1R - 427-339

REPORTS

DATE:

3-23-11

1R427-339

EME Jct. E-33-1

2010

CLOSURE

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Eunice Monument Eumont (EME)	Jct. E-33-1	E	33	19S	37E	Lea	Eliminated		

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Joe Ray Williams OTHER ___

Depth to Groundwater 31 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 7/26/2010 Date Completed 7/26/2010 OCD Witness no

Soil Excavated 0.0 cubic yards Excavation Length 0 Width 0 Depth 0 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: **Sample Date** 7/26/2010 **Sample Depth** 8 ft

TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
Source @ 8'	0.9	<10.0	<10.0	112

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
Soil bore at former junction box (source)	1'	143
	2'	213
	3'	174
	4'	136
	5'	185
	6'	146
	7'	157
	8'	138

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the junction box was removed, an investigation conducted with a soil bore due to the inability to excavate through the rock formation. Chloride field test were performed on each sample taken at regular intervals, which yielded low concentrations. Organic vapors were measured using a PID, which yielded low concentrations. The deepest sample, 8 ft. BGS, was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of each. The entire bore hole was plugged with bentonite to ground surface. The site was not seeded due to the vegetation at the location was intact.

enclosures: photos, soil bore log, lab results, PID (field) screenings, chloride curve

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Jordan Woodfin SIGNATURE Jordan Woodfin COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-23-11

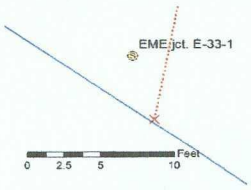
EME Jct. E-33-1

Unit E, Section 33, T19S, R37E

Drilling Soil bore 7/26/2010

Soil Bore plugged with bentonite 7/26/2010

Logger:	Lara Weinheimer
Driller:	Harrison & Cooper
Consultant:	RECS
Drilling Method	Air Rotary
Start Date:	7/26/2010
End Date:	7/26/2010



Project Name: EME jct. E-33-1 **Well ID:** SB-1

Location: UL/E sec. 33 T19S R37E
Lat: N 32°37'0.407" **County:** Lea
Long: W 103°15'52.78" **State:** NM

Comments: All samples from cuttings. Located at source of the former junction box site.

Drafted by: Lara Weinheimer

TD = 8 ft Estimated depth to GW = 31 ft

Depth (feet)	chloride field tests	LAB	PID	Description
				Dark brown very fine sand with caliche. Dry. No odor
1 ft	143		1.8	
2 ft	213		1.7	
				Tan to black caliche and chert. Dry. Slight hydrocarbon odor
3 ft	174		1.9	
4 ft	136		3.5	
5 ft	185		1.3	
6 ft	146		2.6	
7 ft	157		1.3	
8 ft	138	Cl- 112	0.9	
		GRO < 10		
		DRO < 10		

Lithology

Well Construction

bentonite seal

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
112 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 07/27/10
Reporting Date: 07/28/10
Project Number: NOT GIVEN
Project Name: EME JCT. E-33-1
Project Location: EME JCT. E-33-1

Sampling Date: 07/26/10
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: AB/HM

LAB NUMBER SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE	07/28/10	07/28/10	07/27/10
H20423-1** SOURCE GRAB @ 8'	<10.0	<10.0	112
Quality Control	459	451	520
True Value QC	500	500	500
% Recovery	91.8	90.2	104
Relative Percent Difference	1.2	0.5	3.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB
*Analyses performed on 1:4 w:v aqueous extracts.
Reported on wet weight.
**One or more TPH surrogates outside historical limits due to matrix interference.

Chemist

07/28/10
Date

COPY

H20423 TCL RICE

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

		BILL TO	
Company Name:	Rice Operating Company	P.O. #:	
Project Manager:	Hack Conder	Company:	
Address:	122 West Taylor	Attn:	
City:	Hobbs	State: NM Zip: 88240	Address:
Phone #:	393-9174	Fax #: 397-1471	City:
Project #:		Project Owner:	State: Zip:
Project Name:	EME jct. E-33-1		Phone #:
Project Location:	EME jct E-33-1		Fax #:
Sampler Name:	L. Weinheimer		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS					
H20423-1	source grab @ 8'	G	1			✓					✓		7-26-10	12:47	✓	✓									

COPY

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7-26-10	Received By:	Phone Result:	☐ Yes	☑ No Add'l Phone #:
L. Weinheimer	Time: 5:02		Fax Result:	☐ Yes	☑ No Add'l Fax #:
Relinquished By:	Date: 7/27/10	Received By: Jodi Henson	REMARKS: email results		
	Time: 7:55		Hconder@riceswd.com; kjones@riceswd.com		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	Lweinheimer@rice-ecs.com		
Sampler - UPS - Bus - Other:	Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	(Initials) CHW			

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

#26

RUSH

RICE OPERATING COMPANY

122 West Taylor ~ Hobbs, NM 88240
PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK MODEL NO.	
MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7300	SERIAL NO: 590-000~~504~~ 505
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-02920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 93D137	EXPIRATION DATE: 4-28-13
FILL DATE:	METER READING ACCURACY: 100 ppm

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
EME	Jct E-33-1	E	33	T19S	R37E

SAMPLE ID: Soil Core #1

DEPTH	PID	DEPTH	PID	DEPTH	PID	DEPTH	PID
1'	1.8						
2'	1.7						
3'	1.9						
4'	3.5						
5'	1.3						
6'	2.6						
7'	1.3						
8'	0.9						

I verify that I have calibrated the above instrument in accordance to the manufacture's operation manual.

Signature _____ Date 7-26-10

SITE MAP

N

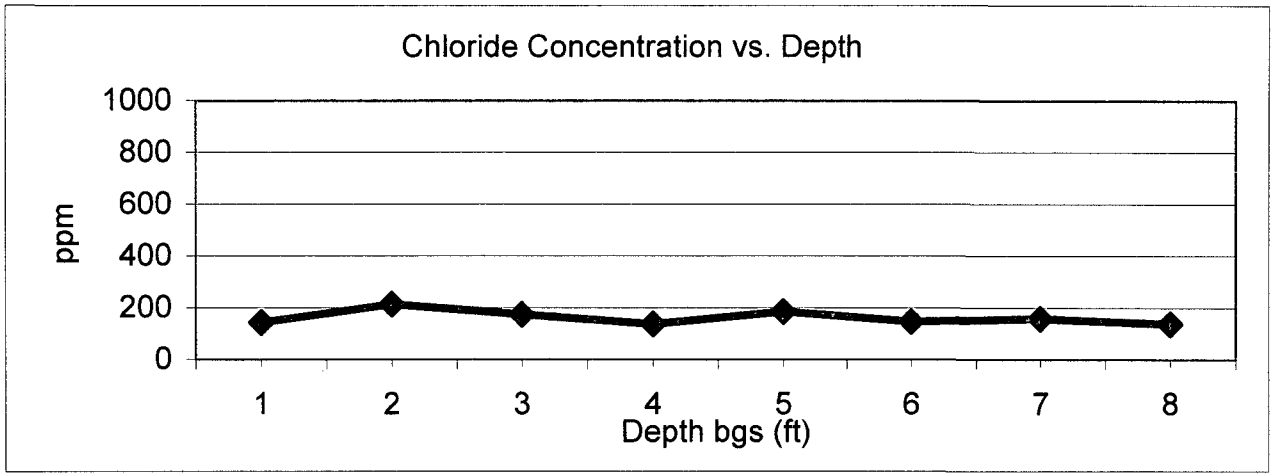
COPY

EME Jct. E-33-1

Unit 'E', Sec. 33, T19S, R37E

Soil Bore at junction (source)

Depth bgs (ft)	[Cl⁻] ppm
1	143
2	213
3	174
4	136
5	185
6	146
7	157
8	138



Groundwater = 31 ft.