

Southeast Lusk 34 Federal #6

Unit A, Section 34, T19S, R32E



Sampling initial release, facing north

7/27/2012



Sampling initial release, facing south

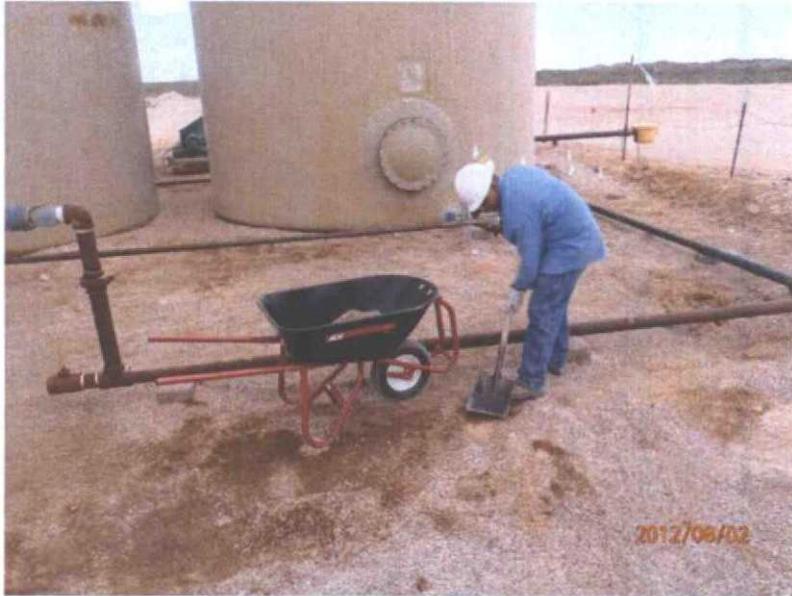
7/27/2012

10/5

APACHE

1 RP - 2820

2820



Excavating leak, facing east

8/2/2012



Excavation after shoveling, facing north

8/3/2012



Excavation after shoveling, facing north

8/6/2012



Excavating, facing south

9/26/2012



Excavating, facing west

9/27/2012



Final excavation, facing north

9/27/2012



Final excavation, facing west

9/27/2012



Final excavation, facing east

9/27/2012

October 04, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: S. E. LUSK 34 FEDERAL #6 AD

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

10/5

Analytical Results For:

 APACHE - EUNICE
 NATALIE GLADDEN
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 10/01/2012
 Reported: 10/04/2012
 Project Name: S. E. LUSK 34 FEDERAL #6 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5 PT. BTM COMP @ 2' (H202384-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	10/03/2012	ND	384	96.0	400	4.08		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/03/2012	ND	188	94.2	200	4.31		
DRO >C10-C28	<10.0	10.0	10/03/2012	ND	190	95.0	200	5.79		

Surrogate: 1-Chlorooctane 92.0% 65.2-140

Surrogate: 1-Chlorooctadecane 91.1% 63.6-154

Sample ID: IMPORTED SOIL (H202384-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/03/2012	ND	384	96.0	400	4.08		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/04/2012	ND	188	94.2	200	4.31		
DRO >C10-C28	<10.0	10.0	10/04/2012	ND	190	95.0	200	5.79		

Surrogate: 1-Chlorooctane 73.5% 65.2-140

Surrogate: 1-Chlorooctadecane 71.4% 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RICE Apache Corp</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Natalie Gibson</u>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																	
Address:		Company:																								
City: State: NM Zip: 88240		Attn:																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name: <u>S.E. Lusk 34 Federal #6 A.O.</u>		State: Zip:																								
Project Location:		Phone #:																								
Sampler Name: <u>Dusted Horns</u>		Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME												
<u>H202384</u>																										
<u>1</u>	<u>S.E. Lusk Composite 3</u>	<u>C</u>	<u>1</u>			<input checked="" type="checkbox"/>							<u>7-27-12</u>	<u>3:04</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<u>2</u>	<u>Impacted Soil</u>	<u>B</u>	<u>1</u>			<input checked="" type="checkbox"/>							<u>7-28-12</u>	<u>10:37</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

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Relinquished By: <u>[Signature]</u>	Date: <u>7/27/12</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Date: <u>10/11/12</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: <u>2:10</u>	Time: <u>10:20</u>	REMARKS: <u>email results Natalie.Gibson@ApacheCorp.com</u>	
	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>ATN</u>	Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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