

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

November 15, 2005

Mr. Pat Ellis EllisP@pogoproducing.com Pogo Producing Company 300 N. Marienfield Midland, TX 79701-7340

Re:

East Livingston Ridge Closure Report

Site Location: UL-D, Sec 18 - T22S - R32E

Report Dated: November 3, 2005

Dear Mr. Ellis,

The New Mexico Oil Conservation Division (OCD) reviewed the above referenced report Submitted by your agent, Highlander Environmental Corp. (HEC). Based on information provided, the site requires no further action.

Please be advised that OCD approval does not relieve Pogo Producing Company of responsibility should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Pogo Producing Company of responsibility for compliance with any federal, state or local laws and/or regulations. If you have any questions or need assistance please call me at (505) 393-6161, x111 or e-mail larry.Johnson@state.nm.us

Sincerely.

Larry Johnson - Environmental Engineer

1RP.227

CC:

Roger Anderson - Environmental Bureau Chief

Chris Williams - District I Supervisor Paul Sheeley- Environmental Engineer

		SIT	E INFORMATION			
General Site Inf	ormation:					
Site:)	East Livingsto	on Ridge Tank Battery #1			
Company:		Pogo Produci	ng Company			
Section, Townsh	nip and Range	Section 18, To	ownship 22S, Range 32E	103 November 23		
Unit Letter:		D				
Lease Number:		NM32411		16 8 8		
County:		Lea		10 00 00		
GPS:		32-23-48.7 N /	103-42-30.0 W	No. of the second secon		
Surface Owner:		BLM				
Mineral Owner:		BLM		· · · · · · · · · · · · · · · · · · ·		
Directions:		From Jal, NM at	the intersection of 18 & 128, take	ke 128 west 35 miles past mile marker		
		18. Take right o	onto red road, travel 8.7 miles, ro	ad will merge with CR 29, travel		
		1.7 mile and tak	e right onto lease road. Travel (0.7 mile on lease road, tank battery		
		will be on right h	nand side of road.			
Release Data:						
Date Released:		6/3/2005				
Type Release:		Produced Wat	er			
Source of Conta	mination:	Produced water	er tank fire			
Fluid Released:		75 bbls.				
Fluids Recovere	ed:	75 bbls.				
Official Commi	unication:					
Name:	Pat Ellis		Don Riggs	lke Tavarez		
Company:	Pogo Produci	ng Company	Pogo Producing Company	Highlander Environmental Corp.		
Address:	300 N. Marier	nfeld St.	5 Greenway Plaza, Suite 2700	1910 N. Big Spring		
P.O. Box	Box 10340					
City:	Midland Texa	s, 79701-7340	Houston, Texas 77046	Midland, Texas		
Phone number:	(432) 685-810	00	(713) 297-5045	(432) 692- 4559		
				1		

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	1 0	
	Soil RRAL (mg/kg)	
Benzene	Total BTEX	TPH
10	50	5,000



Midland, Texas

122.227

November 3, 2005

Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240



RE: Assessment and Closure Report for the Pogo Producing Company, East Livingston Ridge #1 Tank Battery, Unit Letter D, Section 18, T-22-S, R-32-E, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill, which occurred when lightning struck a 500 barrel fiberglass water tank at the Pogo East Livingston Ridge #1 Tank Battery in Lea County, New Mexico (Site). The Site is located in Unit D, Section 18, Township 22 South, Range 32 East. The State of New Mexico C-141 (Initial) is included in Appendix C. The Site is shown in Figure 1.

Groundwater and Regulatory

According to the New Mexico Office of the State Engineer, WATERS database, the closest water wells were found in Sections 14 and 19, T-22-S, R-32-E, with reported average depths to water of 350' and 280' below ground surface (bgs). The State of New Mexico Well Reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Background

This spill occurred on June 3, 2005 when lightning struck a 500 barrel fiberglass water tank.

A total of 75 barrels of produced water were released, with 75 barrels recovered. All of the fluids were contained within the facility firewall. The spill area is shown on Figure 2.

Inspection and Soil Sampling

Highlander personnel inspected and sampled the site on June 9, 2005. A total of five (5) auger holes (AH) were installed inside the facility firewall to delineate subsurface impact. Soil samples were collected using a stainless steel, bucket type hand auger. The auger hole locations are shown on Figure 2. The auger holes were advanced to a depths ranging from 3.5' to 5.5'. Samples were collected for evaluation of Total Petroleum Hydrocarbon (TPH) by method 8015M, BTEX by method 8021B and chloride by method 300.0. The soil sample results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix B.

TPH concentrations exceeded the RRAL only in the sample from AH-5 (0-1.0'). No BTEX concentrations exceeded the RRAL for any of the sample locations. Chloride concentrations were elevated at the surface and declined with depth, with the exception of AH-5.

On September 8, 2005, a drilling rig was utilized in order to better profile the soils beneath AH-5, and to collect discreet soil samples for evaluation of subsurface chloride impact. One borehole was installed, near AH-5. Soil samples were collected at five foot increments to a total depth of 10'-11'. The chloride concentration declined from 3270 mg/kg at 5'-6' to 167 mg/kg at 10'-11'.

Corrective Action

On September 8, 2005, Highlander supervised excavation of approximately 1.0' of impacted soil from inside the facility firewall. The soil in the vicinity of AH-5, which exceeded the TPH RRAL was removed and placed on plastic on the site. One composite confirmation sample was taken and analyzed for TPH. TPH was not detected at or above the reporting limit for the confirmation sample. The soil stockpile was removed and hauled to the Sundance Disposal Facility in Eunice, New Mexico.

Conclusions

Based on the confirmation samples collected from the excavation, TPH concentrations did not exceed the RRAL and no BTEX concentrations exceeded the RRAL for any of the sample locations. Chloride concentrations were elevated at the surface and declined with depth to less than 250 mg/kg within 10' of the surface.

Based on the depth to groundwater, the auger hole and borehole sample results and the remediation performed at this facility, Pogo requests closure of this site. The State of New Mexico C-141 (Final) is included in Appendix C.



If you require any additional information or have any questions or comments concerning the assessment report, please call (432) 682-4559.

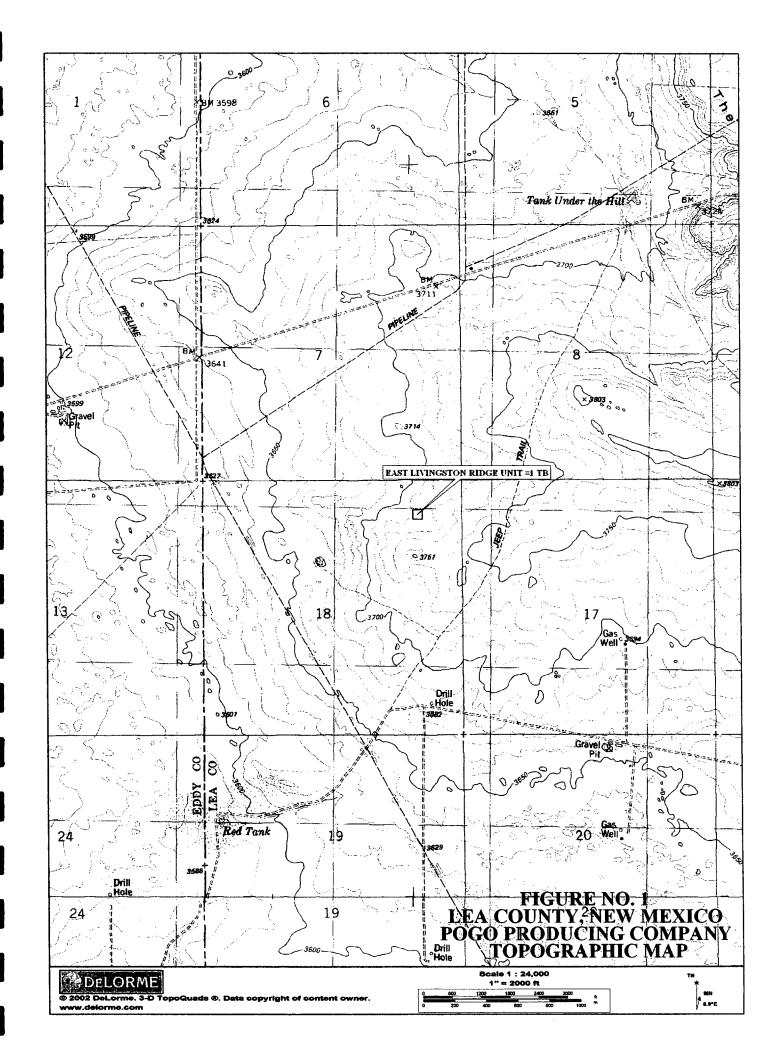
Highlander Environmental Corp.,

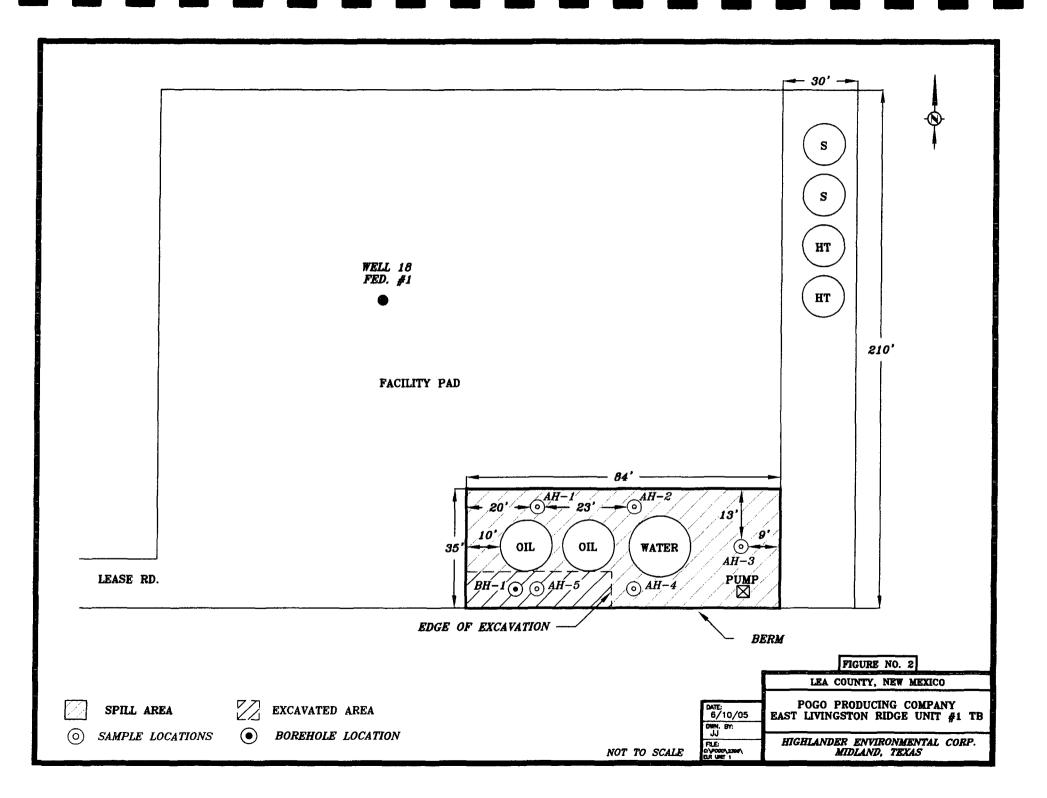
Timothy M. Reed, P.G.

Vice President

cc: Don Riggs - Pogo Producing Co. Pat Ellis - Pogo Producing Co.

FIGURES





TABLE

Table 1
Pogo Producing Company
East Livingtonston Ridge #1 Tank Battery
Lea County, New Mexico

Sample	Date	Sample	A	TPH (mg/kg	and the state of t	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID .	Sampled	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	6/9/2005	(0-1.0')	<10	111	111	<0.025	<0.025	<0.025	<0.025	196
AH-1	6/9/2005	(1.0'-1.5')	<u>-</u>	-	-	-	-		-	56
AH-1	6/9/2005	(2.0'-2.5')	<u>-</u>	-	-	-	-	-	-	37.4
AH-1	6/9/2005	(3.0'-3.5')	-	-	-	-	-	-	-	43.1
AH-2	6/9/2005	(0-1.0')	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	1940
AH-2	6/9/2005	(1.0'-1.5')	-	-	-	-	<u>-</u>	-	-	39.6
AH-2	6/9/2005	(2.0'-2.5')	-	-	-	<u>-</u>	<u>-</u>	<u>-</u>		93.6
AH-2	6/9/2005	(3.0'-3.5')	-	-	-	-	-	-	-	42
AH-3	6/9/2005	(0-1.0')	<10	147	147	< 0.025	<0.025	< 0.025	0.0513	3960
AH-3	6/9/2005	(1.0'-1.5')	-	-	-	-	_	-	-	1320
AH-3	6/9/2005	(2.0'-2.5')	-	-	-	-	-		-	136
AH-3	6/9/2005	(3.0'-3.5')	-	-	-	-	-	<u>-</u>	-	148
AH-4	6/9/2005	(0-1.0')	<10	684	684	< 0.025	<0.025	<0.025	0.0765	2230
AH-4	6/9/2005	(1.0'-1.5')	-		-	-	-	-	-	859
AH-4	6/9/2005	(2.0'-2.5')	-	-	-	-	-	<u>-</u>	-	657
AH-4	6/9/2005	(3.0'-3.5')	-	-	-	-	-	-	-	770
AH-5	6/9/2005	(0-1.0')	734	14,200	15,000	<0.025	<0.025	< 0.025	< 0.025	797
AH-5	6/9/2005	(1.0'-1.5')	<10.0	<10.0	<10.0	_	-		-	1030
AH-5	6/9/2005	(2.0'-2.5')	<10.0	<10.0	<10.0	~	-	-	•	977
AH-5	6/9/2005	(3.0'-3.5')	_	-	-	_	-	-	-	1650
AH-5	6/9/2005	(4.0'-4.5')	-	-	-	•	-	_	-	3800
BH-1	9/8/2005	(5'-6')	-	-	-	-	-	<u>-</u>	-	3270
BH-1	9/8/2005	(10'-11')	-	-		-	-	-	-	167
#1 Composite	9/8/2005		<10.0	<10.0	<10.0	-	-	-	-	-

APPENDIX A

Water Well - Average Depth to Groundwater

	21 So	uth	;	30 Eas	st		21 So	uth	3	1 Eas	it		22 Sc	outh		33 Eas	it
3	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	†
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	+
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	+
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	1
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	+
	 22 So		<u></u>	 31 Ea:			22 So	uth.	<u></u>	32 Eas	<u></u>	<u> </u>	22 S		<u></u>	33 Eas	 :t
6	5	4	[3	2	11	6	5	4	3	2	1	6	5	4	3	2	Ţ
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	+
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	+
	100	448	 	1	-	Site	 	-	ļ	350	1	10-	100	-	ļ	1	4
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	ľ
30	29	28	27	26	25	280_ 30	29	28	27	26	25	30	29	28	27	26	†
31	32 32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	1
	23 So	outh	<u>.l.</u>	 31 Ea	st	L	23 Sc	uth		32 Eas	st	L	 23 S	outh		33 Eas	⊥i st
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	Ī
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	1
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	1
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	
30	29	28	27	26	25	30	29	400 28	27	26	25	30	29	28	27	26	-
	-"		ļ-'		"		-	-"	-			۳			1		١
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	7

150 Average depth to groundwater (ft)
New Mexico Office of State Engineer Well Reports

New Mexico Office of the State Engineer Well Reports and Downloads

Township: 2	2S Range: 32E	Sections:		
NAD27 X:	Y:	Zone:	Search !	Radius:
County:	Basin:	ja Politi Politi	Number:	Suffix:
Owner Name: (First)	(La	ast) • All	○Non-I	Domestic ODomestic
(Well /	Surface Data Report Wat	ter Column Rep		Report

AVERAGE DEPTH OF WATER REPORT 07/08/2005

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
С	22S	32E 14				2	340	360	350
С	225	32E 19				1	280	280	280

Record Count: 3

New Mexico Office of the State Engineer Well Reports and Downloads

	Town	ship: 22S	Range: 31E	Section	s:			
	NAD27	X:	Y:	Zone:	4/6	Search Rad	lius:	
County	:		Basin:		Numl	ber:	Suffix:	
Owner	Name: (F	First)		(Last) • All		○Non-Don	mestic C	Domestic
		Well / S	urface Data Rep	Vater Column		h to Water Rep	port	

AVERAGE DEPTH OF WATER REPORT 07/08/2005

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	x	Y	Wells	Min	Max	Avg
С	22S	31E 16				1	448	448	448
С	22S	31E 20				3	45	48	47
С	22S	31E 28				8	401	450	444
С	22S	31E 29				1	413	413	413

Record Count: 13

New Mexico Office of the State Engineer Well Reports and Downloads

To	wnship: 239	Range:	32E Sect	ions:			
NAD2	27 X:	Y:	Zor	ne:	S S	Search Radius:	
County:	\$1.50 \$1.50	Basin:			Number	: Suff	īx:
Owner Name:	(First)		(Last)	All	C	Non-Domestic	O Domestic
(Well / S	urface Data I	Water Colu	<u>`</u>	rt	Water Report	

AVERAGE DEPTH OF WATER REPORT 07/08/2005

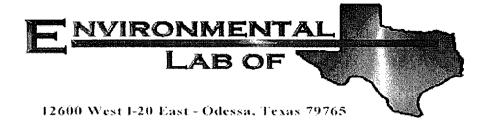
							(Depth	Water in	reet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
С	23S	32E 21				1	400	400	400

Record Count: 1

APPENDIX B

Analytical Report

6/17/05



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Location: Lea County, NM

Lab Order Number: 5F13005

Report Date: 06/17/05

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 06/17/05 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 (0-1.0')	5F13005-01	Soil	06/09/05 00:00	06/10/05 16:20
AH-1 (1.0-1.5')	5F13005-02	Soil	06/09/05 00:00	06/10/05 16:20
AH-1 (2.0-2.5')	5F13005-03	Soil	06/09/05 00:00	06/10/05 16:20
AH-1 (3.0-3.5')	5F13005-04	Soil	06/09/05 00:00	06/10/05 16:20
AH-2 (0-1.0')	5F13005-05	Soil	06/09/05 00:00	06/10/05 16:20
AH-2 (1.0-1.5')	5F13005-06	Soil	06/09/05 00:00	06/10/05 16:20
AH-2 (2.0-2.5')	5F13005-07	Soil	06/09/05 00:00	06/10/05 16:20
AH-2 (3.0-3.5')	5F13005-08	Soil	06/09/05 00:00	06/10/05 16:20
AH-3 (0-1.0')	5F13005-09	Soil	06/09/05 00:00	06/10/05 16:20
AH-3 (1.0-1.5')	5F13005-10	Soil	06/09/05 00:00	06/10/05 16:20
AH-3 (2.0-2.5')	5F13005-11	Soil	06/09/05 00:00	06/10/05 16:20
AH-3 (3.0-3.5')	5F13005-12	Soil	06/09/05 00:00	06/10/05 16:20
AH-4 (0-1.0')	5F13005-15	Soil	06/09/05 00:00	06/10/05 16:20
AH-4 (1.0-1.5')	5F13005-16	Soil	06/09/05 00:00	06/10/05 16:20
AH-4 (2.0-2.5')	5F13005-17	Soil	06/09/05 00:00	06/10/05 16:20
AH-4 (3.0-3.5')	5F13005-18	Soil	06/09/05 00:00	06/10/05 16:20
AH-5 (0-1.0')	5F13005-20	Soil	06/09/05 00:00	06/10/05 16:20
AH-5 (1.0-1.5')	5F13005-21	Soil	06/09/05 00:00	06/10/05 16:20
AH-5 (2.0-2.5')	5F13005-22	Soil	06/09/05 00:00	06/10/05 16:20
AH-5 (3.0-3.5')	5F13005-23	Soil	06/09/05 00:00	06/10/05 16:20

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 06/17/05 10:05

Organics by GC Environmental Lab of Texas

Analysta	D la	Reporting	U-i						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 (0-1.0') (5F13005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF51303	06/13/05	06/13/05	EPA 8021B	
Toluene	ND	0.0250	**		н	n	"	ù	
Ethylbenzene	ND	0.0250	"	•	b.	n .	"	n	
Xylene (p/m)	ND	0.0250	*		*	*	u	н	
Xylene (o)	ND	0.0250		н				11	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	J [8.49]	10.0	mg/kg dry	1	EF51305	06/13/05	06/13/05	EPA 8015M	J
Diesel Range Organics >C12-C35	111	10.0		••		n	"	n	
Total Hydrocarbon C6-C35	111	10.0	п			n	**	41	
Surrogate: 1-Chlorooctane		86.8 %	70-	130	*	"	p	н	
Surrogate: 1-Chlorooctadecane		103 %	70-	130	"	"	"	и	
AH-2 (0-1.0') (5F13005-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF51303	06/13/05	06/13/05	EPA 8021B	
Toluene	ND	0.0250		"		н	,,		
Ethylbenzene	ND	0.0250	11		*	*	n	w	
Xylene (p/m)	ND	0.0250	**	*	"	10	и	н	
Xylene (o)	ND	0.0250		*	"	*		w	
Surrogate: a.a.a-Trifluorotoluene		80.5 %	80-	120	"	n	<i>n</i>	и	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-	120	,,	"	,,	u	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ì	EF51305	06/13/05	06/13/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	••				"	п	
Total Hydrocarbon C6-C35	ND	10.0			**	п	и	"	
Surrogate: 1-Chlorooctane		73.2 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		78.0 %	70-	130	,,	"	"	"	
AH-3 (0-1.0') (5F13005-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF51303	06/13/05	06/13/05	EPA 8021B	
Toluene	ND	0.0250	п			H	ıi	**	
Ethylbenzene	J [0.0160]	0.0250		,,		*		v	
Xylene (p/m)	0.0513	0.0250	n	"			r		
Xylene (o)	J [0.0207]	0.0250		"				**	
Surrogate: a,a,a-Trifluorotoluene	· · · · · · · · · · · · · · · · · · ·	84.8 %	80-	120	,	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-	120	"	"	,,	"	
Gasoline Range Organics C6-C12	J [8.87]	10.0	mg/kg dry	1	EF51305	06/13/05	06/13/05	EPA 8015M	
Diesel Range Organics >C12-C35	147	10.0	**		"		n		
Total Hydrocarbon C6-C35	147	10.0	**		te .	•		**	

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.

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 06/17/05 10:05

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilation	David	D		Markad	Maria
		Link	Office	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 (0-1.0') (5F13005-09) Soil									
Surrogate: 1-Chlorooctane		84.8 %	70-1.	30	EF51305	06 13 05	06:13:05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		107 %	70-1.	30	,,	"	"	n	
AH-4 (0-1.0') (5F13005-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF51303	06/13/05	06/13/05	EPA 8021B	
Toluene	ND	0.0250			"	v	•	· ·	
Ethylbenzene	J [0.0179]	0.0250	*			"		u	j
Xylene (p/m)	0.0511	0.0250	**	69	**	,		n	
Xylene (o)	0.0254	0.0250		м	"	•		n	
Surrogate: a,a,a-Trifluorotoluene		80.6 %	80-1	20	"	"	"	0	
Surrogate: 4-Bromofluorobenzene		96.3 %	80-1	20	"	"	"	n	
Gasoline Range Organics C6-C12	J [9.76]	10.0	mg/kg dry	1	EF51305	06/13/05	06/13/05	EPA 8015M	j
Diesel Range Organics >C12-C35	684	10.0		**	**	н	*1	n.	
Total Hydrocarbon C6-C35	684	10.0			•	*	**	.11	
Surrogate: 1-Chlorooctane		81.8 %	70-1	30	"	11	"	"	
Surrogate: 1-Chlorooctadecane		110%	70-1	30	"	"	"	"	
AH-5 (0-1.0') (5F13005-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF51303	06/13/05	06/13/05	EPA 8021B	
Toluene	ND	0.0250						в	
Ethylbenzene	ND	0.0250	"	**	"	**	*	n	
Xylene (p/m)	ND	0.0250	*			17	**		
Xylene (o)	ND	0.0250	"	**			11	"	
Surrogate: a,a,a-Trifluorotoluene		85.2 %	80-1	20		"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %	80-1	20	"		"	"	
Gasoline Range Organics C6-C12	734	50.0	mg/kg dry	5	EF51305	06/13/05	06/13/05	EPA 8015M	
Diesel Range Organics >C12-C35	14200	50.0			**	*			
Total Hydrocarbon C6-C35	15000	50.0		41		17	11	0	
Surrogate: 1-Chlorooctane		13.6 %	70-1	130	"	"	"	u u	S-00
Surrogate: 1-Chlorooctadecane		19.1 %	70-1	130	,,	"	"	"	S-06

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 06/17/05 10:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Proposed	Analyzed	Mathad	Mate
AH-1 (0-1.0') (5F13005-01) Soil		Ziniii.		Dilution	Batch	Prepared	Analyzed	Method	Note:
Chloride	196	5.00			Estima			EPA 300.0	
% Moisture	11.4	0.1	mg∕ky %	10 1	EF51505 EF51401	06/13/05 06/13/05	06/13/05 06/14/05	% calculation	
70 17101Stu1C	11.4	0,1	70	'	EF31401	00/13/03	00/14/03	yo carearanya	
AH-1 (1.0-1.5') (5F13005-02) Soil									
Chloride	56.0	5.00	mg/kg	10	EF51505	06/13/05	06/13/05	EPA 300.0	
AH-1 (2.0-2.5') (5F13005-03) Soil									
Chloride	37.4	5.00	mg/kg	10	EF51505	06/13/05	06/13/05	EPA 300.0	
AH-1 (3.0-3.5') (5F13005-04) Soil									
Chloride	43,1	5.00	mg/kg	10	EF51505	06/13/05	06/13/05	EPA 300.0	
AH-2 (0-1.0') (5F13005-05) Soil									
Chloride	1940	25.0	mg/kg	50	EF51505	06/13/05	06/13/05	EPA 300.0	
% Moisture	8.8	0.1	%	1	EF51401	06/13/05	06/14/05	% calculation	
AH-2 (1.0-1.5') (5F13005-06) Soil									
Chloride	39.6	5.00	mg/kg	10	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-2 (2.0-2.5') (5F13005-07) Soil			_						
Chloride	93.6	5.00	mg/kg	10	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-2 (3.0-3.5') (5F13005-08) Soil									
Chloride	42.0	5.00	mg/kg	10	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-3 (θ-1.0') (5F13005-09) Soil									
Chloride	3960	50.0	mg/kg	100	EF51506	06/14/05	06/14/05	EPA 300.0	
% Moisture	5.8	0.1	%	i	EF51401	06/13/05	06/14/05	% calculation	
AH-3 (1.0-1.5') (5F13005-10) Soil									
Chloride	1320	25.0	mg/kg	50	EF51506	06/14/05	06/14/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 06/17/05 10:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 (2.0-2.5') (5F13005-11) Soil									
Chloride	136	5.00	mg/kg	10	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-3 (3.0-3.5') (5F13005-12) Soil									
Chloride	148	5.00	mg/kg	10	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-4 (0-1.0') (5F13005-15) Soil									
Chloride	2230	50.0	mg/kg	100	EF51506	06/14/05	06/14/05	EPA 300.0	
% Moisture	9.6	0.1	%	1	EF51401	06/13/05	06/14/05	% calculation	
AH-4 (1.0-1.5') (5F13005-16) Soil									
Chloride	859	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-4 (2.0-2.5') (5F13005-17) Soil									
Chloride	657	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-4 (3.0-3.5') (5F13005-18) Soil									
Chloride	770	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-5 (0-1.0') (5F13005-20) Soil									
Chloride	797	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
% Moisture	10.7	0.1	%	ı	EF51401	06/13/05	06/14/05	% calculation	
AH-5 (1.0-1.5') (5F13005-21) Soil									
Chloride	1030	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-5 (2.0-2.5') (5F13005-22) Soil									
Chloride	977	10.0	mg/kg	20	EF51506	06/14/05	06/14/05	EPA 300.0	
AH-5 (3.0-3.5') (5F13005-23) Soil									
Chloride	1650	25.0	mg/kg	50	EF51506	06/14/05	06/14/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 06/17/05 10:05

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 EF51303 - EPA 5030C (GC)										
Blank (EF51303-BLK1)				Prepared &	: Analyzed:	06/13/05				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Kylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250								
Surrogate: a,a,a-Trifluorotoluene	87.9		ug kg	100		87.9	80-120			
iurrogate: 4-Bromoftuorobenzene	105		"	100		105	80-120			
LCS (EF51303-BS1)				Prepared: (06/13/05 A	nalyzed: 06	5/14/05			
Benzene	103		ug/kg	100		103	80-120		·	
Toluene	95.7		н	100		95.7	80-120			
Ethylbenzene	93.8			100		93.8	80-120			
Kylene (p/m)	208			200		104	80-120			
Kylene (o)	96.3			100		96.3	80-120			
Surrogate: a.a.a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	109		n	100		109	80-120			
Calibration Check (EF51303-CCV1)				Prepared: (06/13/05 A	nalyzed: 0	5/14/05			
Benzene	108		ug/kg	100		108	80-120			
Toluene	97.6			100		97.6	80-120			
Ethylbenzene	85.9			100		85.9	80-120			
Xylene (p/m)	188			200		94.0	80-120			
Xylene (o)	89.0			100		89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		<i>n</i>	100			80-120		***************************************	
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			
Matrix Spike (EF51303-MS1)	Sou	arce: 5F13000	5-13	Prepared:	06/13/05 A	malyzed: 0	6/14/05			
Benzene	2370		ug/kg	2500	18.3	94.1	80-120			
Toluene	2540		**	2500	361	87.2	80-120			
Ethylbenzene	2210		"	2500	206	80.2	80-120			
Xylene (p/m)	5050		**	5000	904	82.9	80-120			
Kylene (0)	2320			2500	311	80.4	80-120			
Surrogate: a.a.a-Trifluorotoluene	111			100		iii	X0-120			
Surrogaie: 4-Bromofluorobenzene	141		,,	100		141	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 06/17/05 10:05

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 EF51303 - EPA 5030C (GC)										
Matrix Spike Dup (EF51303-MSD1)	Sourc	e: 5F13006	-13	Prepared: (06/13/05 A	nalyzed: 06	6/14/05			
Benzene	2440		ug/kg	2500	18.3	96.9	80-120	2.93	20	
Toluene	2560		**	2500	361	88.0	80-120	0.913	20	
Ethylbenzene	2270		**	2500	206	82.6	80-120	2.95	20	
Xylene (p/m)	5070		"	5000	904	83.3	80-120	0.481	20	
Xylene (o)	2450			2500	311	85.6	80-120	6.27	20	
Surrogate: a,a,a-Trifluorotoluene	108			100		108	80-120			
Surrogate: 4-Bromofluorohenzene	124		n	100		124	80-120			S-0
Batch EF51305 - Solvent Extraction (GC	C)									
Blank (EF51305-BLK1)				Prepared &	& Analyzed	06/13/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet			# 44 EM		WT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*** * * * * * * * * * * * * * * * * *	
Diesel Range Organics >C12-C35	ND	10.0	ч							
Total Hydrocarbon C6-C35	ND	10.0	•							
Surrogate: 1-Chlorooctane	37.6		mg kg	50.0		75.2	70-130			
Surrogate: 1-Chlorooctadecane	46.0		**	50.0		92.0	70-130			
LCS (EF51305-BS1)				Prepared &	& Analyzed	: 06/13/05				
Gasoline Range Organics C6-C12	456	10.0	mg/kg wet	500		91.2	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	961	10.0		1000		96.1	75-125			
Surrogate: 1-Chlorooctane	41.8		mg kg	50.0		83.6	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			
Calibration Check (EF51305-CCV1)				Prepared &	& Analyzed	: 06/13/05				
Gasoline Range Organics C6-C12	548	*	mg/kg	500		110	80-120			
Diesel Range Organics >C12-C35	525			500		105	80-120			
Total Hydrocarbon C6-C35	1070		"	1000		107	80-120			
Surrogate: 1-Chlorooctane	56.5			50.0		113	70-130	·		
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 06/17/05 10:05

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 EF51305 - Solvent Extraction (GC	2)									
Matrix Spike (EF51305-MS1)	Source	e: 5F13001	-01	Prepared &	Analyzed:	06/13/05				
Gasoline Range Organics C6-C12	524	10.0	mg/kg dry	537	ND	97.6	75-125			
Diesel Range Organics >C12-C35	600	10.0	**	537	21.7	108	75-125			
Total Hydrocarbon C6-C35	1120	10.0	**	1070	21.7	103	75-125			
Surrogate: 1-Chlorooctane	52.4		mg kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadevane	19.9		"	50.0		99.8	70-130			
Matrix Spike Dup (EF51305-MSD1)	Sourc	e: 5F13001	-01	Prepared &	& Analyzed:	06/13/05				
Gasoline Range Organics C6-C12	549	10.0	mg/kg dry	537	ND	102	75-125	4.66	20	
Diesel Range Organics >C12-C35	550	10.0	,,	537	21.7	98.4	75-125	8.70	20	
Total Hydrocarbon C6-C35	1100	0.01	н	1070	21.7	101	75-125	1.80	20	
Surrogate: 1-Chlorooctane	52.9		mg-kg	50.0		106	70-130			
Surrogate: 1-Chloroociadecane	51.0		"	50.0		102	70-130			

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396 Project Manager: Ike Tavarez Reported: 06/17/05 10:05

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF51401 - General Preparation (Prep)	_							-		
Blank (EF51401-BLK1)	·		·	Prepared: ()6/13/05 A	nalyzed: 06	/14/05			
% Moisture	ND	0.1	%							
Duplicate (EF51401-DUP1)	Sou	arce: 5F13001-	01	Prepared: (06/13/05 A	nalyzed: 06	/14/05			
% Moisture	7.1	0.1	%		6.9			2.86	20	
Batch EF51505 - Water Extraction										
Blank (EF51505-BLK1)				Prepared 8	2 Analyzed:	06/13/05				
Chloride	ND	0.500	mg/kg							
LCS (EF51505-BS1)				Prepared &	k Analyzed:	06/13/05				
Chloride	10.3		mg/L	10.0		103	80-120			
Calibration Check (EF51505-CCV1)				Prepared &	2 Analyzed:	06/13/05				
Chloride	10.9	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L	10.0		109	80-120		· · · · · · · · · · · · · · · · · · ·	
Duplicate (EF51505-DUP1)	Soi	urce: 5F13004-	06	Prepared &	E Analyzed:	06/13/05				
Chloride	72.7	5.00	mg/kg		88.6			19.7	20	
Batch EF51506 - Water Extraction										
Blank (EF51506-BLK1)				Prepared &	& Analyzed	06/14/05				
Chloride	ND	0.500	mg/kg							
LCS (EF51506-BS1)				Prepared &	& Analyzed	: 06/14/05				
Chloride	10.7		mg/L	10.0		107	80-120			

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2396

Project Manager: Ike Tavarez

Reported: 06/17/05 10:05

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF51506 - Water Extraction										
Calibration Check (EF51506-CCV1)				Prepared &	Analyzed:	06/14/05				
Chloride	. 11.1		mg/L	10.0		111	80-120			
Duplicate (EF51506-DUP1)	Sour	ce: 5F13005-	18	Prepared &	Analyzed:	06/14/05				
Chloride	766	0.01	mg/kg		770			0.521	20	

Highlander Environmental Corp.

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

Project Number: 2396

Midland TX, 79705

Project Manager: Ike Tavarez

O6/17/05 10:05

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference LCS Laboratory Control Spike Matrix Spike MS

	Kaland K July		
Report Approved By:	Karan Cros	Date:	6/17/2005

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

Analysis Request and	d Chain of Custody	Record	PAGE: OF: 3
			ANALYSIS REQUEST (Circle or Specify Method No.)
1910 N. Midland,	VVIRONMENTAL CC Big Spring St. Texas 79705		720.005 Pb Hg Se Pd Hg So
(432) 682-4559	•	() 682-3946	
CLIENT NAME: POGO	ITE MANAGER: Ike Tavirez	PRESERVATIVE METHOD	A de Ba Ca
PROJECT NO.: 2396 PROJECT NAME: POGO / Eus	+ Living Ston Ridge # ITES		MARCO / BORD / B
4 7 4 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAMPLE IDENTIFICATION	HCI, HNOS ICE NONE	NTR B020/802 ATR 418.1 G PAH 6270 BCEA Metels Ag A TCLP
-01 614165 S X A H -1	(0-1.0')	X	
02 5 1 1	(1.0'-1.5')	X	
03 S X AH -1	12.0'-2.5']	χ	
-04 S NAH-1	(3.0'-3.5')	X	
05 S NAH-2	$(0 - 1.0^{\circ})$	$ \chi $	X X I I I I I X I I I I I X
5 XAH-2	[].0'-1.5']	ΙΙΧ	<u> </u>
-0-1 S NAH-2	(2.0'-2.5')	X	
08 5 KAH-2	(3.0'-3.5')	X	
-09 5 KAH-3	(0-1.0')	X	K H
100 1 KAH-3	[1.0'-1.5']		
RELINGUISTED BY (Managhro) Date: Colf	F: Z. RECEIVED HY: (Signature)	Date:	SAMPLED BY: (Print & Sign) Aug Tuyle & French Heat. Time: Heck
RELINGUISHED BY: (Signature) Date: RELINGUISHED BY: (Signature) Date:	RECEIVED BY: (Signature) RECEIVED BY: (Signature)	Date: Time: Date:	SAMPLE SHIPPED SY: (Circle) FEDER BUS AIRBILL & TAND DELIVERED UPS OTHER:
RECEIVING LABORATORY: 7 Time:	The age (age and a professional)	Time:	HIGHLANDER CONTACT PERSON: Results by:
ADDRESS:	RECEIVED BY: (Signature) () DATE: (1015 TIME:	4:20	IKC Thurstz Russe Charges Authorized: Yes Ro
SAMPLE CONDITION THEN RECEIVED: MATR	IX: N-Vater A-Air 5D-Solid 5-Sgi) SL-Sludge 0-Other	REMARKS:	Ofeol Manager relating pink copy - Accounting receives Gold copy.

. [Analysis Request	and Chain of	Custody	R	ecc	ord	_					PA				0	F:	3
										(Cir	AN O elo			EQUE Met		No.)		
***************************************	Midla	EIVIROIVIAEI N. Big Spring St. nd, Texas 79705				7046	Principles and the second seco		727.006	Pb Mg Be								
ĺ	(432) 682-4559	CHINE 2// DTA CITTE	Fax (43	72)					Á	3 3			2 S	2 2	PE	7		
	CLIENT NAME: POGO	SITE MANAGER: Ike Tu	U4/82			ERVATIV THOD	VE.		CEOUS MODE	å å		Sea .	NZ80/824	פנול	TDS Chloride			
	PROJECT NO.: 2396 PROJECT NAME OF COMMENT	East Living Ston O	Ridge #1708	(X/X)			N. S.	8080/008		to Ag As	1908	rotatile	104	ااد	- 1	1 1	(Air)	
5F	IAB I.D. DATE TOME XX 0 EN LEVEL STORY	SAMPLE DENTIFICATION	101	3660	HCL. HNOS	ICE NONE	STITLE BOSH /REE	MATER BORN	PAH HS70		TOLP Volatilos	REAL COMMUNICATIONS	CC.WS Vol. 82	PCB's 8080/608	Peet. 808/808 800, TSS, p.E.	Сатапа Брос.	Appa Beta PLN (Asbesi	
	U 619105 S X A H	1-3 (2.0'-2.5')	A readown			X									X			
	72 1 S NAH	-3 (30'-35)]]			X									X			
	73 1 15 X AH	-3 (4.0' - 4.5')	1			X												
•	-C4 S XAH	-3 (5.0'-5.5')	i			X												
h-man my company	75 5 XAH	-4 (0-1.0')				X	X		X						Χ			
***************************************	tle S XAH	-4 (1.0'-1.5')				X									χ			
A	77 S XAH-	4 (2.0'-2.5')				X									X			
dance of track	18 5 1/44	-4 (3.0° -3.5°)	1			X						***************************************			X			
*	-19 S NAH	4 [40-45]				X												
***************************************	20 S X/A/A	-5 (0-1.0')				1	X	- Lungada	X						X			
1	RELINGUISHED BY: (Signature) Date: Time:	HECEVED BY: (S		T	late:			11	Rivy To	cy er	Print L J.G	ten. 7	1.70011	12	D 71	ete: ime:	11.00	1/4/
	RELINQUISHED BY (Signature) Date: RELINQUISHED BY: (Signature) Date:	RECSIVED BY: (S		r	late: inus: late:			_	edex	CELLVE	PED A RED)	r: (Cti	BUS UPS		AIRE OTH	IIL # ER:	!	
	RECEIVING LABORATORY:				irae:			_			CONTA	CT PE			-7.4	Bagg	ite by:	
1	ADDRESS: ITY: STATE: CONTACT: PHONE:	ZIP: DATE:	Section		4120)		-	Ike	10	Whole	سة "					H Char horizad: s	
a de la constante de la consta	SAMPLE CONDITION WHEN RECEIVED: Please Fill out all copies — Leboratory retains	MATRIX: W-Weter A-Air E-Soil SL-Sludge				3.00		40%	r iv	ľ	£).CO	6/	lat	els		tuan f	

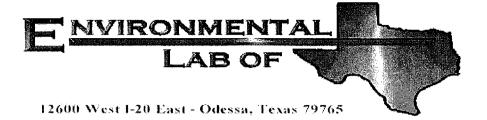
Analysis Request and C	nain of Custody	Record	PAGE: 3 OF: 3 ANALYSIS REQUEST
HIGHLANDER ENVI			(Circle or Specify Method No.)
1910 N. Big S Midland, Tex (432) 682-4559	Spring St. as 79705	32) 682-3946	7 TT1005 G Pb Hg 86 G Pd Hg 86
CLIENT NAME: POGO SITE WAN	AGER: Ite Tavarez 8888	PRESERVATIVE METHOD	28 CHOLD WITE, 38 CHOLD WITE, 34 As Ba Cd C
PROJECT NO.: 2396 PROJECT NAME: POGO/ELST LIVIO	rystin Ridge HI TB	(N/)	100 100 100 100 100 100 100 100 100 100
LAB I.D. DATE TIME EL S. SAMPLE 3005	DENTIFICATION	FULKERED (F/N) HCL FINOS FCR NONE	SYEK BOZZO/SER- MTBE 30480, FORE THE 418.1 (HOUS BITH PAH CETO TILP MALLIN AG As Ba CA TILP WALLINS TILP SAMI VOIRTINS TILP SAMI (Asbestos) FUN (Asbestos)
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RECEIVING LABORATORY: 5 L C ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:	RECEIVED BY (Signature) () DATE: U (D) TIME:	4:20	If C TAVARET RUBH Charges Authorized:
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Environmental Lab of Texas Variance / Corrective Action Report - Sample Log-In

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Analytical Report

7/5/05



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Location: Lea County, NM

Lab Order Number: 5F28011

Report Date: 07/05/05

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 07/05/05 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-5 (1.0' - 1.5')	5F28011-01	Soil	06/09/05 00:00	06/10/05 16:20
AH-5 (2.0' - 2.5')	5F28011-02	Soil	06/09/05 00:00	06/10/05 16:20

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 07/05/05 10:17

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	D'Il a' a	Darek	D	414	Madad	Maria
AH-5 (1.0' - 1.5') (5F28011-01) Soil	resuit	Limit	Omts	Dilution	Batch	Prepared	Analyzed	Method	Notes
A11-3 (1.0 - 1.5) (3F20011-01) 30H									-
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF52907	06/29/05	06/29/05	EPA 8015M	O-05
Diesel Range Organics >C12-C35	ND	10.0	*	"				···	O-05
Total Hydrocarbon C6-C35	ND	10.0	n	"	*	**		**	O-05
Surrogate: 1-Chlorooctane		88.0 %	70-1.	30	"	"	п	"	O-05
Surrogate: 1-Chlorooctadecane		109 %	70-1.	30	"	"	"	н	()-05
AH-5 (2.0' - 2.5') (5F28011-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ı	EF52907	06/29/05	06/29/05	EPA 8015M	O-05
Diesel Range Organics >C12-C35	ND	10.0	**	**	**	и	"	**	O-05
Total Hydrocarbon C6-C35	ND	10.0	"	*	**			•	O-05
Surrogate: 1-Chlorooctane		90.4 %	70-1	30	"	"	"	,,	()-03
Surrogate: 1-Chlorooctadecane		114%	70-1	30	"	"	"	"	()-05

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 07/05/05 10:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 (1.0' - 1.5') (5F28011-01) Soil									
% Moisture	2.4	0.1	%	i	EF53005	06/29/05	06/30/05	% calculation	
AH-5 (2.0' - 2.5') (5F28011-02) Soil									
% Moisture	2.3	0.1	%	ŀ	EF53005	06/29/05	06/30/05	% calculation	

1910 N. Big Spring St. Midland TX. 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 07/05/05 10:17

Organics by GC - Quality Control Environmental Lab of Texas

Analysis	Result	Reporting Limit	Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Notes
Analyte 	Result	Limit	Units	Level	Result	70KEC	Limits	KPD	LIMI	notes
Batch EF52907 - Solvent Extraction (C	GC)									
Blank (EF52907-BLK1)				Prepared &	: Analyzed:	06/29/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10,0	н							
Surrogate: 1-Chlorooctane	36.5		mg kg	50.0		73.0	70-130			
urrogate: 1-Chlorooctadecane	45.5		"	50.0		91.0	70-130			
.CS (EF52907-BS1)				Prepared &	: Analyzed:	06/29/05				
Gasoline Range Organics C6-C12	384	10.0	mg/kg wet	500		76.8	75-125			
Diesel Range Organics >C12-C35	543	10.0	w	500		109	75-125			
otal Hydrocarbon C6-C35	927	10.0	**	1000		92.7	75-125			
urrogate: 1-Chlorooctane	40.9		mg kg	50.0		81.8	70-130			
urrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			
Calibration Check (EF52907-CCV1)				Prepared: (06/29/05 A	nalyzed: 06	5/30/05			
Gasoline Range Organics C6-C12	460		mg/kg	500		92.0	80-120			
Diesel Range Organics >C12-C35	598		•	500		120	80-120			
otal Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	61.4		"	50.0		123	70-130			
urrogate: 1-Chlorooctadecane	61.7		"	50.0		123	70-130			
Aatrix Spike (EF52907-MS1)	Sou	rce: 5F28011	1-01	Prepared &	& Analyzed	06/29/05				
Gasoline Range Organics C6-C12	455	10.0	mg/kg dry	512	ND	88.9	75-125			
Diesel Range Organics >C12-C35	557	10.0		512	ND	109	75-125			
otał Hydrocarbon C6-C35	1010	10.0		1020	ND	99.0	75-125			
Surrogate: 1-Chlorooctane	52.0		mg kg	50.0		104	70-130		****	
Surrogate: 1-Chlorooctadecane	52.0		"	50.0		104	70-130			
Matrix Spike Dup (EF52907-MSD1)	Sou	rce: 5F2801	1-01	Prepared &	& Analyzed	: 06/29/05				
Dasoline Range Organics C6-C12	451	0.01	mg/kg dry	512	ND	88.1	75-125	0.883	20	
Diesel Range Organics >C12-C35	566	10.0	"	512	ND	111	75-125	1.60	20	
Total Hydrocarbon C6-C35	1020	10.0	**	1020	ND	100	75-125	0.985	20	
Surrogate: 1-Chlorooctane	54.0		mg kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130			

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396

Project Manager: Ike Tavarez

Reported: 07/05/05 10:17

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF53005 - General Preparati	on (Prep)					_			· 	
Blank (EF53005-BLK1)				Prepared: (06/29/05 A	nalyzed: 06	/30/05			
% Moisture	ND	0,1	%							
Duplicate (EF53005-DUP1)	Source	e: 5F28011-	91	Prepared: ()6/29/05 A	nalyzed: 06	5/30/05			
% Moisture	2.1	0.1	%		2.4			13,3	20	

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396 Project Manager: Ike Tavarez

Reported: 07/05/05 10:17

Notes and Definitions

O-05 This sample was extracted outside of the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report	Approved	By:

Raland Khub

Date:

7/5/2005

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.

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

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Midland, Texas

FAX

DATE:

6-28-05

TO:

Jennie

WITH:

Environmental Lab of Texas

FAX:

1-(432) 563-1713

FROM:

Ike Tavarez

WITH:

Highlander Environmental Corp.

Midland, Texas

PAGES:

(including Fax cover)

Description:

Pogo, Livingston Ridge #1: Request Additional Analyses:

, ,

Lab Order # 5F3005

#5

1-1.5 TPH

2-2.5 TPH

3-3.5 Run, if TPH 2-2.5- sample exceed 5,000 mg/kg

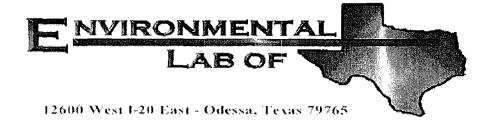
HIGHLANDER ENVIRONMENTAL CORP. 1910 N. BIG SPRING MIDLAND, TEXAS 79705 (432) 682-4559

e-mail: itavarez@hec-enviro.com

If fax is not legible please call lke Tavarez at (432) 682-4559

Analytical Report

7/26/05



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Location: Lea County, NM

Lab Order Number: 5G20014

Report Date: 07/26/05

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396 Project Manager: Ike Tavarez Reported: 07/26/05 08:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-5 (4.0-4.5')	5G20014-01	Soil	06/09/05 00:00	06/10/05 16:20

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396
Project Manager: Ike Tavarez

Reported: 07/26/05 08:13

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 (4.0-4.5') (5G20014-01) Soil									
Chloride	3800	50.0	mg/kg	100	EG52508	07/22/05	07/22/05	EPA 300.0	O-04

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396
Project Manager: Ike Tavarez

Reported: 07/26/05 08:13

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG52508 - Water Extraction			C+ #+							
Blank (EG52508-BLK1)				Prepared &	Analyzed:	07/22/05				
Chloride	ND	0.500	mg/kg							
LCS (EG52508-BS1)				Prepared &	Analyzed:	07/22/05				
Chloride	10.9		mg/L	10.0		109	80-120	/- 14/		
Calibration Check (EG52508-CCV1)				Prepared &	Analyzed:	07/22/05				
Chloride	9.34		mg/L	10.0		93.4	80-120			
Duplicate (EG52508-DUP1)	Sou	rce: 5G18015-	17	Prepared &	Analyzed:	07/22/05				
Chloride	1540	25.0	mg/kg		1660			7.50	20	

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

Midland TX, 79705

Project Number: 2396 Project Manager: Ike Tavarez

Reported: 07/26/05 08:13

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Reland KJulib
Date: 7/26/2005

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.

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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy _ Accounting receives Gold copy. Add OF 07-20-05 as per catached e-mail

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

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Sample Facel	ot Checklist	tess	
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Jeanne McMurrey

From:

"Tim Reed" <treed@hec-enviro.com>

To:

"Jeanne McMurrey" <jeanne@elabtexas.com> Wednesday, July 20, 2005 10:38 AM

Sent:

Subject:

RE: Report #5F20005 COG/ Keystone #4

July 20, 2005

Environmental Labs of Texas

Jeanne:

We request the following sample analysis be added to Lab Number 5F13005:

Pogo/ East Livingston Ridge #1 TB AH-5 (4.0'-4.5'), Chloride

We realize that the sample holding time for chloride (28 days) has been exceeded.

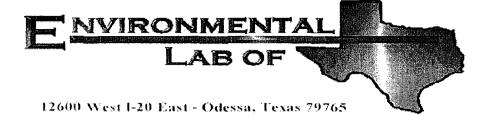
Thank you,

Tim Reed, P.G. Vice President Highlander Environmental Corp. office - (432) 682-4559 fax - (432) 682-3946 cell - (432) 557-4680

This message has been scanned for viruses and dangerous content by MailScanner at BasinBroadBand.com, and is believed to be clean.

This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean. MailScanner thanks transtec Computers for their support.

Analytical Report 9/20/05



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Location: Lea Co., NM

Lab Order Number: 5113015

Report Date: 09/20/05

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396
Project Manager: Ike Tavarez

Reported: 09/20/05 08:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (5-6)	5113015-01	Soil	09/08/05 00:00	09/13/05 16:00
BH-1 (10-11)	5113015-02	Soil	09/08/05 00:00	09/13/05 16:00
#1 Composite	5113015-03	Soil	09/08/05 00:00	09/13/05 16:00

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ East Livingston Ridge #1 TB

Project Number: 2396 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/20/05 08:34

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
#1 Composite (5113015-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ı	E151414	09/14/05	09/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	"	•	n.	w	· ·	
Total Hydrocarbon C6-C35	ND	10.0	**	•	n	u		11	
Surrogate: 1-Chlorooctane		91.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.8 %	70-1	30	"	"	"	"	

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396
Project Manager: Ike Tavarez

Reported: 09/20/05 08:34

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (5-6) (5113015-01) Soil									
Chloride	3270	50.0	mg/kg	100	E151508	09/15/05	09/15/05	EPA 300.0	
BH-1 (10-11) (5113015-02) Soil									
Chloride	167	10.0	mg/kg	20	EI51508	09/15/05	09/15/05	EPA 300.0	
#1 Composite (5113015-03) Soil									
% Moisture	3.2	0.1	%	l	E151420	09/14/05	09/14/05	% calculation	

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2396 Project Manager: Ike Tavarez

Reported: 09/20/05 08:34

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 El51414 - Solvent Extraction (GC	·)		-							
Blank (EI51414-BLK1)				Prepared: ()9/14/05 A	nalyzed: 09	/15/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0								
otal Hydrocarbon C6-C35	ND	10.0								
Surrogate: 1-Chlorooctane	44.7		mg kg	50.0	70 700 000 700	89.4	70-130	·····		
Surrogate: 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130			
LCS (E151414-BS1)				Prepared: (09/14/05 A	nalyzed: 09	/15/05			
Gasoline Range Organics C6-C12	412	10.0	mg/kg wet	500		82.4	75-125			
Diesel Range Organics >C12-C35	436	10.0	"	500		87.2	75-125			
Fotal Hydrocarbon C6-C35	848	10.0		1000		84.8	75-125			
Surrogate: 1-Chlorooctane	50.9		mg kg	50.0		102	70-130			
urrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130			
Calibration Check (EI51414-CCV1)				Prepared: (09/14/05 A	nalyzed: 09	0/17/05			
Gasoline Range Organics C6-C12	443		mg/kg	500		88.6	80-120			
Diesel Range Organics >C12-C35	422		**	500		84.4	80-120			
Total Hydrocarbon C6-C35	865		11	1000		86.5	80-120			
Surrogate: 1-Chloroociane	51.9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50.0		104	0-200			
Surrogate: 1-Chlorooctadecane	53.5		"	50.0		107	0-200			
Matrix Spike (EI51414-MS1)	Sou	rce: 5113008	-01	Prepared:	09/14/05 A	nalyzed: 09	9/15/05	•		
Gasoline Range Organics C6-C12	939	10.0	mg/kg dry	568	289	114	75-125			
Diesel Range Organics >C12-C35	1400	10.0	"	568	721	120	75-125			
Total Hydrocarbon C6-C35	2340	10.0	"	1140	1010	117	75-125			
Surrogate: 1-Chlorooctane	61,4		mg kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		113	70-130			
Matrix Spike Dup (E151414-MSD1)	Sou	rce: 5113008	-01	Prepared:	09/14/05 A	nalyzed: 09	9/15/05			
Gasoline Range Organics C6-C12	914	10.0	mg/kg dry	568	289	110	75-125	2.70	20	
Diesel Range Organics >C12-C35	1400	10.0		568	721	120	75-125	0.00	20	
Total Hydrocarbon C6-C35	2310	10.0		1140	1010	114	75-125	1.29	20	
Surrogate: 1-Chlorooctane	53.0		mg kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			

Project: Pogo/ East Livingston Ridge #1 TB

8,80

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Chloride

Project Number: 2396 Project Manager: Ike Tavarez Reported: 09/20/05 08:34

20

0.684

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch El51420 - General Preparation (Prep)			,							
Blank (E151420-BLK1)				Prepared 8	Analyzed:	09/14/05				
% Solids	100		%							
Duplicate (EI51420-DUP1)	Sou	rce: 5113009-0)1	Prepared &	Analyzed:	09/14/05				
% Solids	96.2		%		97.6	THE RESIDENCE OF THE PARTY OF T		1.44	20	
Duplicate (EI51420-DUP2)	Sou	rce: 5113010-0	04	Prepared &	k Analyzed:	09/14/05				
% Solids	98.1		%		98.1			0.00	20	
Duplicate (E151420-DUP3)	Sou	rce: 5114002-0	03	Prepared &	k Analyzed	09/14/05				
% Solids	99.9		%		99.9			0.00	20	
Batch El51508 - Water Extraction										
Blank (EI51508-BLK1)				Prepared &	k Analyzed	09/15/05				
Chloride	ND	0,500	mg/kg					*		
LCS (E151508-BS1)				Prepared &	& Analyzed	09/15/05				
Chloride	8.41	and the first of the state of t	mg/L	10.0		84.1	80-120			
Calibration Check (E151508-CCV1)				Prepared &	& Analyzed	: 09/15/05				
Chloride	8.45		mg/L	10.0		84.5	80-120			
Duplicate (E151508-DUP1)	Sou	rce: 5113014-	07	Prepared &	& Analyzed	: 09/15/05				

8.74

5.00

mg/kg

Project: Pogo/ East Livingston Ridge #1 TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2396
Project Manager: Ike Tavarez

Reported: 09/20/05 08:34

Notes and Definitions

DET A

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

LCS

Laboratory Control Spike

MS

Matrix Spike

Dup

Duplicate

Report Approved By:

Raland Ktub

Date

9/20/2005

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

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

Analysis Request and Ch	ain of Custod	W	R	60	or	d									AGE:					OF:	:	\mathcal{I}	
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CLIENT NAME: / SITE MANA.	all or	STATE			SERI METH		VE	***************************************		MOTE MOTE	3	3			80/684	8270/828			Chlorid	*			
CLIENT NAME: CLIENT NAME: CARCINA NAME: PROJECT NO. 396 PROJECT NAME: CARCINA CAR	ivingston 4	CONTAINING	(K/K)					202	- 1		1 Ag A5	Ag Au	63	Volatilien	38/0726		809/		725.	(Atr.)	'oa)	Z Q	
LAB I.D. DATE TIME AND SAMPLE I	orthy, Whire	NUMBER OF	280	HCL	ICE	NONE		BTEX 8020/608	WINE 8080/608	PAN SETO	BCRA Metals Ag	TCLP Metals	NAP Voletiles	TCLP Seral	GC.MS Vol. 0240/8890/	GCMS Sami. Vol.	PCB's 8080/608	Pest 808/808	500, 755, pH.	Alpha Beta	PLM (Asbestos)	Char	
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CONTACT: PHONE: SAMPLE CONDITION WHEN RECEIVED: O' ICE MATRIX: W-I SO SAMPLE CONDITION WHEN RECEIVED: O' ICE MATRIX: W-I SO SAMPLE CONDITION WHEN RECEIVED: O' ICE [OFFICE AND SAMPLE CONDITION OF ICE OF	Yeter A-Air SD-Solid Ioli SL-Sludge G-Cibor			REW	0,000		Pm	iani					-					recording (134 f d)		You	an f	eK	000

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy

Sea! 10 (00)6

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

Client: Huklander		-		
Date/Time: 4/15/65 10:00				•
ALCO TOTO				
Order #: 5 <u>5</u> 13015		•		
nitials:	•			
Sample Receipt	Chackli	ct		
emperature of container/cooler?	Yes	No	3.0 0	
hipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Yes	No	1400 present	
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yês	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	YES	No		
Samples in proper container/bottle?	Yes	No		
Samples in proper contamer/bottle:	Yes Yes	No		
Sample bottles intact?	·	No		
Preservations documented on Chain of Custody?	Yes Xes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	1 Kes	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	
Other observations:				
			" 1 .	
Variance Docu				
Contact Person: Date/Time:			Contacted by:	
Regarding:				•
Corrective Action Taken:				
Confedive Action Taken.	:			
		· · · · · · · · · · · · · · · · · · ·		
			· ************************************	

APPENDIX C

Jun 03 05 03:32p

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1263 811 South First Artests, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Axtec, NM 87410 District IV - (505) 827-7131

State of New Mexico

Energy Minerals and Natural Resources Department
Oil Conservation Division

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C- 141 Originated 2/13/97

Submit 2 coples to Appropriate District Office in accordance with Rule 116 on back side of form

Kelease Notification	Release Notification and Corrective Action										
OPI	Initial Report Final Report										
POGU PRODUCING CO.	PAT EI/15	-									
PO BOX 10340 MidlAND X. 7570	Telephone No.	85-8100									
Partiting Name	Facility Type										
EAST LININGSTON RIDGE UNIT #1	L BATTERY										
Surface Owner BLM Mineral Owner	BLM	Lean No. NM 32 4//									
LOCATION											
Unit Letter Section Resembly Range From the North/South Line Fact from the East/West Line County 18 22 5 32 C 660 FNL 990 FWL LEA											
NATURE O	f release										
Type of Achinger PROOF ward water	Volume of Release	Volume Recovered									
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery									
PRINCED WATER TANK FIRE	6/3/05 1 AM	6/3/05 8,00 AM									
Was Immediate Notice Given? No Not Required	Buddy	. 1111									
By Whorn?	Date and Hour										
TOM BUTTERS		14 BM									
Was a Waterconstne Reached? Yes No	If YES, Volume Impacting the	e Watergaurat.									
If a Watercourse was impacted, Describe Fully (Attach Additional Sheets If Necessary)											
NA											
Describe Cause of Problem and Humedial Action Taken. (Accach Additional Sheets If No	CESTATY) LIGHTONGS	truck 500BBI F.G.									
Describe Cause of Problem and Hamadial Action Talon. (Assach Additional Shores If No WTR TANK LOST 75BBI PROCESURED to FIRE WAII.	Alen, All STA	yED inside									
Describe Area Affected and Cleanup Action Taken. (Accords Additional Sheets if Necessa	m Lighting Str	nok 500 881 FG.									
TANKSattmait DN FIRE 75 BBIS PA	Ded LIATER WAS	out 1 NSIelo.									
FIREWAIL PICK UP WATER, TANK WILL be WILL BE HAUSED TO SUNDANCE LAND	e fepinced. F. CONT Farm	STATE A PLANT OF									
I hereby constry that the information gives above is true and consolete to the best of my length	indee and understand that customent to N	VMOCD rains and regulations all operators									
are required to report und/or file certain reletar notifications and perform connective actions for a C-141 report by the NIMOCD marked as "final Report" does not relieve the operator of kal- contamination that note a sheer to remain water, surface water, human health or the contemporary	or releases which may endanger public he bility should sheir operations have failed resent. In addition, NMOCD acceptance	with or the environment. The suspenses of									
operator of responsibility for compliance with any other failersi, scare, or local laws and/or	regulations.										
Syman May Born	QIL CONS	SERVATION DIVISION									
Printed Name: CLMY OSBORN	Approved by Discrice Supervisor: Approved Date:										
Tide: Find of my Of my And	Explination Date:										
Date: 6/3/05 Phones: 132-631-0129	Conditions of Approval:	Agrached									

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 June 10, 2003

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

Release Notification and Corrective Action

				9		OPERA'	ГOR		☐ Initial Report ☐ Final Rep						
		ogo Produci				Contact : Pat Ellis									
				Iidland Tx. 7970			No. (432) 685-8								
Facility Nar	ne: East L	ivingston Ri	dge #1			Facility Typ	e: Tank Battery	·							
Surface Ow	ner: BLM			Mineral O	wner:	BLM			Lease N	lo. NM:	32411				
				LOCA	TIOI	OF RE	LEASE								
Unit Letter D	Section 18	Township 22S	Range 32E	Feet from the 660'	North/ FNL	South Line	Feet from the 990'	East/V FWL	West Line						
	· · · · · · · · · · · · · · · · · · ·			NAT	URE	OF REL	EASE								
Type of Rele	ase: Produ	ced water		1111			Release 75 barr	els	Volume I	Recovered	7 ∂ bar	rels			
		luced water ta	nk fire	·			Iour of Occurrence		Date and	Hour of Dis 8:00 AM					
Was Immedia	ate Notice C		Yes [No 🗌 Not Re	quired	If YES, To Buddy Hil									
By Whom?	Fom Butters	<u> </u>				Date and I 6/3/05 8:									
Was a Water	course Read	hed?	Yes 🗵	No		If YES, Vo	olume Impacting t	the Wate	ercourse.						
If a Watamaa	maa ryaa Im	pacted, Descr	iba Fully ?	k NT/A		l									
Lightning str sampled the was installed Describe Are of impacted	Describe Cause of Problem and Remedial Action Taken.* Lightning struck 500 barrel fiberglass water tank, tank lost 75 barrels of produced water (all stayed inside firewall). Highlander personnel inspected and sampled the site on 6/9/05. Five auger holes were installed inside firewall to delineate subsurface impact and soil samples were collected. One borehole was installed near AH-5 and soil soil samples were collected. Describe Area Affected and Cleanup Action Taken.* All fluids were contained within the facility firewall. Highlander personnel supervised excavation of impacted soil from inside the facility firewall on 9/8/05. Impacted soil which exceeded the TPH RRAL was removed and placed on plastic on site. A confirmation sample was taken. TPH was not detected at or above the reporting limit for the confirmation sample. The soil stockpile was removed and														
I hereby cert regulations a public health should their or the enviro	ify that the i ll operators or the envi operations h nment. In a	information grare required to ronment. The nave failed to	iven above to report and acceptant adequately OCD accep	e is true and completed in the certain rece of a C-141 report investigate and retained of a C-141 report ance of a C-141 report investigate.	elease nort by the emediat	otifications a e NMOCD n e contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive act Report" or reat to g	tions for rel does not rel round wate	leases which lieve the oper, surface w	h may e erator o vater, hu	ndanger f liability ıman health			
	<u> </u>						OIL CON	SERV	ATION	DIVISI	ON				
Signature: 6	Latris	12 E	llis												
Printed Nam	e: Pat Ellis					Approved by	District Supervis	sor:							
Title: Division	on Environn	nental Safety	& Health	Supervisor		Approval Da	ite:		Expiration						
E-mail Addr	ess: EllisP@	pogoproduci	ng.com			Conditions of	f Approval:			Attache	d 🗌				
	0/2005	ets If Necess		hone: (432) 685-8	100										