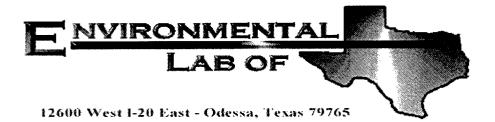
1R- 431

REPORTS

DATE: 44/5/2006



Analytical Report

Prepared for:

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

Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Location: Lea County, NM

Lab Order Number: 6C29010

Report Date: 04/05/06

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C29010-01	Water	03/27/06 10:30	03/29/06 14:50
MW-2	6C29010-02	Water	03/27/06 11:15	03/29/06 14:50
MW-3	6C29010-03	Water	03/27/06 12:00	03/29/06 14:50
RW-1	6C29010-04	Water	03/27/06 09:30	03/29/06 14:50

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (6C29010-01) Water									
Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	"	11	**	**	**	**	
Ethylbenzene	ND	0.00100	"	**	,,	"	11	н	
Xylene (p/m)	ND	0.00100	"	"	"	**	**	n	
Xylene (o)	ND	0.00100	"	"	"	**	31	"	
Surrogate: a,a,a-Trifluorotoluene		97.5 %	80-1	20	"	"	"	n n	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-1	20	n	n	"	n	
MW-2 (6C29010-02) Water									
Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	"	**	11	"	n	"	
Ethylbenzene	ND	0.00100	**	"	"	"	11	"	
Xylene (p/m)	ND	0.00100	"	**	"	"	н	"	
Xylene (o)	ND	0.00100	"	11	11	"	n	**	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-1.	20	"	"	"	u	
MW-3 (6C29010-03) Water									
Benzene	ND	0.00100	mg/L	1	ED60305	04/03/06	04/03/06	EPA 8021B	
Toluene	ND	0.00100	**	n	"	11	"	**	
Ethylbenzene	ND	0.00100	**	n	11	**	"	"	
Xylene (p/m)	ND	0.00100	*1	n	"	11	**	"	
Xylene (o)	ND	0.00100	**	n	n	11	H	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-1	20	"	"	n	"	
RW-1 (6C29010-04) Water									
Benzene	ND	0.00100	mg/L	1	ED60305	04/03/06	04/03/06	EPA 8021B	
Toluene	ND	0.00100	н	n	н	11	"	11	
Ethylbenzene	ND	0.00100	H .	n	ŧŧ	11	**	"	
Xylene (p/m)	ND	0.00100	n	"	**	**	н	11	
Xylene (o)	ND	0.00100	11	"	ır	11	"	11	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1.	20	<i>"</i>	"	n	,	-
Surrogate: 4-Bromofluorobenzene		94.0 %	80-1.	20	"	"	,,	"	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: lke Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C29010-01) Water	***								
Chloride	10.0	2.50	mg/L	5	ED60306	03/31/06	04/03/06	EPA 300.0	
MW-2 (6C29010-02) Water									
Chloride	17.1	2.50	mg/L	5	ED60306	03/31/06	04/03/06	EPA 300.0	
MW-3 (6C29010-03) Water									
Chloride	55.4	5.00	mg/L	10	ED60306	03/31/06	04/03/06	EPA 300.0	
RW-1 (6C29010-04) Water									
Chloride	21700	250	mg/L	500	ED60306	03/31/06	04/03/06	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: lke Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

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 EC63016 - EPA 5030C (GC)										
Blank (EC63016-BLK1)	-			Prepared &	Analyzed:	03/30/06				
Benzene	ND	0.00100	mg/L							-
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00100	н							
Xylene (o)	ND	0.00100	и							
Surrogate: a,a,a-Trifluorotoluene	33.8		ug l	40.0		84.5	80-120		•	
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			
LCS (EC63016-BS1)				Prepared &	Analyzed:	03/30/06				
Benzene	0.0405	0.00100	mg/L	0.0500		81.0	80-120			
Toluene	0.0441	0.00100	**	0.0500		88.2	80-120			
Ethylbenzene	0.0593	0.00100	**	0.0500		119	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.4		ug l	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			
Calibration Check (EC63016-CCV1)				Prepared: 0	3/30/06 A	nalyzed: 03	3/31/06			
Benzene	45.1		ug/l	50.0		90.2	80-120			
Гоluene	41.8		"	50.0		83.6	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	95,9		"	100		95.9	80-120			
Xylene (o)	47.5		,,	50.0		95.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7			40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.1		"	40.0		87.8	80-120			
Matrix Spike (EC63016-MS1)	Sou	rce: 6C24010-	02	Prepared: 0	3/30/06 A	nalyzed: 03	3/31/06			
Benzene	0.0450	0.00100	mg/L	0.0500	ND	90.0	80-120		*	-
Γoluene	0.0429	0.00100		0.0500	ND	85.8	80-120			
Ethylbenzene	0.0491	0.00100	"	0.0500	ND	98.2	80-120			
Xylene (p/m)	0.0999	0.00100	n	0.100	ND	99.9	80-120			
Kylene (o)	0.0492	0.00100	n	0.0500	ND	98.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	35,1		ug l	40.0		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

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 EC63016 - EPA 5030C (GC)										
Matrix Spike Dup (EC63016-MSD1)	Sou	rce: 6C 2 4010-	02	Prepared: 0)3/30/06 A	nalyzed: 03	/31/06			
Benzene	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	3.85	20	•
Toluene	0.0415	0.00100	n	0.0500	ND	83.0	80-120	3.32	20	
Ethylbenzene	0.0475	0.00100	"	0.0500	ND	95.0	80-120	3.31	20	
Xylene (p/m)	0.0971	0.00100	"	0.100	ND	97.1	80-120	2.84	20	
Xylene (o)	0.0475	0.00100	n	0.0500	ND	95.0	80-120	3.52	20	
Surrogate: a,a,a-Trifluorotoluene	43.1		ug l	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	34.5		"	40.0		86.2	80-120			
Batch ED60305 - EPA 5030C (GC)										
Blank (ED60305-BLK1)				Prepared &	Analyzed:	04/03/06				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	**							
Surrogate: a,a,a-Trifluorotoluene	42.0		ug·l	40.0		105	80-120			•
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			
LCS (ED60305-BS1)				Prepared &	Analyzed:	04/03/06				
Benzene	0.0451	0.00100	mg/L	0.0500		90.2	80-120			
Benzene 0.0451 0.00100 mg/L 0.0500 90.2 80-120 Toluene 0.0435 0.00100 " 0.0500 87.0 80-120 Ethylbenzene 0.0584 0.00100 " 0.0500 117 80-120 Xylene (p/m) 0.101 0.00100 " 0.100 101 80-120 Xylene (o) 0.0498 0.00100 " 0.0500 99.6 80-120	87.0	80-120								
	80-120									
	0.0500		99.6	80-120						
Surrogate: a,a,a-Trifluorotoluene	43.5		ug l	40.0		109	80-120		· · • ·	~
Surrogate: 4-Bromofluorobenzene	46.2			40.0		116	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 04/05/06 12:03

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 ED60305 - EPA 5030C (GC)								-		
Calibration Check (ED60305-CCV1)				Prepared: 0	04/03/06	Analyzed: 04	/04/06			
Benzene	43.0		ug/l	50.0		86.0	80-120			
Toluene	40.2		**	50.0		80.4	80-120			
Ethylbenzene	44.6		**	50.0		89.2	80-120			
Xylene (p/m)	90.6		**	100		90.6	80-120			
Xylene (o)	45.4		11	50.0		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.0			40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0		96.2	80-120			
Matrix Spike (ED60305-MS1)	Sou	rce: 6C29010-	03	Prepared: 0	04/03/06	Analyzed: 04	/04/06			
Benzene	0.0435	0.00100	mg/L	0.0500	ND	87.0	80-120			•
Toluene	0.0418	0.00100	**	0.0500	ND	83.6	80-120			
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120			
Xylene (p/m)	0.0983	0.00100	,,	0.100	ND	98.3	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500	ND	93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.9		ug l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			
Matrix Spike Dup (ED60305-MSD1)	Sou	rce: 6C29010-	03	Prepared: 0	04/03/06	Analyzed: 04	/04/06			
Benzene	0.0420	0.00100	mg/L	0.0500	ND	84.0	80-120	3.51	20	-
Toluene	0.0413	0.00100	u	0.0500	ND	82.6	80-120	1.20	20	
Ethylbenzene	0.0562	0.00100	"	0.0500	ND	112	80-120	2.64	20	
Xylene (p/m)	0.0968	0.00100	"	0.100	ND	96.8	80-120	1.54	20	
Xylene (0)	0.0465	0.00100	n	0.0500	ND	93.0	80-120	0.857	20	
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321

Fax: (432) 682-3946

Reported: 04/05/06 12:03

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

Project Manager: Ike Tavarez

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED60306 - General Preparation (V	VetChem)									
Blank (ED60306-BLK1)				Prepared &	Analyzed:	04/03/06	_			
Chloride	ND	0.500	mg/L							
LCS (ED60306-BS1)				Prepared &	Analyzed:	04/03/06				
Chloride	8.69		mg/L	10.0		86.9	80-120			-
Calibration Check (ED60306-CCV1)				Prepared &	Analyzed:	04/03/06				
Chloride	9.04		mg/L	10.0		90.4	80-120			
Duplicate (ED60306-DUP1)	Sou	rce: 6C 2 9006-	01	Prepared &	: Analyzed:	04/03/06				
Chloride	570	10.0	mg/L		564		-	1.06	20	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 04/05/06 12:03

Notes and Definitions

DET Analyte DETECTED ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported Sample results reported on a dry weight basis dry RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

Report Approved By: Raland K Julia

Date:

4/5/2006

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.

PAGE: OF:	(Circle or Specify Method No.)	2000 92 BH 95 BH	Pd -SO QJ -SO SCL	5520/65 560/850 0 85 Cq 12 MOD	1.1 808 1.1 808 1.1 808 1.1 808 1.2 808 1.3 808 1.4 808 1.5 808 1.5 808 1.6 80	DIW (Vaper Vaper V	Х	X	Х	×				SAMPLED BY: (Print & Sign) Date: 72	SAMPLE SHIPPED BY: (Circle) FEDEX BUS ARRHIL &		PERSON:	The Thunks	1-10/2/12 4/10 4/10/2 4/
and Chain of Custody Record	76.27	*	Midland, Texas 79705 Fax (432) 682-3946	SITE MANAGER: The Thut By PRESERVATIVE METHOD	Pidulle State #1	Lea county in Mil of the sample identification had	1-V	1-2 3/WX X	3WX X	X XMX X			<i>y</i>	7/2 170 RECEIVED BY: (Signature) Dete:	RECEIVED BY: (Signature) Date:	RECEIVED BY: (Signature) Date:	RECEIVED (St. (Stepative) (1000)		A-dir SD-Solid SL-Sludgs 0-Other
Analysis Request	T 4 A T T T T T T T T T T T T T T T T T	HIGHLAIVDER 1910 D	Midla) (432) 682-4559	CLIENT NAME: 6/47	PROJECT NO.: 2321 PROJECT NAME:	LAB I.D. DATE TIME EX LOS OF THE STATE OF TH	WIN X W.OC: 01 2012/6 B-	MH/ X M S1:11 991218 DD	12 JUN X 14W	156 3127108 9:30 W NW				RELINGUISHED BY (Signature) Date: Time:	REZINGUISHED BY: (Signature) Date:	RELINGUISHED BY: (Sameture) Date:	RY: ELT	CONTACT: D dess 4 STATE: TF	ONDITION WHEN REC

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

der #. UL9010 tiels Sample Receipt Checklist moerature of container/cooler? moenature of custody signed when retinguished and received? Moenature of custody agrees with sample label(s) Moenature of custody agrees with agree of custody? Moenature of custody agrees with agree of custody? Moenature of custody agrees with agree of custody? Moenature of custody agree of custody? Moenature of custody agrees with agree of custody? Moenature of custody ag	Highlander				
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Sample Receipt Checklist The struct of container/cooler? The struct of container of cooler? The struct of container of cooler? The struct of container of cooler? The structure of container of cooler? The structure complete on Chain of Custody? The structure complete on Chain of Custody? The structure of container of cooler of coole	rder #: 6029010	•			
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ontainer labels legible and intact? Contacted by: No	nain of custody agrees with sample label(s)		No		
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Variance Documentation: Contact Person: - Date/Time: Contacted by: Regarding:	Figure sample amount for indicated test?				
Other observations: Variance Documentation: Contact Person: - Date/Time: Contacted by: Regarding:	All samples received within sufficient hold time?		_	1	•
Variance Documentation: Contact Person: - Date/Time: Contacted by: Regarding:				Not Applicable	
Contact Person: Date/Time: Contacted by: Regarding:	Other observations:				
Contact Person: Date/Time: Contacted by: Regarding:					
Contact Person: Date/Time: Contacted by: Regarding:					
Contact Person: Date/Time: Contacted by: Regarding:	Vania D				
Regarding:			on.		
				_ Contacted by:	
Corrective Action Taken:	Regarding:				
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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 17, 2006

Mr. Timothy M. Reed Highlander Environmental Corp. 1910 N. Big Spring Midland, TX 79705

RE: 2005 Annual Summary Report

Gruy Petroleum Management Co. Riddle State #1 Well Site Unit Letter B, Section 1, Township 22 South, Range 34 East

Lea County, New Mexico NMOCD File 1R-0431

Dear Mr. Reed:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report, submitted by Highlander Environmental Corp. on behalf of Gruy Petroleum Management Co. (Gruy). This report is hereby accepted and approved with the following understandings and conditions:

1.



Midland, Texas

2006 MAIN 27 PM 12 15.

February 15, 2006

Mr. Ed Martin New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Lea County New Mexico.

1R-431

Dear Mr. Martin:

Re:

Highlander Environmental Corp. (Highlander) was contacted by Gruy Petroleum Management to investigate an open reserve pit at the Riddle State #1 well in Lea County, New Mexico (Site) located in Unit Letter B, Section 1, Township 22 South, Range 34 East. The Site is shown on Figure 1.

2005 Annual Summary Report for the Gruy Petroleum Management Company, Riddle State #1 Well, Located in Unit Letter B, Section 1, Township 22 South, Range 34 East,

Background

This well, originally drilled by Matador, is temporarily abandoned. Prior to the well completion, it was sold to Tom Brown, Inc. and eventually to Gruy. The well was drilled prior to the implementation of the New Mexico Oil Conservation Division (NMOCD) Pit and Below Grade Tank Guidelines, issued November 1, 2004. According to information provided to Highlander, the reserve pit contents were planned to be buried in trenches located on the east and west ends of the reserve pit.

In January 2005, Environmental Plus, Inc (EPI) of Eunice, New Mexico installed six hand auger holes and one borehole in and around the reserve pit and trenches. The hand auger holes indicated chloride impact to the west trench and reserve pit area. The borehole was installed outside the southwest end of the reserve pit. The borehole data showed increasing chloride concentrations with depth and was converted to a temporary monitor well (TMW-1). The reported depth to water was 45' below ground surface (bgs). Samples taken from the monitor well indicated chloride impact to the groundwater. The temporary monitor well location is shown on Figure 2.

EPI submitted a "Written notification of groundwater impact and preliminary groundwater delineation plan", dated January 21, 2005. Three (3) permanent monitor wells were proposed for the site to establish hydraulic gradient and delineate groundwater impact. Soil sampling performed by

EPI indicated that the only constituent of concern was chloride, as TPH and BTEX concentrations were not detected at or above the method detection limits.

Regulatory and Groundwater

A risk-based evaluation was performed for the Site in accordance with the 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 100 mg/kg.

Borehole Installation and Sampling

On March 22-23, 2005, a total of eight (8) soil borings were placed in the bottom of the reserve pit and west trench to delineate residual chloride impact to subsurface soils. Soil borings indicated that the pit contents had been removed down to native soils. Soil samples were collected with a split spoon sampler in five foot increments. The boreholes were installed to depths of 37' below the bottom of the reserve pit excavation. Soil samples were analyzed for chloride by method EPA 300.0. The data was submitted to the NMOCD in a work plan dated May 2, 2005. Copies of laboratory analyses and chain-of-custody documentation are included in Appendix A. The location of the soil borings are shown on Figure 3. The results of the sampling are summarized in Table 1.

Based on the soils assessment, subsurface chloride impact appeared to have migrated to groundwater in the vicinity of boreholes BH-5, BH-6 and BH-8, and appeared to be confined to the immediate vicinity of the reserve pit.

Pit Remediation

On March 1-8, 2005, Highlander personnel supervised the removal of the reserve pit contents down to native soil. The reserve pit contents were excavated out of the reserve pit and the east and west trenches by Sweatt Construction Company, Hobbs, New Mexico. A total of 4710 yds³ of material was removed and hauled to Controlled Recovery, Inc. for disposal. After removal, the depth of the reserve pit was 5' to 8' below ground surface.

Upon receipt of NMOCD approval, on July 18, 2005, Highlander supervised the removal of topsoil in a 5' radius around the western half of the reserve pit. This material was placed into the excavation to serve as bedding material for a 40 mil plastic cap. The plastic liner material was installed on August 23, 2005. The plastic was extended to 5' outside the current excavation in order to adequately encapsulate residual chloride impact. The cap area measurrd approximately 100' x 170'. The remainder of the excavation was backfilled with clean topsoil. The placement of the cap is shown on Figure 4.



Monitor Well Installation

On March 24, 2005, three monitor wells (MW-1, MW-2 and MW-3) were installed around the reserve pit. The wells were drilled to depths of 61-62' bgs and completed with 2" PVC screen and casing. According to published data, the groundwater gradient in the vicinity of the site is reportedly south-southwest. One monitor well was placed north of the reserve pit, one was placed southwest of the well pad and one was placed southeast of the well pad. The monitor well locations are shown on Figure 2. The temporary monitor well was plugged by EPI on May 13, 2005.

Following installation, the wells were developed by hand bailing using dedicated hand bailers to remove fine grained sediment, disturbed during drilling, and to ensure collection of representative groundwater samples. Purged water from the wells was taken to a Gruy tank battery north of the site for disposal into the water tank.

Recovery Well Installation/Operation

An Application for Water Exploration/Development was submitted on April 12, 2005 to the New Mexico Commissioner of Public Lands, for a well at this site. On August 10, 2005, Highlander filed an Application for Permit to Use Underground Waters with the New Mexico Office of the State Engineer's office for this well, to be used to supply drilling water. This permitted well was to also be the recovery well for the site. The water removed from the well was to be stored in an onsite tank for drilling water usage. On September 1, 2005, Highlander supervised the installation of a 6" recovery well (RW-1). The recovery well was installed on the south side of the closed reserve pit. The well was drilled to a total depth of 60" bgs, and completed with 4" PVC screen and casing. On October 11, 2005, a solar submersible pump system was installed in the recovery well and the system started up.

On November 18, 2005, the system was serviced and the meter was replaced, due to failure. At that time, the total meter reading was 21,100 gallons of water recovered. In December, 2005, the total volume recovered was 17,025 gallons for a total recorded recovery well volume of 38,125 gallons of water for 2005.

Monitor, Recovery Well Sampling

On March 30, 2005, Highlander purged three casing volumes from the three monitor wells and the temporary monitor well using a submersible pump. Groundwater samples were collected and analyzed for BTEX by method EPA 8021B and major anion and cations by methods EPA 160.1, 300.0, 310.2M, and 6010B. All samples were delivered to the laboratory under chain of custody control. Prior to sampling, the wells were gauged and inspected for the presence of phase-separated hydrocarbons (PSH). No PSH was encountered in the wells. The laboratory report and chain of custody are included in Appendix B. The results are summarized in Table 2.

Based upon the results and at the direction of the NMOCD, a quarterly sampling program was instituted for this site. Quarterly samples were taken on June 21, September 14 and December



15, 2005. The results are summarized in Table 2. Using the water level data, potentiometric surface maps were prepared, which indicate a south-southwest hydraulic gradient. The potentiometric surface maps are included as Figures 5-8.

Groundwater Sample Results

Referring to Table 2, no BTEX concentrations were detected at or above the reporting limits for any of the samples. The New Mexico Water Quality Control Commission (WQCC) limit of 250 mg/L chloride was exceeded only in the temporary monitor well, TMW-1 and subsequent recovery well (RW-1), with chloride concentrations ranging from 18,800 to 24,500 mg/L.

Conclusions

- 1. Soil sampling performed by EPI indicated that the only constituent of concern was chloride, as TPH and BTEX concentrations were not detected at or above the method detection limits.
- 2. Highlander personnel supervised the removal of the reserve pit contents down to native soil. The reserve pit contents were excavated out of the reserve pit and the east and west trenches by Sweatt Construction Company, Hobbs, New Mexico. A total of 4710 yds³ of material was removed and hauled to Controlled Recovery, Inc. for disposal. After removal, the depth of the reserve pit was 5' to 8' below ground surface.
- 3. Upon receipt of NMOCD approval, on July 18, 2005, Highlander supervised the removal of topsoil in a 5' radius around the western half of the reserve pit. This material was placed into the excavation to serve as bedding material for a 40 mil plastic cap. The plastic liner material was installed on August 23, 2005. The plastic was extended to 5' outside the current excavation in order to adequately encapsulate residual chloride impact. The remainder of the excavation was backfilled with clean topsoil.
- 4. Based on the soils assessment, subsurface chloride impact appears to have migrated to groundwater in the vicinity of boreholes BH-5, BH-6 and BH-8, and appear to be confined to the immediate vicinity of the western end of the reserve pit area.
- 5. No BTEX concentrations were detected at or above the reporting limits for any of the groundwater samples. The New Mexico Water Quality Control Commission (WQCC) limit of 250 mg/L chloride was exceeded only in the recovery well, TMW-1, with a chloride concentration of 24,500 mg/L.
- 6. An Application for Water Exploration/Development was submitted on April 12, 2005 to the New Mexico Commissioner of Public Lands, for a well at this site. On August 10, 2005, Highlander filed an Application for Permit to Use Underground Waters with the New Mexico Office of the State Engineer's office for this well, to be used to supply drilling water. This permitted well was to also be the recovery well for the site. The water removed from the well supervised the installation of a 6" recovery well (RW-1). The recovery well was installed on



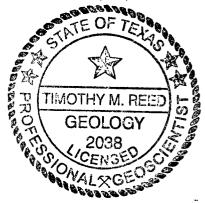
the south side of the closed reserve pit. The well was drilled to a total depth of 60' bgs, and completed with 4" PVC screen and casing. On October 11, 2005, a solar submersible pump system was installed in the recovery well.

- 7. A total recorded volume of 38,125 gallons of water was produced out of the recovery well and placed into an adjoining tank for use as supply water for drilling operations.
- 8. The temporary monitor well was plugged by EPI on May 13, 2005.

Recommendations

- 1. The recovery well will continue to be operated within the parameters of the issued permit for remediation and drilling water purposes.
- 2. The three monitor wells, as well as the recovery well will be sampled on a quarterly basis for chloride, with the results submitted annually. As neither the soil sampling nor groundwater sampling has indicated any BTEX Constituents of Concern (COC), BTEX sampling will be discontinued unless advised otherwise by the NMOCD.

If you have any question or comments concerning the assessment or the activities performed at the Site, please call me at (432) 682-4559.



Respectfully submitted, Highlander Environmental Corp.

Timothy M. Reed, P.G.

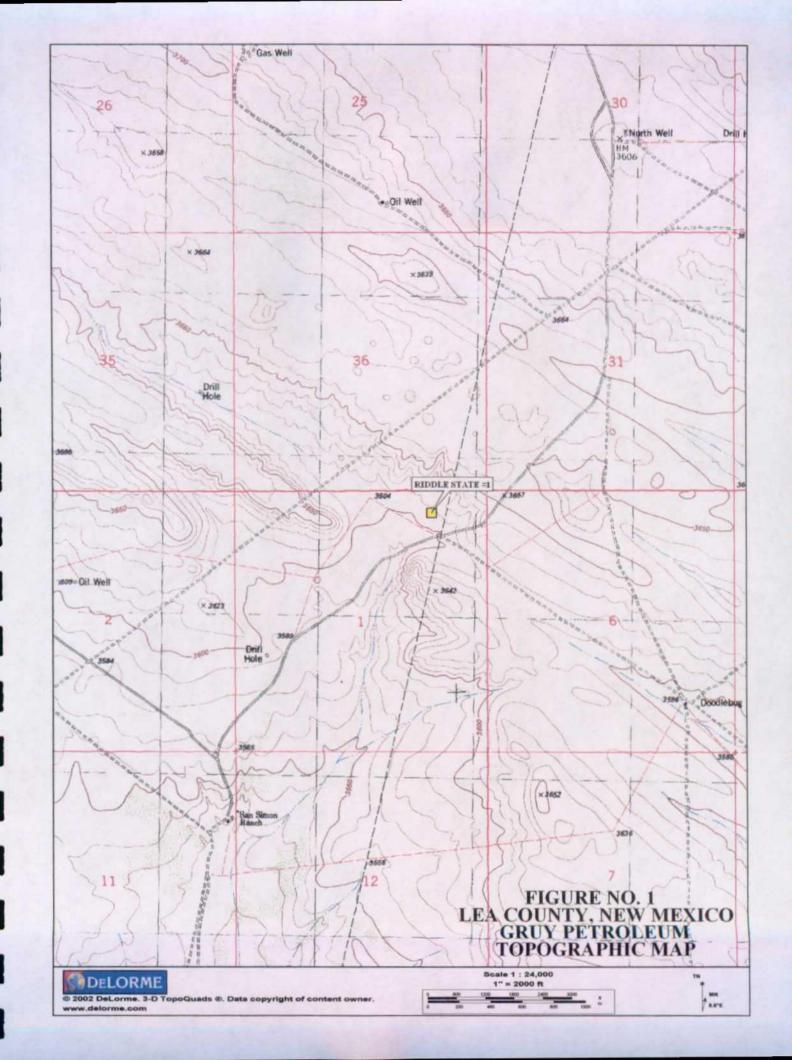
Vice President

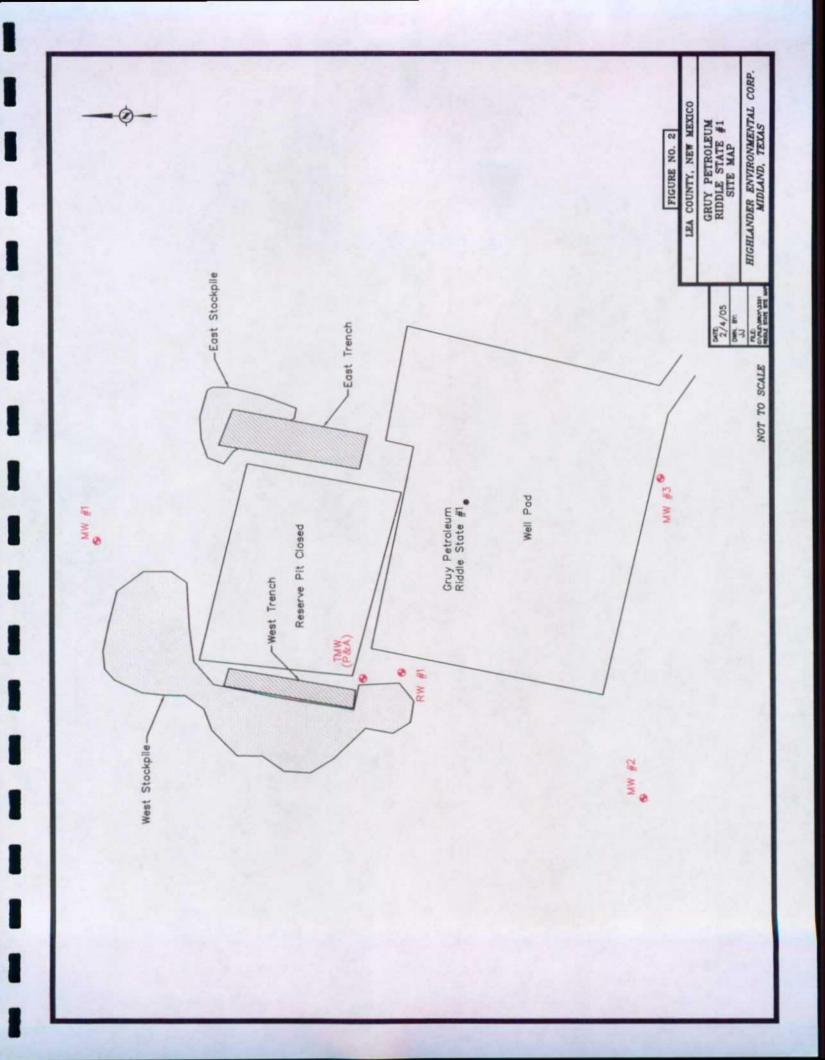
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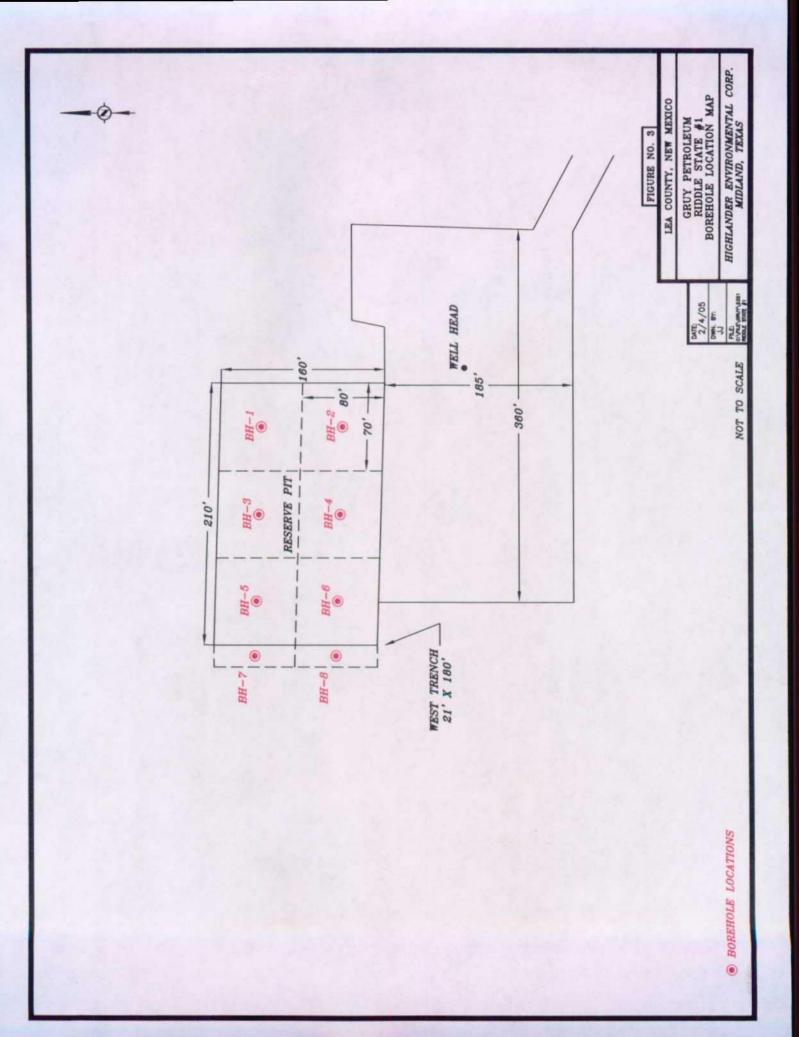
Larry Johnson - NMOCD, Hobbs, NM

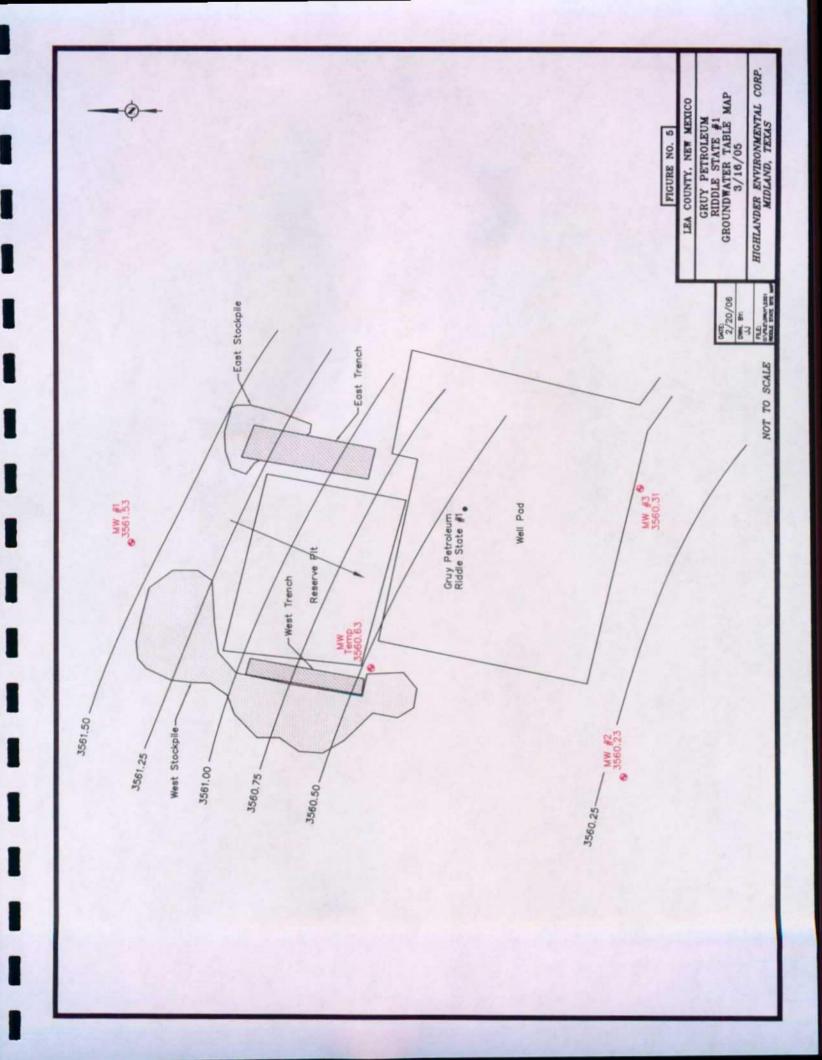
Evan Wahob - Gruy Bob Jennings - Gruy

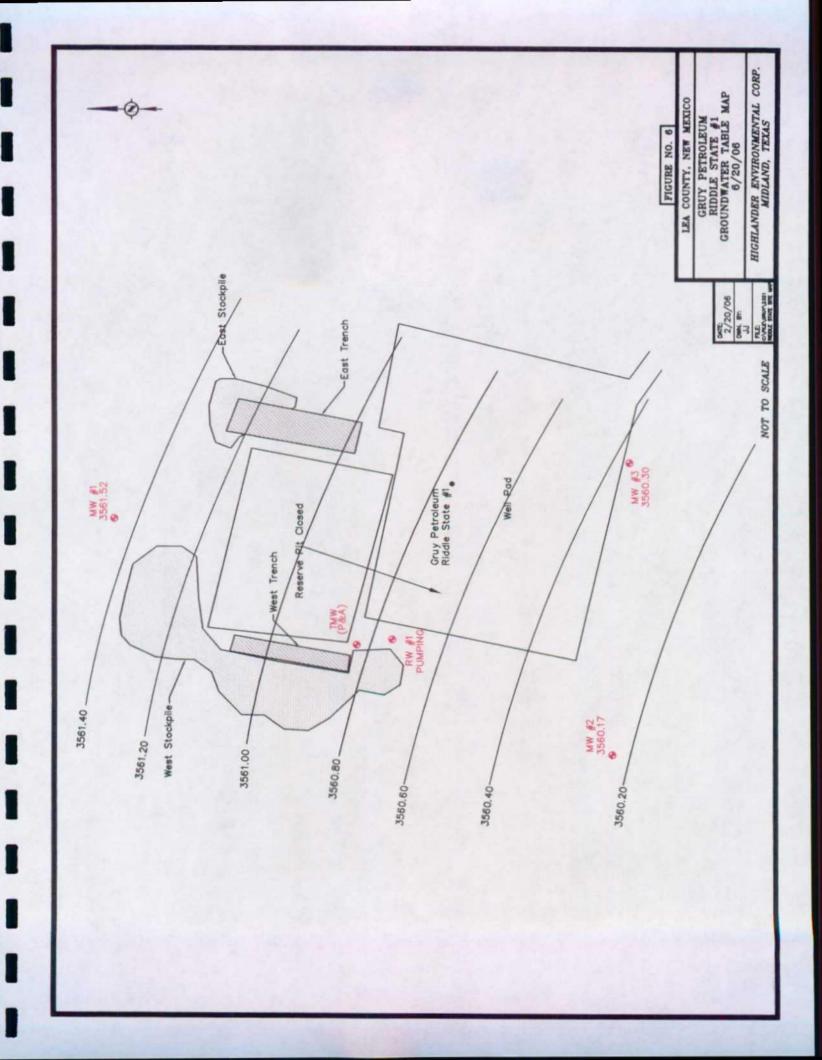


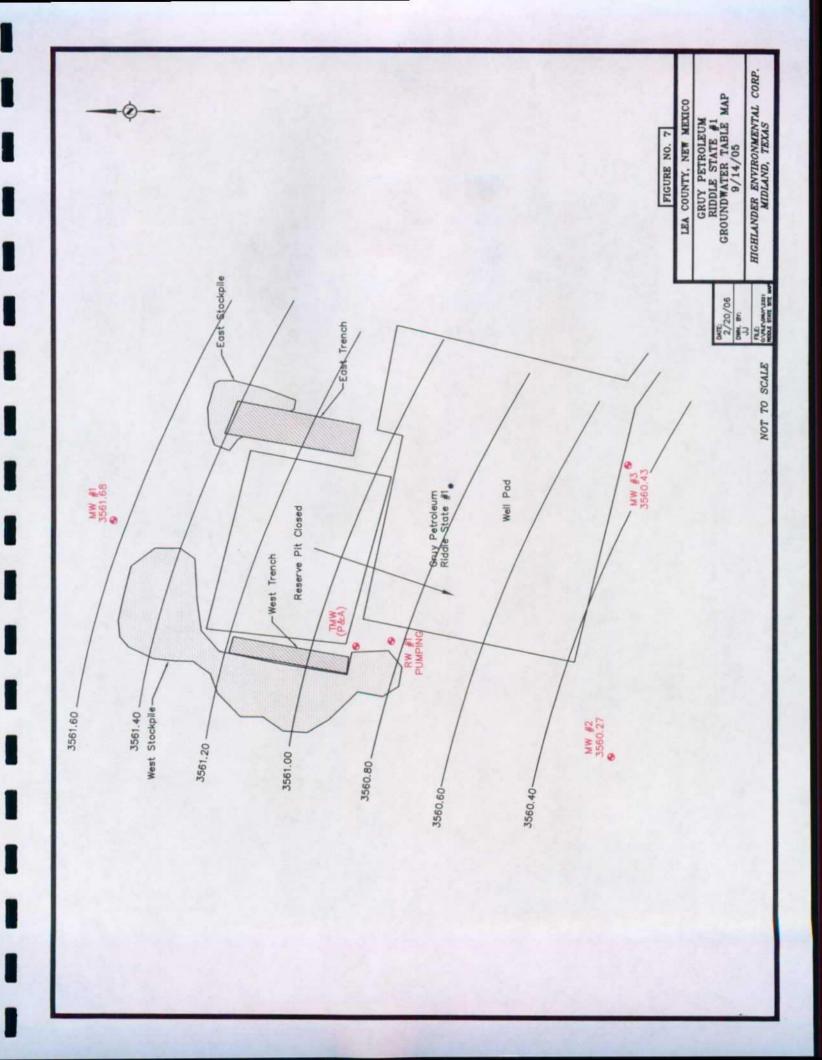












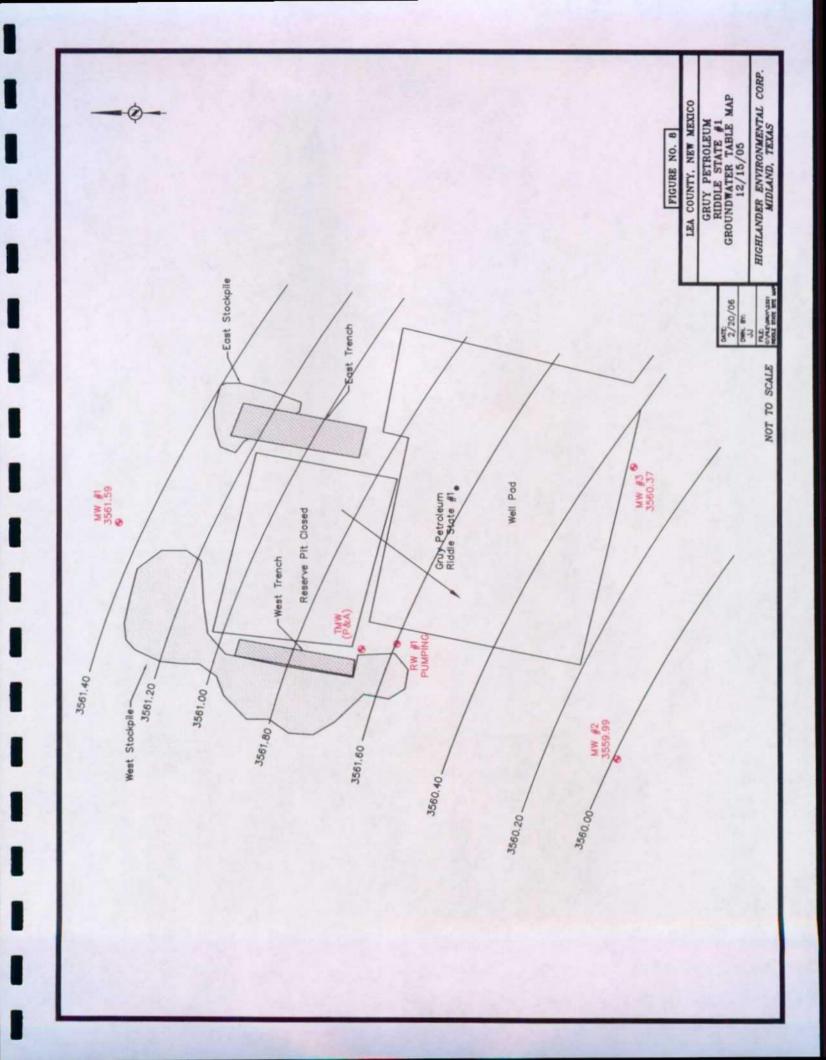


Table 1, Borehole Samples Gruy Petroleum Management Co. Riddle State #1 Lea County, NM

Sample	Date	Sample		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Ω	Sampled	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	03/22/05	1'-3'	1	_	-	-		1	-	44.3
BH-1	03/22/05	5'-7'	1	1		,	-		-	26
BH-1	03/22/05	10'-12'	,	-	-	-	-	1		27.2
BH-2	03/22/05	1'-3'	•		-		ŀ		_	31.5
BH-2	03/22/05	5'-7'		,		•	ı	•	-	27.2
BH-2	03/22/05	10'-12'	,	,	ŧ			1	•	24.5
BH-3	03/22/05	1'-3'		1	1	-	_	_	_	21.6
BH-3	03/22/05	5'-7'		,	•	-	-	-	_	28.7
BH-3	03/22/05	10'-12'	,	,	t	-	-	•	_	30.2
BH-4	03/22/05	1'-3'	,	'	•	1	_	_	_	23
BH-4	03/22/05	5'-7'	1	-	_	_	-	,	_	34.5
BH-4	03/22/05	10'-12'	-	-	-	-	-	1	•	58.5
BH-5	03/22/05	1'-3'	-	1	•	-	-	-	-	8480
BH-5	03/22/05	5'-7'		•	1	-	_	•	-	4070
BH-5	03/22/05	10'-12'		•	1	-	-	-	_	2770
BH-5	03/22/05	15'-17'	ı	ŧ	-	-	_	-	_	2480
BH-5	03/22/05	20'-22'	1	,			•	-	_	3230
BH-5	03/22/05	25'-27'	1	1		-	-	-	•	5640
BH-5	03/22/05	30'-32'	-	-	-	1	-	-	-	4030
BH-5	03/22/05	35'-37'	-	-	_	-	-	•	1	1540
BH-6	03/23/05	1,-3,	•	•	_	-	-	•	-	19800
9-HB	03/23/05	12-15	1	-	1	•	-	•	_	18400
BH-6	03/23/05	10'-12'	-	_	_	-	-	•	-	4540
9-HB	03/23/05	15'-17'	-	-	-	-	•	-	_	881
9-HB	03/23/05	20'-22'	•	-	-		-	•	•	586
BH-6	03/23/05	25'-27'	-	-		1	-	,	•	2390
BH-6	03/23/05	30'-32'	-	•	_	-	•	•	-	723
ВН-6	03/23/05	35'-37'	-	+	_	ı	•	•	1	1360

(-) Not analyzed

Table 1, Borehole Samples Gruy Petroleum Management Co. Riddle State #1 Lea County, NM

Chloride	(mg/kg)	355	417	444	1680	527	828	556	590	8600	11000	0992	0988	098,	8120	2250	797							
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Xylene	(mg/kg)	1	,	1	•	1			٦	ŧ	ı	ı	ı	,		,	,							
Ethlybenzene	(mg/kg)	ı		•			1		-	•	•	-	ı	_		4								
Toluene	(mg/kg)	1	•					1	ı		1		ı	1	,	,								
Benzene	(mg/kg)	ı	1	ı	1	1	-	-	-		-	,	,	•	•	•								
	Total	B	 - 	-	-	1		-	-	-	•	-		1	-	,								
PH (mg/kg	C12-C35	-	1	1	ı	,	,		1		,	,		1	,	,	,							
	C6-C12	,	,	,	,		1	,	,	,	1		1	-	1	,								
Sample	Depth (ft)	1'-3'	5'-7'	10'-12'	15'-17'	20'-22'	25'-27'	30'-32'	35'-37'	1'-3'	5:-7:	10'-12'	15'-17'	20'-22'	25'-27'	30'-32'	35'-37'							
Date	Sampled	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05	03/22/05							
Sample	<u>i</u>	BH-7	BH-7	BH-7	BH-7	BH-7	BH-7	BH-7	BH-7	BH-8														

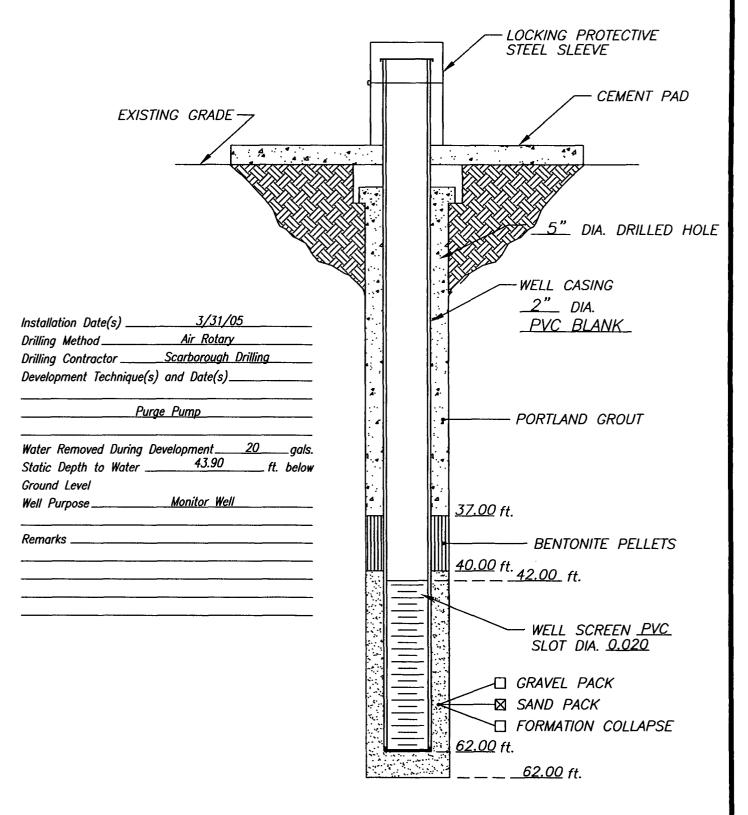
(-) Not analyzed

Table 2, Monitor Wells Gruy Petroleum Management Co. Riddle State #1 Lea County, NM

Sample	Date Sampled	Benzene	Toluene	Ethlybenzene (mg/l)	Xylene (ma/l)	Total Alkaliknity (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
MW-1	03/30/05		NON		ND	149	31.8	260	40.4
	06/20/05	R	S	R	QN N		17.0	257	28.1
	09/14/05	Q	QZ	R	ON.		0.6	•	•
	12/15/05	R	QZ	Ð	QN	_	10.6	1	•
MW-2	03/30/05	QZ	QZ	QN.	QN.	170	8.03	330	81.2
	06/20/05	R	QZ	R	Œ		39.7	350	54.6
	09/14/05	R	Ð	S S	QN	•	34.5	_	1
	12/15/05	QZ	QZ	R	QN	•	19.6		1
MW-3	03/30/05	£	R	R	QZ	169	65.8	422	93.6
	06/20/05	QN	QZ	Q.	QN		57.0	419	85.7
	09/14/05	QN	QX	QX	QN	_	42.6	1	t
	12/15/05	QX	QN	QN	QN	-	54.2	•	ŧ
TMW-1	03/30/05	QZ	QX	QN.	QN	796	14200	24500	3490
RW-1	09/14/05	QZ	QZ	QX	QN N	1	21200	_	•
	12/15/05	QN	QN	QN	ΩN		00881	-	ı
(-) Not analyzed	1	ND Not dete	cted at or a	ot detected at or above the reporting limit	ng limit	- - - - - -			

APPENDIX A

Well Construction Logs



DATE: 3/31/05

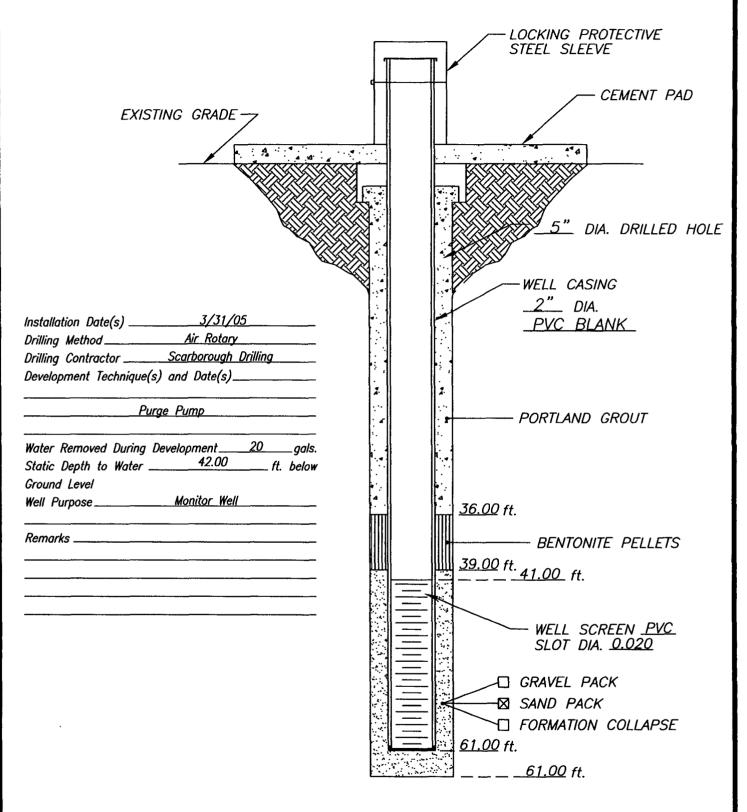
Highlander Environmental CLIENT: Gruy Petroleum Management Company

PROJECT: Riddle State #1

LOCATION: Lea County, New Mexico

WELL NO.

MW-1



DATE: 3/31/05

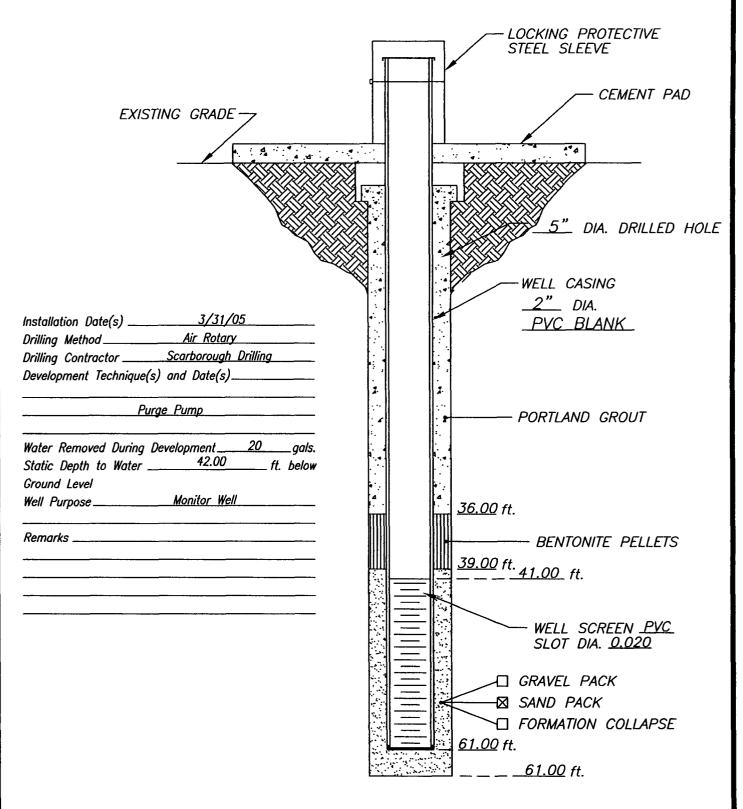
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PROJECT: Riddle State #1

LOCATION: Lea County, New Mexico

WELL NO.

MW-2



DATE: 3/31/05

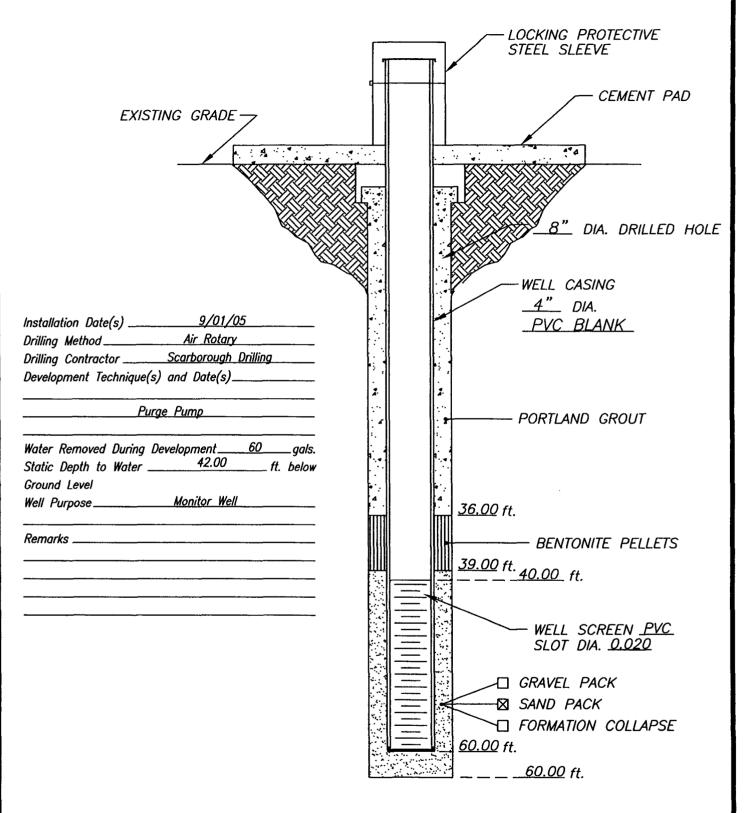
Highlander Environmental CLIENT: Gruy Petroleum Management Company

PROJECT: Riddle State #1

LOCATION: Lea County, New Mexico

WELL NO.

MW-3



DATE: 9/01/05

Highlander Environmental CLIENT: Gruy Petroleum Management Company

PROJECT: Riddle State #1

LOCATION: Lea County, New Mexico

WELL NO.

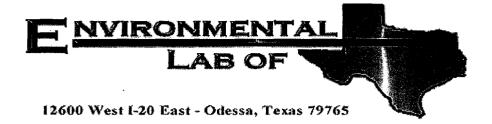
RW-1

APPENDIX B

Analytical Reports

Analytical Report

6/23/2005



Analytical Report

Prepared for:

Tim Reed
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321 Location: None Given

Lab Order Number: 5F21001

Report Date: 06/23/05

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2321

Project Manager: Tim Reed

Reported: 06/23/05 11:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5F21001-01	Water	06/20/05 11:30	06/20/05 16:20
MW-2	5F21001-02	Water	06/20/05 11:50	06/20/05 16:20
MW-3	5F21001-03	Water	06/20/05 12:05	06/20/05 16:20

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 06/23/05 11:37

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

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17.0	2.50	mg/L	5	EF52301	06/22/05	06/22/05	EPA 300.0	
257	5.00	17	i	EF52212	06/22/05	06/23/05	EPA 160.1	
28.1	2.50	"	5	EF52301	06/22/05	06/22/05	EPA 300.0	
39.7	2.50	mg/L	5	EF52301	06/22/05	06/22/05	EPA 300.0	
350	5.00	"	1	EF52212	06/22/05	06/23/05	EPA 160.1	
54.6	2.50	"	5	EF52301	06/22/05	06/22/05	EPA 300.0	
57.0	2.50	mg/L	5	EF52301	06/22/05	06/22/05	EPA 300.0	
419	5.00	11	1	EF52212	06/22/05	06/23/05	EPA 160.1	
85.7	2.50	#	5	EF52301	06/22/05	06/22/05	EPA 300.0	
	17.0 257 28.1 39.7 350 54.6	17.0 2.50 257 5.00 28.1 2.50 39.7 2.50 350 5.00 54.6 2.50 57.0 2.50 419 5.00	17.0 2.50 mg/L 257 5.00 " 28.1 2.50 mg/L 39.7 2.50 mg/L 350 5.00 " 54.6 2.50 " 57.0 2.50 mg/L 419 5.00 "	Result Limit Units Dilution	Result Limit Units Dilution Batch	Result Limit Units Dilution Batch Prepared	Result Limit Units Dilution Batch Prepared Analyzed	Result Limit Units Dilution Batch Prepared Analyzed Method

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2321 Project Manager: Tim Reed Reported: 06/23/05 11:37

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 EF52212 - Filtration Preparation										
Blank (EF52212-BLK1)				Prepared: (06/22/05 A	nalyzed: 06	/23/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF52212-DUP1) Source: 5F16004-04 Prepared: 06/22/05 Analyzed: 06/23/05										
Total Dissolved Solids	277	5.00	mg/L		276			0.362	20	
Batch EF52301 - General Preparation (WetChem)									
Blank (EF52301-BLK1)				Prepared &	Analyzed:	06/22/05				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EF52301-BS1)				Prepared &	Analyzed:	06/22/05				
Sulfate	11.1		mg/L	10.0		111	80-120			
Chloride	11.8		**	10.0		118	80-120			
Calibration Check (EF52301-CCV1)				Prepared &	z Analyzed:	06/22/05				
Sulfate	10.0		mg/L	10.0		100	80-120			
Chloride	10.7		"	10.0		107	80-120			
Duplicate (EF52301-DUP1)	Sour	rce: 5F21001-	01	Prepared 8	z Analyzed:	06/22/05				
Sulfate	25.7	2.50	mg/L		28.1			8.92	20	
Chloride	17.1	2.50			17.0			0.587	20	

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

Reported:
06/23/05 11:37

Project Number: 2321
Project Manager: Tim Reed

Notes and Definitions

DET Analyte DETECTED

Midland TX, 79705

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:

Date:

6/23/2005

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

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist 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.

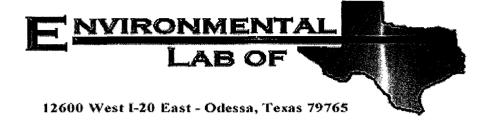
PAGE: (OF: (ANALYSIS REQUEST	'M'	Sootii	- 40 - 40 - 40 - 40	29/0128 129/092 129/092	208 (1.8 m) (1	PLIN (VED- NOTE		×						BANTO DE CHICA & MA CAL Marie - CAROLAS	ft: (Circle) BOB	HAND THETTERED > UPS OTHER.	HIGHLANDER CONTACT PENSON: HIGHLANDER Charges	I'm Keed in the	1000 (8)	mager retains pink copy
and Chain of Custody Record	uiu viuii vi vastat,	ENVIRONMENTAL CORP.	.910 N. Big Spring St. Midland, Texas 79705	Fax (432) 682-3946	WAGER:	t, MW Saupling & CONTA	NOME ICE HACE HACE MORRES NORRES SPENISON	X	MW-2	MW-3				(Laher	a: U/-U/O/ RECEIVED BY: (Signature) Data:	RECEIVED BY: (Dignature)	RECKYED BY. (Mgnature)	Labs of Tenerality 37, (Septema) 100 C	num (0/20/05 mus	MATRIE: A-AIT SID-SOILS HIMARES: 8-501 SIT-SIDES D-Other 700 (QPP)	Return original copy to Algilander Evolumental Carp
Analysis Regulest		HIGHLANDER	1910 N. Midland	4559	CAIGNT NAME: PATO PEUM	vo.: Pregracy	AUMBER DATE THE MATRIX	0511 80/02/	1/50						RELINGUISHED IV. (Safastura) Hates	(RELIEFOUTERIED BY: (Signature) Date:	REINQUISHED BY: (Elgneth	कः स्थापात्रात	CONTROL TEXA OF PROVE 5	SAMPLE CONDITION WHEN RECEIVED:	Please Fill out all copies - Laboratory retains yallow copy

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

Olient: HidMander				
Date/Time: 6/20/05				
rate: Hitte				
Order #: <u>5F2/00</u>				
nitials:				
Sample Receipt	Checkli	st		
Temcerature of container/cooler?	Yes	No	18,0 c	
Shipping container/cooler in good condition?	1 XES)	No		
Custody Seals intact on shipping container/cooler?	Yes	No	ो देशि ब्राह्डकार	
Custody Seals intact on sample bottles?	Yes	No	Not present	•
Chain of custody present?	1 755			
Sample Instructions complete on Chain of Custody?	1,6391	No		
Chain of Custody signed when relinquished and received?	YES	No		
Chain of custody agrees with sample label(s)	Yes	No	inone !	
Container labels legible and intact?	Yes	No	I Wa	
Sample Matrix and properties same as on chain of custody?	1 /500 1	No		
Samcles in proper container/bottle?	1 255	No		
Samoles procerly preserved?	1 253	No		
Sample bottles intact?	1 700	No	1	
Preservations documented on Chain of Custody?	1/5	No	· }	
Containers documented on Chain of Custody?	X35 !	No	!	
Sufficient sample amount for indicated test?	1 750	No	į	
All samples received within sufficient hold time?		No	1	
VCC samples have zero headspace?	ا حقه	No	Not Applicable	
Other observations:				
Variance Docum	mentatio	n:		
Contact Person: - Date/Time: Date/Time:	**************************************		_Contacted by: _	
Corrective Action Taken:				
CONTROL OF THE CONTRO				Partition of the second by the

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Analytical Report 6/28/2005



Analytical Report

Prepared for:

Tim Reed
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321 Location: Lea County, NM

Lab Order Number: 5F22005

Report Date: 06/28/05

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2321

Project Manager: Tim Reed

Reported: 06/28/05 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5F22005-01	Water	06/21/05 14:45	06/22/05 09:00
MW-2	5F22005-02	Water	06/21/05 15:00	06/22/05 09:00
MW-3	5F22005-03	Water	06/21/05 15:10	06/22/05 09:00

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321

Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 06/28/05 14:01

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22005-01) Water									
Benzene	ND	0.00100	mg/L	1	EF52711	06/27/05	06/27/05	EPA 8021B	
Toluene	ND	0.00100	n	"	•	#	"	н	
Ethylbenzene	ND	0.00100	11	R	"	н	"	"	
Xylene (p/m)	ND	0.00100	"	**	н	"	**	tt .	
Xylene (o)	ND	0.00100	**	. "	#1	n	"	11	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-12	20	."	"	"	"	
MW-2 (5F22005-02) Water									
Benzene	ND	0.00100	mg/L	ı	EF52711	06/27/05	06/27/05	EPA 8021B	
Toluene	ND	0,00100	n		**	n	**	ø	
Ethylbenzene	ND	0.00100	Ħ	**	н	Ħ	H .	n	
Xylene (p/m)	ND	0.00100	"	*	н	n	"	H	
Xylene (o)	ND	0.00100	"	"	"		11	и	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-12	20	"	"	**	"	
MW-3 (5F22005-03) Water									
Benzene	ND	0.00100	mg/L	1	EF52711	06/27/05	06/27/05	EPA 8021B	
Toluene	ND	0.00100	**	"	н	Ħ	"	n	
Ethylbenzene	ND	0.00100	н	11		n	11	**	
Xylene (p/m)	ND	0.00100	"	"	11	u	n	**	
Xylene (o)	ND	0.00100	**	n	н	#	"	11	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-12	20	,	n	"	"	~ ~
Surrogate: 4-Bromofluorobenzene		99.5 %	80-12	20	"	"	n	"	

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2321 Project Manager: Tim Reed

Reported: 06/28/05 14:01

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 EF52711 - EPA 5030C (GC)										
Blank (EF52711-BLK1)				Prepared &	Analyzed:	06/27/05				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	,,							
Ethylbenzene	ND	0.00100	**							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	21.7		ug/l	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	19.2		n	20.0	•	96.0	80-120			
LCS (EF52711-BS1)				Prepared &	k Analyzed:	06/27/05				
Benzene	104		ug/l	100	-·· - -	104	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	105		**	100		105	80-120			
Xylene (p/m)	206		н	200		103	80-120			
Xylene (o)	97.9		"	100		97.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	23.8		"	20.0		119	80-120			
LCS Dup (EF52711-BSD1)				Prepared &	& Analyzed:	06/27/05		•		
Benzene .	104	***	ug/l	100		104	80-120	0.00	20	
Toluene	106		**	100		106	80-120	0.948	20	
Ethylbenzene	98,9			100		98.9	80-120	5.98	20	
Xylene (p/m)	207		n	200		104	80-120	0.966	20	
Xylene (o)	93.7		n	100		93.7	80-120	4.38	20	
Surrogate: a,a,a-Trifluorotoluene	23.2	,-	"	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	21.4		"	20.0		107	80-120			
Calibration Check (EF52711-CCV1)	•			Prepared:	06/27/05 A	nalyzed: 06	5/28/05			
Велгене	96.9		ug/l	100		96.9	80-120			
Toluene	98.6		"	100		98.6	80-120			
Ethylbenzene	92.8		**	100		92.8	80-120			
Xylene (p/m)	193		"	200		96.5	80-120			
Xylene (o)	87.5		n	100		87.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.4		"	20.0		107	80-120			
Surrogate: 4-Bromofluorohenzene	20.0		"	20.0		100	80-120			

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Xylene (p/m)

Surrogate: a,a,a-Trifluorotoluene

Surrogate: 4-Bromofluorobenzene

Xylene (o)

Project Number: 2321

Project Manager: Tim Reed

Reported: 06/28/05 14:01

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 EF52711 - EPA 5030C (GC)			,							
Matrix Spike (EF52711-MS1)	Sour	ce: 5F27009-	02	Prepared: (06/27/05 A	nalyzed: 06	/28/05			
Benzene	92.7		ug/l	100	ND	92.7	80-120			
Toluene	91.7		**	100	ND	91.7	80-120			
Ethylbenzene	87.5		"	100	ND	87.5	80-120			

200

100

20.0

20.0

ND

ND

88.5

85.0

100

110

80-120

80-120

80-120

80-120

177

85.0

20.0 22.0

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2321

Project Manager: Tim Reed

Reported: 06/28/05 14:01

Notes and Definitions

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 Khuls

Date:

6/28/2005

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.

Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

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

Goldy Petrokum Projectiname: Project #: Project Loc:

2321

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Lea Co. NA

₩ Od

Fax No:

City/State/Zip:

Telephone No:

Company Name

Project Manager:

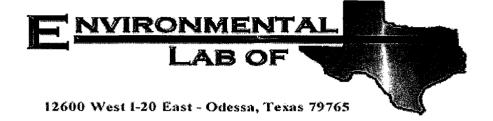
Company Address:

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

Client: Highlander				
Olient: Highlander Date/Time: 6/22/05 9:15				
Order #: <u>5F22005</u>				
Initials:				
Sample Receipt	Checkli	ist		
Temperature of container/cooler?	Yes	No I	4.0 C	
Shipping container/cooler in good condition?	(E23)	No	***************************************	
Custody Seals intact on shipping container/codier?	(P29)	 	Not present	
Custody Seals intact on sample bottles?	(FES	No	Not present	
Chain of custody present?	Yes			
Samcie Instructions complete on Chain of Custody?	(es)	No		
Chain of Custody signed when relinquished and received?	1 Xes, 1	Nc I		
Chain of custody agrees with sample label(s)	Cas	No		
Container labels legible and intact?	(Fes)			
Sample Matrix and properties same as on chain of custody?	(ES)			
Samples in proper container/bottle?	res	No		
Samples properly preserved?	1 Zes			
Sample bottles intact?	(FES)			1
Preservations documented on Chain of Custody?	(3EN)			
Containers documented on Chain of Custody?	(Zes)			
Sufficient sample amount for indicated test?	(Yes)			
All samples received within sufficient hold time?	18	· , , , , , , , , , , , , , , , , , , ,		
VOC samples have zero headspace?	Yas	No	Not Applicable	Ī
Other coservations:				
Variance Docur Contact Person: Date/Time: Regarding:			Centacted by:	
Corrective Action Taken:				
	· ` `			
	**************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Analytical Report 9/28/2005



Analytical Report

Prepared for:

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

Project: Gruy/ Riddle #1
Project Number: 2321
Location: Lea County, NM

Lab Order Number: 5119004

Report Date: 09/28/05

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 09/28/05 15:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5119004-01	Water	09/14/05 10:45	09/16/05 15:45
MW-2	5119004-02	·Water	09/14/05 11:45	09/16/05 15:45
MW-3	5119004-03	Water	09/14/05 12:20	09/16/05 15:45
RW-1	5119004-04	Water	09/14/05 14:00	09/16/05 15:45

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/28/05 15:16

Organics by GC Environmental Lab of Texas

		Reporting						· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5119004-01) Water			·						
Benzene	ND	0.00100	mg/L	1	EI52622	09/26/05	09/26/05	EPA 8021B	
Toluene	ND	0.00100	n	"	"	н	n	n	
Ethylbenzene	ND	0.00100	n	n	"	**	"	"	
Xylene (p/m)	ND	0.00100	n	"	"	H	Ħ	n	
Xylene (o)	ND	0.00100	11	"	"	n	"	n *	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-1	120	"	"	"	n	
MW-2 (5I19004-02) Water		•							
Benzene	ND	0.00100	mg/L	1	E152622	09/26/05	09/26/05	EPA 8021B	
Toluene	ND	0.00100	**	u	11	11	"	n	
Ethylbenzene	ND	0.00100	**	"	Ħ	**	"	n	
Xylene (p/m)	ND	0.00100	41	**	n	**		tt	
Xylene (o)	ND	0.00100	"_		u	"	11	"	
Surrogate: a,a,a-Trifluorotoluene		86.2 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	80-1	120	"	"	n	"	
MW-3 (5I19004-03) Water									
Benzene	ND	0.00100	mg/L	1	EI52622	09/26/05	09/26/05	EPA 8021B	
Toluene	ND	0.00100		11	11	"	11	"	
Ethylbenzene	ND	0.00100	51	"	"	"	*1	"	
Xylene (p/m)	ND	0.00100	**	n	**	н	н	"	
Xylene (o)	ND	0.00100	"	н	, n		"	rt .	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-	120	"	n	u	n	•
Surrogate: 4-Bromofluorobenzene		89.5 %	80-	120	"	"	"	#	
RW-1 (5119004-04) Water									
Benzene	ND	0.00100	mg/L	1	EI52622	09/26/05	09/26/05	EPA 8021B	
Toluene	ND	0.00100	· ·	#	н	**	49	**	
Ethylbenzene	ND	0.00100	"	**	"	n	#	u	
Xylene (p/m)	ND	0.00100	"	ч	55	**	n	'n	
Xylene (o)	ND	0.00100	н	и	"		"	n	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	80-	120	"	"	и.	u	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 09/28/05 15:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5I19004-01) Water					,				
Chloride	9.00	2.50	mg/L	5	EI52001	09/19/05	09/20/05	EPA 300.0	
MW-2 (5I19004-02) Water									
Chloride	34.5	5.00	ıng/L	10	EI52001	09/19/05	09/20/05	EPA 300.0	
MW-3 (5119004-03) Water									
Chloride	42.6	5.00	mg/L	10	E152001	09/19/05	09/20/05	EPA 300.0	
RW-1 (5119004-04) Water									
Chloride	21200	250	mg/L	500	E152001	09/19/05	09/20/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/28/05 15:16

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limít	Notes
	Result	Little	Omis	Devel	Vesuit	/0KEC	Limits	KI D	Linu	inotes
Batch EI52622 - EPA 5030C (GC)										
Blank (EI52622-BLK1)				Prepared &	Analyzed:	09/26/05				
Benzene	ND	0.00100	mg/L							
Toluene	·ND	0.00100	н							
Ethylbenzene	ND	0.00100	"							
Xylene (p/in)	ND	0.00100	*							
Xylene (o)	ND	0.00100	n							
Surrogate: a,a,a-Trifluorotoluene	44.5		ug I	40.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	47.8		"	40.0		120	80-120			
LCS (EI52622-BS1)				Prepared &	: Analyzed:	09/26/05				
Benzene	43.1		ug/l	50.0		86.2	80-120		··	
Toluene	41.6		'n	50.0		83.2	80-120			
Ethylbenzene	49.3		**	50.0		98.6	80-120			
Xylene (p/m)	91.4		"	100		91.4	80-120			
Xylene (o)	52.4		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.0	···········	"	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	42.0		"	40.0		105	80-120			
Calibration Check (EI52622-CCV1)				Prepared: ()9/26/05 A	nalyzed: 09	9/27/05			
Benzene	49.9		ug/l	50.0		99.8	80-120			
Toluene	44.9		n	50.0		89.8	80-120			
Ethylbenzene	50.2			50.0		100	80-120			
Xylene (p/m)	92.4		H	100		92.4	80-120			
Xylene (o)	50.9		**	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		"	40.0		100	0-200	<u> </u>		
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	0-200			
Matrix Spike (EI52622-MS1)	Sou	ırce: 5123008-	07	Prepared: (09/26/05 A	nalyzed: 09	9/27/05			
Benzene	0.0413	0.00100	mg/L	0.0500	ND	82.6	80-120			
Toluene	0.0406	0.00100		0.0500	ND	81.2	80-120			
Ethylbenzene	0,0483	0.00100	"	0.0500	ND	96.6	80-120			
Xylene (p/m)	0.0887	0.00100	Ħ	0.100	ND	88.7	80-120			
Xylene (o)	0.0537	0.00100	"	0.0500	ИD	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.5	•	ug l	40.0		83.8	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

1910 N. Big Spring St. Midland TX, 79705

Surrogate: 4-Bromofluorobenzene

Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/28/05 15:16

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 EI52622 - EPA 5030C (GC)		·								
Matrix Spike Dup (EI52622-MSD1)	Sour	Prepared: 0	9/26/05 A	nalyzed: 09	/27/05					
Benzene	0.0461	0.00100	mg/L	0.0500	ND	92.2	80-120	11.0	20	
Toluene	0.0448	0.00100	51	0.0500	ND	89.6	80-120	9.84	20	
Ethylbenzene	0.0553	0.00100		0.0500	ND	111	80-120	13.9	20	
Xylene (p/m)	0.0985	0.00100	*	0.100	ND	98.5	80-120	10.5	20	
Xylene (o)	0.0572	0.00100	"	0.0500	ND	114	80-120	6.33	20	
Surrogate: a,a,a-Trifluorotoluene	34.5		ug l	40.0		86.2	80-120			

40.0

117

80-120

46.8

Project: Gruy/ Riddle #1

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2321

Project Manager: Ike Tavarez

Reported: 09/28/05 15:16

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 EI52001 - General Preparation (W	/etChem)									
Blank (EI52001-BLK1)				Prepared: (09/19/05 A	nalyzed: 09	/20/05			
Chloride	ND	0.500	ıng/L							
LCS (EI52001-BS1)				Prepared: (09/19/05 A	nalyzed: 09	/20/05			
Chloride	8.10		mg/L	0.01		81.0	80-120			
Calibration Check (EI52001-CCV1)				Prepared: (09/19/05 A	nalyzed: 09	/20/05			
Chloride	10.2		mg/L	10.0		102	80-120			
Duplicate (EI52001-DUP1)	Sour	rce: 5I19003-0)1	Prepared: (09/19/05 A	nalyzed: 09	/20/05			
Chloride	154	5,00	mg/L		151			1.97	20	

Midland TX, 79705

Project: Gruy/ Riddle #1

Fax: (432) 682-3946

1910 N. Big Spring St.

Project Number: 2321 Project Manager: Ike Tavarez

Reported: 09/28/05 15:16

Notes and Definitions

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

dry Sample results reported on a dry weight basis

Relative Percent Difference RPD

LCS Laboratory Control Spike

MS Matrix Spike

Duplicate Dup

enort Annroved Rv	Raland	KJul

Date:

9/28/2005

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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Analysis Reduest al	4	HIGHLANDER E	1910 N. Midland	(432) 682-4559	CLIENT NAME: 6 fuy	PROJECT NO.: 2321 PROJECT NAME.	NUMBER DATE THE SAME.	9/14/05/10:45	WIND WAY		54 9/14612:00 V 1/1 W			000	RELIGIOUS (Augusture) Date:	RELINQUISHED BY: (Signature) Date:	RELINGUISHED BY: (Signature) Date:	RECEIVING LABORATORY: ELL	CONT. O COSTA. STATE. T	V WHEN RECEIVED:
and Chain of Custody	die 7 julie de 1 julie	MIAL	1910 N. Big Spring St. Midland. Texas 79705	Fax	STTE MANAGER: Ike Tavapel	iddle #1	Leg Conty, WM SAMPLE IDENTIFICATION			- 3				1111111	HECHINED BY: (Signature)	RECEIVED BY: (Signature)	HECEVED HY: (Signeture)	RECEIVED BY (Signifure)	m. a/14/05	MATRIX: (F-rate) A-Air ED-Saild S-Sail S-Saild
y Kecord		330		(432) 682-3946	PRESERVATIVE METHOD	(N/A	MEE BOSO NONE ICE HACE HCT MILLERD (I	3/WX X X	3 N X X X	3 X X X	3/MX X X				Nate:	Deter Times	Dete:	J. A. J.	\$ 5:4S	REMARKS:
ANALYSIS REQUEST	(Circle or Specify Hethod	e8 e8	BH Ad BH Ad 900 DKL	40 I	29/0988	908/4 10A T 1/0739 11/0749 11/	0808 EGTN 914 EFT 0758 HAT								May Tentor Poll Sol	BY: (Chrole) BUS		HIGHLANDER CONTACT PERSON:	The lawren	
	d No.)			•	s, Culor	pH, 173; co. (Ah)		X	><	×	×				Time Zick	AIRBIL #	OTHER:	RUSS CHARGES	Authorised: Yes No	

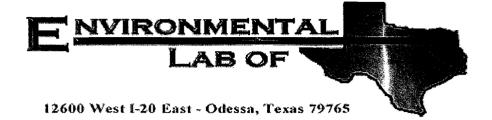
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Highlander		-			
Date/Time: 9/16/05 3:45		,			
Order #: 5T_19004			•		
Order #. SIL-T 1004					• .
Initials:		•			
	~ 1	. 4			
Sample Receipt			AL True		
Temperature of container/cooler?	Yes	No	<u> 3.0</u>	<u>C</u>	
Shipping container/cooler in good condition?	Yes	No	N = 1 = = = = =		
Custody Seals intact on shipping container/cooler?		No	Not preser		
Custody Seals intact on sample bottles?	Xes	No	Not preser	1	
Chain of custody present?	Yes	No			
Sample Instructions complete on Chain of Custody?	Y.Es	No			
Chain of Custody signed when relinquished and received?	४€8	No			
Chain of custody agrees with sample label(s)	¥25s	No			
Container labels legible and intact?	1830	No			
Sample Matrix and properties same as on chain of custody?	1 (88)	No	<u> </u>		
Samples in proper container/bottle?	1 (ES)	No			
Samples properly preserved?	· Kes	No			
Sample bottles intact?	Yes	No			
Preservations documented on Chain of Custody?	Yes,	No			
Containers documented on Chain of Custody?	VES	No			
Sufficient sample amount for indicated test?	<u> </u>	No			
All samples received within sufficient hold time?	Yes	No			
VOC samples have zero headspace?	। (res)	No	Not Applica	ole	
Other observations:					
Variance Docu	mentatio	3 17 :			
Contact Person: Date/Time:			Contacted	hv:	
Regarding:		~ · · · · · · · · · · · · · · · · · · ·	Oomacied	ъу	~~~~
Negarding.			•		
		······			
	·····			-	
Corrective Action Taken:		·*************************************			
- Condition Tanon					
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Analytical Report

12/27/2005



Analytical Report

Prepared for:

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

Project: Gruy/ Riddle #1
Project Number: 2321
Location: Lea County, NM

Lab Order Number: 5L16003

Report Date: 12/27/05

1910 N. Big Spring St.

Midland TX, 79705

Project: Gruy/ Riddle #1

Project Number: 2321

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 12/27/05 09:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5L16003-01	Water	12/15/05 10:45	12/15/05 17:15
MW-2	5L16003-02	Water	12/15/05 11:30	12/15/05 17:15
MW-3	5L16003-03	Water	12/15/05 12:30	12/15/05 17:15
RW-1	5L16003-04	Water	12/15/05 12:45	12/15/05 17:15

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 12/27/05 09:36

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5L16003-01) Water									
Benzene	ND	0.00100	mg/L	1	EL52003	12/20/05	12/21/05	EPA 8021B	
Toluene	ND	0.00100	"	**	"	"	"		
Ethylbenzene	ND	0.00100	н	**	"	"	11	11	
Xylene (p/m)	ND	0.00100	"	"	п	"	"	w	
Xylene (o)	ND	0.00100	H	n	"	"	"		
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-1	20	"	"	"	"	
MW-2 (5L16003-02) Water			_						
Benzene	ND	0.00100	ıng/L	1	EL52003	12/20/05	12/21/05	EPA 8021B	_
Toluene	ND	0.00100	u	"	H	п	. "	tt	
Ethylbenzene	ND	0.00100	11	**	Ħ	ų	tt	H	
Xylene (p/m)	ND	0.00100	u	"	**	n	**	rt .	
Xylene (o)	ND	0.00100	н	11	tt	u	n .	16	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-1	20	"	"	"	"	
MW-3 (5L16003-03) Water			_			-			
Benzene	ND	0.00100	mg/L	1	EL52003	12/20/05	12/21/05	EPA 8021B	
Toluene	ND	0.00100	"	n	u	п	u	"	
Ethylbenzene	ND	0.00100	l+	"	"	11		"	
Xylene (p/m)	ND	0.00100	**	**	11		11	u	
Xylene (o)	ND	0.00100	11	"	"	н	**	**	
Surrogate: a,a,a-Trifluorotoluene		85.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	80-1	20	"	"	"	"	
RW-1 (5L16003-04) Water									
Benzene	ND	0.00100	mg/L	1	EL52003	12/20/05	12/21/05	EPA 8021B	
Toluene	ND	0.00100	"	11	•	n	n	•	
Ethylbenzene	ND	0.00100	**	11	"	**	"	11	
Xylene (p/m)	ND	0.00100	"		11		u	11	
Xylene (o)	ND	0.00100	m	н			Ħ	n	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-1	120	"	,,	"	"	

Project: Gruy/ Riddle #1

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2321 Project Manager: Ike Tavarez

Reported: 12/27/05 09:36

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

		Reporting		·			***		····
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5L16003-01) Water								· · · · · · · · · · · · · · · · · · ·	
Chloride	10,6	2.50	mg/L	5	EL52019	12/20/05	12/20/05	EPA 300.0	
MW-2 (5L16003-02) Water									
Chloride	19.6	2.50	mg/L	5	EL52019	12/20/05	12/20/05	EPA 300.0	
MW-3 (5L16003-03) Water			_				·		
Chloride	54.2	5.00	mg/L	10	EL52019	12/20/05	12/20/05	EPA 300.0	<u> </u>
RW-1 (5L16003-04) Water									
Chloride	18800	250	mg/L	500	EL52019	12/20/05	12/20/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 12/27/05 09:36

Organics by GC - Quality Control Environmental Lab of Texas

	B 1:	Reporting	1 to the	Spike	Source	0/ DEC	%REC	DDD	RPD	Mari			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch EL52003 - EPA 5030C (GC)													
Blank (EL52003-BLK1)	Prepared: 12/20/05 Analyzed: 12/21/05												
Benzene	ND	0.00100	ing/L										
Toluene	ND	0.00100	"										
Ethylbenzene	ND	0.00100	11										
Xylene (p/m)	ND	0.00100	**										
Xylene (o)	ND	0.00100	11										
Surrogate: a,a,a-Trifluorotoluene	33.8	1	ug I	40.0		84.5	80-120						
Surrogate: 4-Bromofluorobenzene	35.2		"	40.0		88.0	80-120						
LCS (EL52003-BS1)				Prepared: 1	2/20/05 A	nalyzed: 12	2/22/05						
Benzene	0.0416	0.00100	mg/L	0.0500	·/	83.2	80-120						
Toluene	0.0484	0.00100	"	0.0500		96.8	80-120						
Ethylbenzene	0.0478	0.00100	"	0.0500		95.6	80-120						
Xylene (p/m)	0.0985	0.00100	"	0.100		98.5	80-120						
Xylene (o)	0.0483	0.00100	"	0.0500		96.6	80-120						
Surrogate: a,a,a-Trifluorotoluene	38.5		ug·l	40.0		96.2	80-120						
Surrogate: 4-Bromofluorobenzene	33.0		"	40.0		82.5	80-120						
Calibration Check (EL52003-CCV1)				Prepared: 1	12/20/05 A	nalyzed: 12	2/21/05						
Benzene	48.8		ug/l	50,0		97.6	80-120						
Toluene	53.4		**	50.0		107	80-120						
Ethylbenzene	49.7		n	50.0		99.4	80-120						
Xylene (p/m)	99.5		н	100		99.5	80-120						
Xylene (o)	50.4		n	50.0		101	80-120						
Surrogate: a,a,a-Trifluorotoluene	32.9		"	40.0		82.2	80-120						
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120						
Matrix Spike (EL52003-MS1)	Sou	ırce: 5L16003-	-01	Prepared: 1	12/20/05 A	nalyzed: 12	2/21/05						
Benzene	0.0448	0.00100	mg/L	0.0500	ND	89.6	80-120						
Toluene	0.0568	0.00100	11	0.0500	ND.	114	80-120						
Ethylbenzene	0.0577	0.00100	"	0.0500	NĐ	115	80-120						
Xylene (p/in)	0.119	0.00100	**	0.100	ND	119	80-120						
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120						
Surrogate: a,a,a-Trifluorotoluene	39.7		ug I	40.0		99.2	80-120						
Surrogate: 4-Bromofluorohenzene	37.0		"	40.0		92.5	80-120						

1910 N. Big Spring St. Midland TX, 79705 Project: Gruy/ Riddle #1

Project Number: 2321 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 12/27/05 09:36

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 EL52003 - EPA 5030C (GC)		· · · · ·								
Matrix Spike Dup (EL52003-MSD1)	Sour	rce: 5L16003-	01	Prepared: 1	2/20/05 A	nalyzed: 12	/22/05			
Benzene	0.0436	0.00100	ıng/L	0.0500	ND	87.2	80-120	2.71	20	
Toluene	0.0535	0.00100	11	0.0500	ND	107	80-120	6.33	20	
Ethylbenzene	0.0559	0.00100	**	0.0500	ND	112	80-120	2.64	20	
Xylene (p/m)	0.115	0.00100	"	0.100	ND	115	80-120	3.42	20	
Xylene (o)	0.0575	0.00100	"	0.0500	ND	115	80-120	1.72	20	
Surrogate: a,a,a-Trifluorotoluene	37.6		ug·l	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Project: Gruy/ Riddle #1

Fax: (432) 682-3946

1910 N. Big Spring St.

Project Number: 2321

Reported: 12/27/05 09:36

Midland TX, 79705 Project Manager: Ike Tavarez

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 EL52019 - General Preparation (V	WetChem)									
Blank (EL52019-BLK1)				Prepared &	k Analyzed	: 12/20/05				
Chloride	ND	0.500	mg/L							
LCS (EL52019-BS1)				Prepared &	k Analyzed	: 12/20/05				
Chloride	8.34		ıng/L	10.0		83.4	80-120			
Calibration Check (EL52019-CCV1)				Prepared &	k Analyzed:	: 12/20/05				
Chloride	8.36		mg/L	10.0		83.6	80-120			
Duplicate (EL52019-DUP1)	Sou	ırce: 5L19006-	-01	Prepared &	k Analyzed	: 12/20/05				
Chloride	1680	25.0	mg/L		1650			1.80	20	

Project: Gruy/ Riddle #1

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2321 Project Manager: Ike Tavarez

Reported: 12/27/05 09:36

Notes and Definitions

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 Khul

Date:

12/27/2005

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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i AUB.	ANALYSIS REQUEST	(Circle or Specify Method			श्च र	94 3 F	2900/82 88 CC	HOR/A TOA T B/OTAS THATOA SSE SY SY S SY ST SY ST SOS	LCB, BOBO CCTR 2000 CCTR 2000 CCTR 2000 LCT 2000 LCT 2000 LCT NORTH		X	X	×					Suprise or (Print & Sign)	SAMPLE SHIPPED BY: (Circle)	CHAND DELIVERED UPS	ENGHANDER CONTACT PERSON:	- The Taratez	I	s label (scal
ていこくのユ らてく	ous second		ころこ		Fax (442) 682-3946	7777		ZX :	NONR FILAGO HCI' ∧o∀ BLUMBEN OL NOMBEN OL	X X X	N X X	3/V/X X	3 lw K K					Date: Time:	Deter.	Date;	Tima:	5:15	FE	
	TOTAL OF CHARGES	A PEST BLED BY B C CANAL	EN VIKONMEN TAL	Big Spring St.	79705	7 (SITE MANAGER: IKE Tava162	ie state #1	County INM SAMPLE DENTIFICATION		7	3				Arterior de la composito de la composito de la composito de la composito de la composito de la composito de la		RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	HETERRED HP. Kelenaturah o	(1) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	JI .	9-504 BL-201269
	ゴロボー かいごしゅ と	1		1910 N.	Midland, Texas		55	FROIECT NAME. WHILE State #	XINTAN PAGE HARE)		UNNIN	- 38K 5					Date:	Date:	Deter	Time:	15		
	Analysis re		HGHLANDER			(432) 682-4559	CLIENT NAME: 6 ray	реальст ио.: 232 <i>I</i>	DATE TIME	- 4 10/15/9/10/145 W		-C2 12/15/12:36 W	24: CIRBA 7121				The state of the s	Kerning ((articles)	REINQUISHED BY: (Signatura)	DECEMBERED BY (SPERSIUS)		ADDINESS: D 40554 ST	CONTACT: PHONE: PHONE: PHONE: SAMPLE CONDITION WHEN RECEIVED:	

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

Client: Highlander				
Client: <u>Higwander</u> Date/Time: <u>12 15/05 5:15</u>				
Order#: 5L16003				
Initials:				
Sample Receipt C	heckli	st		
Temperature of container/cooler?	Yes	No	5.0	5 1
Shipping container/cooler in good condition?	(FES)	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	(25)	No	Not present	
Chain of custody present?	1200	No		
Sample Instructions complete on Chain of Custody?	Yes 1	No		1
Chain of Custody signed when relinquished and received?	Xes	No		
Chain of custody agrees with sample label(s)	Yes, I	No		!
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	Yes,	No		}
Samples in procer container/bottle?	1 758	No	•	
Samples properly preserved?	Yes	No	<u> </u>	:
Sample bottles intact?	X.ess	No		
Preservations documented on Chain of Custody?	1 7.98	No		
Containers documented on Chain of Custody?	Yes	No		1
Sufficient sample amount for indicated test?	1 Xes	No	1	Manufacturers
All samples received within sufficient hold time?	Yes	No	his Assissin	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	
Other observations:				
Variance Docum	entatio	on:		
Contact Person: Date/Time:			Contacted by	
Regarding:			_ odnicoled by	
				** ***********************************
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		***************************************	***************************************	
Corrective Action Taken:				
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