared &	Analyzed:	03/15/06				
Carbon Ranges C6-C12	601	10.0	mg/kg dry	569	7.89	104	75-125			
Carbon Ranges C12-C28	678	10.0	**	569	112	99.5	75-125			
Carbon Ranges C28-C35	10.9	10.0		0.00	17.7		75-125			
Total Hydrocarbon C6-C35	1280	10.0	n	1140	130	101	75-125			
Surrogate: 1-Chlorooctane	63.7		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	57.0		"	50.0		114	70-130			

Surrogate: 1-Chlorooctadecane	57.0		"	50.0		114	70-130			
Matrix Spike Dup (EC61510-MSD1)	Source: 6C10007-01			Prepared & Analyzed: 03/15/06						
Carbon Ranges C6-C12	602	10.0	mg/kg dry	569	7.89	104	75-125	0.166	20	
Carbon Ranges C12-C28	680	10.0		569	112	99.8	75-125	0.295	20	
Carbon Ranges C28-C35	11.6	0.01	**	0.00	17.7		75-125	6.22	20	
Total Hydrocarbon C6-C35	1280	10.0	**	1140	130	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	57.3		"	50.0		115	70-130			

Project: Livingston Ridge

Project Number: 2006-086

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 03/17/06 10:29

### General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit U	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61307 - General Preparation	(Prep)									
Blank (EC61307-BLK1)				Prepared: 0	3/10/06 Ai	nalyzed: 03	/13/06			
% Solids	100		%							
Duplicate (EC61307-DUP1)	Sourc	e: 6C09018-01		Prepared: 0	3/10/06 A	nalyzed: 03	/13/06			
% Solids	86.3		%		86.1			0.232	20	
Duplicate (EC61307-DUP2)	Sourc	e: 6C10007-06		Prepared: 0	3/10/06 A	nalyzed: 03	/13/06			
% Solids	95.8		%		96,5			0.728	20	

Plains All American EH & SProject:Livingston RidgeFax: (432) 687-49141301 S. County Road 1150Project Number:2006-086Reported:Midland TX, 79706-4476Project Manager:Camille Reynolds03/17/06 10:29

#### **Notes and Definitions**

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04 Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). J DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference Laboratory Control Spike LCS MS Matrix Spike

	Raland KJul		
Report Approved By:	Karan C 140	Date:	3/17/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Duplicate

Dup

Camille Reynolds Project Name: Living STON BISSE CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST COUNTY Project #: 20.4 06 - 2001 2006 - 086 M.A.O.I Analyze For BTEX 8021B 2030 OF BTEX 8260 Project Loc: しどら Wetsie: As Ag Ba Cd Ct Pb Hg Se TCLP SAR / ESP / CEC PO #: Jujous (Cl. SO4, CO3, HCO3) stions (Ca, Mg, Na, K) 7-51-E THE PH 461 8015M) 1006 1006 Oluer (specify): क्ष्म् वरमुख्य -ad 50 € (10S e6pmg Cate Other (Specify) 9HOM Preservative '05<sup>2</sup>H HOEN нсі Camille Reynolds HMO3 No. of Containers Fax No: Plains P/L 8.40 8:42 8:47 3.30 9.36 8: 45 8.32 8:50 Time Sampled 70-01-6 Received by. 110-06 かつ-0水 3-10-06 40-01-7-10-06 70-01 Date Sampled COLOGE OS Environmental Lab of Texas Phone: 432-563-1800 Fax: 432-563-1713 770 - 3825 E E 90-01 Date Date FIELD CODE City/State/Zip: 477. City/State/Zip: Company Name Hm Rote Project Manager: MARK P H BH 3 C H S Company Address: Talephone No: Sampler Signature: 12600 West I-20 East Odessa, Texas 79765 Special Instructions: Refinquished by:

TAT brebnat2 X

oluberio&-er9) TAT H2U9

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

Client: HMR&V				
Date/Time: 3/10/010 12:15		•		
Order #: 60007				
Initials:				
Sample Receipt	t Checkli	st		
Temperature of container/cooler?	Yes	No	30 CI	
Shipping container/cooler in good condition?	des	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	(Z=3)	No		
Sample Instructions complete on Chain of Custody?	ACES	No		
Chain of Custody signed when relinquished and received?	<b>(25)</b>	No		
Chain of custody agrees with sample label(s)	Yes	No	Donne	
Container labels legible and intact?	Yes	No	na	
Sample Matrix and properties same as on chain of custody?	Xes	No		
Samples in proper container/bottle?	l <del>(es</del>	No	<del>                                     </del>	
Samples properly preserved?	YES	No		
Sample bottles intact?	l @s	l No		
Preservations documented on Chain of Custody?	16	No		
Containers documented on Chain of Custody?	(Pes	No		
Sufficient sample amount for indicated test?	Yes	No	<del>                                     </del>	
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	(res	No	Not Applicable	
Other observations:				
Variance Doce Contact Person:			_ Contacted by:	
Corrective Action Taken:				

## APPENDIX D

New Mexico Office of the State Engineer Water Well Database Report

# New Mexico Office of the State Engineer POD Reports and Downloads

					***************************************				***************************************
To	wnship: 21S	Range: 32E	Sections: 6	) 			·		
NAD2	27 X:	Y:	Zone:	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Searc	h Radius			
County: LE		Basin:	22.72.3	Numbe	r:	<b>S</b>	uffix:		
Owner Name: (F	irst)	(Last)	-		Non-E	omestic	Dome	estic .	All
POD / Surf	ace Data Rep	oort Ave	g Depth to Wa	ter Report		Wat	er Column	Report	
		Clear Form	iWATERS	Menu	Help				
		WATER	COLUMN REI	PORT 03/	28/20	06			photocologicalism
POD Number	(quarters	are 1=NW 2=NE are biggest to Rng Sec q q q	smallest)	x	Y	Depth Well	Depth Water	Water Column	(in
No Records found	d, try aga:	in							

No Records found, try again

# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 21S Range: 32E	Sections: 6
NAD27 X: Y:	Zone: Search Radius:
County: LE Basin:	Number: Suffix:
Owner Name: (First) (Last)	Non-Domestic Domestic All
POD / Surface Data Report Avg D	Depth to Water Report Water Column Report
Clear Form	iWATERS Menu Help
POD / S	SURFACE DATA REPORT 03/28/2006 (quarters
(acre ft per annum) DB File Nbr Use Diversion Owner	(quarters POD Number Source

## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 21S Range	e: 32E Sections: 6				
NAD27 X: Y:	Zone: Search Radius:				
County: LE Basin:	Number: Suffix:				
Owner Name: (First)	(Last) Non-Domestic Domestic	All			
POD / Surface Data Report	Avg Depth to Water Report Water Column Report				
Clear F	Form iWATERS Menu Help				

AVERAGE DEPTH OF WATER REPORT 03/28/2006

(Depth Water in Feet)
Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

No Records found, try again

# APPENDIX F NMOCD C-138

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenuc, 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** Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus I Copy to Appropriate District Office

REQUEST FOR APP	ROVAL TO	ACCEPT SOL	ID WASTE	:
		4. Generator	<u> </u>	
1. RCRA Exempt: Non-Exempt: 🛛		Plains Marketing		
1. RCRA Exempt.		5. Originating Site		
Verbal Approval Received: Yes 🛛	No 🗆	Livingston Ridge St 086	ation Tank 11303	B re#2506-
2. Management Facility Destination:		6. Transporter	**	
Plains All American Lea Station Land Furm #G	W-351	<u> </u>	1	
3. Address of Facility Operator: Environmenta		8. State New Mexico		
7. Location of Material (Street Address or UL	STR) UL-D, N	NW% of the NW% of S	ection 6 T21S R32	E
9. Circle One:		•		* > 3
A. All requests for approval to accept oilfiel	d exempt wastes	will be accompanied by	a certification of w	raste from
the Generator, one certificate per job  B. All requests for approval to accept non-e	voromé supotoo mosse	t he accommonied has no	anda versea	makanista
PROVE the material is not-hazardous and the				
listing or testing will be approved.		manuscra or origin. 110	THE PERSON OF THE	tan tarvery try
	s must certify the	wastes delivered are on	ly those consigned	for transport
Crude Oil Contaminated Soil				
	A A	by the operator at the er		cy
SIGNATURE COULL KG CON	Q/OTITLE:	Invironmental Coordinate	ntor DATE:	5/16/200
TYPE OR PRINT NAME: Camille Reynolds	TELEPH	ONE NO.	505-441-0965	0 : 0 : 1 :
		· · · · · · · · · · · · · · · · · · ·		
				*
(This space for State Use)				
APPROVED BY: TOK O	TTTLE:	Earles Exce	DATE: 5.16	-06
APPROVED BY: Mar	TITLE: _	ENVIRO. ENGR.	DATE: 5-/8-	-06

TITLE: ENVIRO. ENGR. DATE: 5-18-06

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

APPROVED BY:

# State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR A	PPROVAL TO	ACCEPT SOLID	WASTE
		4. Generator	34
<ol> <li>RCRA Exempt:  Non-Exempt</li> </ol>	$\boxtimes$	Plains Marketing 5. Originating Site	
Verbal Approval Received: Yes	⊠ No □	Livingston Ridge Station 086	Tank 113038 ref#2006-
<ol><li>Management Facility Destination: Plains All American Lea Station Land Far</li></ol>	6. Transporter		
3. Address of Facility Operator: Environ	8. State New Mexico		
<ol> <li>Location of Material (Street Address of Street One:</li> </ol>	r ULSTR)   UL-D, N	iW14 of the NW14 of Section	a 6 T21S R32E
	and the Generator's cert orters must certify the		classified hazardous by
RIEF DESCRIPTION OF MATE	CIAL:		
rude Oil Contaminated Soil			
	•		
	) : :		7 m
stimated Volume 300 cy Known	Volume (to be entered	by the operator at the end of t	the haul)cy
SIGNATURE GOODLE PG Waste Management Facility Authorize	MOLOTITLE: I	Environmental Coordinator	DATE: 5/16/2
TYPE OR PRINT NAME: Camille Rev	nolds TELEPH	ONE NO5	505_4481_0065
			<u> </u>
		,	
(This space for State Use)			4 A
/ 1/3			The second secon

TITLE:

# APPENDIX E NMOCD C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

\* Attach Additional Sheets If Necessary

## 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 acce dance with Rule 116 c 1 back side (f form

1220 S. St. F18	ncis Dr., Sain	arc, 19191 6750.				e, NM 875							
			Rele	ease Notific	catio	n and Co	orrective A	ction					
						OPERATOR			x Initial Report 🔲 Fina			Final	Repo
Name of C	ompany Pl	ains Marketi	ng, LP	-		Contact Car	nille Reynolds						
Address 31	12 West U	S Hwy <b>8</b> 2, I	ovington	, NM 88260			No. 505-441-09			_			
Facility Na	me Living	ston Ridge S	tation Ta	nk 113038		Facility Typ	e Crude Oil Sta	tion					
Surface Ov	vner Plains		<u></u> -	Mineral (	Owner			L	ease N	Vo.			
				1.4.00		N OF DE	LEACE		_				
Unit Letter	Section	Township	Range	Feet from the		N OF RE	Feet from the	East/West	line	County			
	6	218	32E	reet Holli aic	Nois	ny Soudi Line	1 cet nom are	Last Wat		Lea			
D	<u> </u>	L	<u> </u>					<u> </u>		<u> </u>			
		Latitud	le 32° 25	36.5"		Longitude	103° 43' 21.2	37					
					ruri	E OF REL	_						
Type of Rele	ease Crude o	oil					Release 10 barre	ls Vol	ume R	ecovered	5 barre	s	
Source of Re	elease Tank	overflow				L	lour of Occurrence	1		Hour of Di		, ,,, -	
Was Immedi	iate Notice (	Given?		***************************************	· · · · ·	1f YES, To	5 @ 015:50	03/0	01/200	6 @ 16:00			
Was minicus	iate riotice (		Yes [	No Not R	equired					, 1, ,		٠.	
By Whom?	Camille Rev	molds				Date and H	Iour 03/02/2006	@ 11:00			2.5		
Was a Water		ched?					olume Impacting		rse.	60°		<del>•</del>	
			Yes 🛭	No		i			100	<b>)</b> ~	<b>Z4</b> 1	C.	N.
If a Waterco	urse was Im	pacted, Descri	ibe Fully.	,		<u></u> t			18	;	1		•
									2526272g	Roo		:	
								:	153	140	~ (		
									<b>∖</b> ∡.	$\mathcal{C}_i$	(O)		: :
inside firewa	use of Proble	em and Remed	Jial Action	Taken.* Float r	nalfunc	ction in tank re	sulted in overflov	v of tank. Cru	ide dil	erflower	1 tank-i	mpacti	r 3 soil
		į.								150	7	EN'	
Describe Are	a Affected a	and Cleanup A	Action Tak	en.* The impac	ted soi	l was excavate	d and stockniled	on plactic A	erial e	vtent of ou	face in	moot w	<del>,</del>
approximatel	ly 1,575 ft².			viii III III III III		· was excurate	d and stookphed	on plastic. A	CI IGI Ç.	AUGIL OI SUI	Tack III	ipaci w	<i>(</i> )
l hereby certi	ify that the in	nformation giv	ven above	is true and comp	lete to t	the best of my	knowledge and u	nderstand tha	t pursi	ant to NM	OCD n	iles and	<u> </u>
public health	or the envir	onment. The	accentanc	d/or file certain re e of a C-141 repo	etease r	iouncations an ie NMOCD ma	id periorm correc arked as "Final Re	tive actions to eport" does no	or rele ot relie	ases which	may en	idanger	
should their c	operations ha	ave failed to a	dequately	investigate and re	emediai	te contaminatio	on that pose a thre	at to ground	water.	surface wa	iter hiji	man he	a th
federal state	nment. In ac or local law	ddition, NMO vs and/or regul	CD accept	tance of a C-141	report d	ioes not relieve	the operator of r	esponsibility	for co	mpliance v	/ith any	other	
<u> </u>	) ioniocal iaw	rs and/or regu	Tations.		-	<del></del>	OII CONS	EDWATT	ONLI	DIVICIO	NT -		
					OIL CONSERVATION DIVISION								
Signatuke:	anic	<u>uu j</u>	Ech	101077									
Printed Name: Camille Reynolds					Approved by District Supervisor:								
Title: Remedi	anon Coord	inator				Approval Date: Expiration Date:							
E-mail Addre	ss: cjreynol	ds@paalp.con	Ω		}	Conditions of Approval:			<del></del>				
					•			Attached [					
Date: 03/03/2006 Phone:505-441-0965													