1R - 427-254

APPROVALS

& 11.12.13 REQUEST

YEAR(S):

2013 4

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Tuesday, April 01, 2014 9:23 AM
To: 'Hack Conder (hconder@riceswd.com)'
Cc: kjones@riceswd.com
Subject: Approved Termination Request (1R-427-254) - EME Jct. I-1

Importance: High

Termination Request Approved
for the EME Jct. I-1 (1R427-254)
Unit Letter I Section 1, T20S, R37E, NMPM, Lea County, New Mexico

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received RICE Environmental 's Request to terminate the above-referenced site, dated November 12, 2013. The termination request is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Environmental has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R-427-254) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3492.

Leonard Lowe
Environmental Engineer
[Environmental Bureau]
Oil **C**onservation **D**ivision/**E**nergy **M**inerals and **N**atural **R**esources **D**epartment
1220 South St. Frances
Santa Fe, New Mexico 87004
Office: 505-476-3492
E-mail: leonard.lowe@state.nm.us

D.3

Rice Environmental Consulting & Safety
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

CERTIFIED MAIL
RETURN RECEIPT NO. 7007 2560 0000 4569 9019

November 12, 2013

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

RE: Termination Request
EME Jct. I-1 (1R427-254): UL/I, Sec. 1, T20S, R37E
RICE Operating Company – Eunice Monument Eumont (EME) SWD System

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the EME Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background
In 2008, ROC initiated work on the former I-1 junction box. The site is located in UL I, Sec. 1, T20S, R37E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 55 +/- feet. However, soil bore installation activities performed at the site showed that there is no groundwater located beneath the site. The site was delineated using a backhoe to form a 5x3x15-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides and screened for TPH, resulting in chloride concentrations that decreased with depth. The 15 ft sample was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 352 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limit. The excavation was backfilled with the excavated soil and capped with clean blow sand to ground surface and contoured to the surrounding area. On 9/29/2008, the site was seeded with a blend of native vegetation. A junction box is no longer needed at this site.

To further investigate the depth of the chloride and TPH presence, a soil boring was initiated on 9/27/2013 at 6 ft west of the former junction box. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons at regular intervals. The 15-ft, 20-ft and 25-ft samples were taken to a commercial laboratory for analysis of chloride and TPH. The 15-ft resulted in a chloride concentration of 416 mg/kg concentrations of GRO and DRO below detectable limits. The 20-ft sample resulted in a chloride concentration of 464 mg/kg

Rice Environmental Consulting & Safety
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

concentrations of GRO and DRO below detectable limits. The 25-ft sample resulted in a chloride concentration of 304 mg/kg concentrations of GRO and DRO below detectable limits.

Red bed clay was encountered at 27 ft bgs which indicated the bottom of the aquifer. Since no groundwater was encountered, the bore was advanced to 32 ft bgs and packed open for 48 hours to allow any possible groundwater to accumulate. On October 4th, 2013, Arc Environmental was on site to gauge the bore for groundwater accumulation. They found no water in the bore. The entire bore hole was plugged with bentonite to ground surface.

Since there is no groundwater at the site, the former junction box will in no way contribute to the degradation of groundwater. Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone.

The junction box site location map, area map, final report, photodocumentation, chloride graph, laboratory analysis, PID sheet, soil bore plat, log, soil bore installation laboratory analysis, PID sheet, letter of no groundwater and current photodocumentation are attached.

Recommendations
Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,

L Flores

Laura Flores
Project Manager
RECS

enclosures

Site and Area Maps

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

SITE MAP

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC

RECS

EME Jct. I-1

1R427-254
UL/I Sec. 1
T20S-R37E

N
W
E
S

0 10 20
Feet

Drawing date: 10/22/2013 JS

AREA MAP

RICE ENVIRONMENTAL RECS CONSULTING & SAFETY, LLC

EME Jct. I-1

1R427-254
UL/I
Sec. 1-T20S-R37E

N W E S

0 10 20
Feet

Drawing date: 10/22/2013 JS

Junction Box Report

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length 6'	Width 4'	Depth 4'
Eunice Monument Eumont (EME)	Jct. I-1	I	1	20S	37E	Lea	eliminated		

LAND TYPE: BLM ___ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 55 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 9/18/2008 Date Completed 9/18/2008 OCD Witness no

Soil Excavated 8 cubic yards Excavation Length 5 Width 3 Depth 15 feet

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

FINAL ANALYTICAL RESULTS:

Sample Date 9/18/2008 **Sample Depth** 15 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 15' GRAB	0.0	<25.0	<25.0	352

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
background	6"	173
vertical delineation trench at the junction (source)	5'	552
	6'	329
	7'	722
	8'	651
	9'	652
	10'	772
	11'	785
	12'	753
	13'	727
	14'	704
	15'	436

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 5x3x15-ft-deep excavation. Chloride field tests performed on each sample yielded generally low concentrations that decreased with depth. Organic vapors were measured using a PID, which also yielded low concentrations. The deepest sample, 15 ft BGS, was analyzed by a commercial laboratory for chloride and TPH, which confirmed low concentrations. The excavated soil was returned to the excavation and clean blow sand was used as a top cap and to contour the site to the surrounding area. On 9/29/2008, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, 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 Darnell Mitchell SIGNATURE Darnell Mitchell COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-2-09

EME Jct. I-1

Unit I, Section 1, T20S, R37E

undisturbed junction box 9/18/2008

collecting a soil sample 9/18/2008

site prior to backfill 9/18/2008

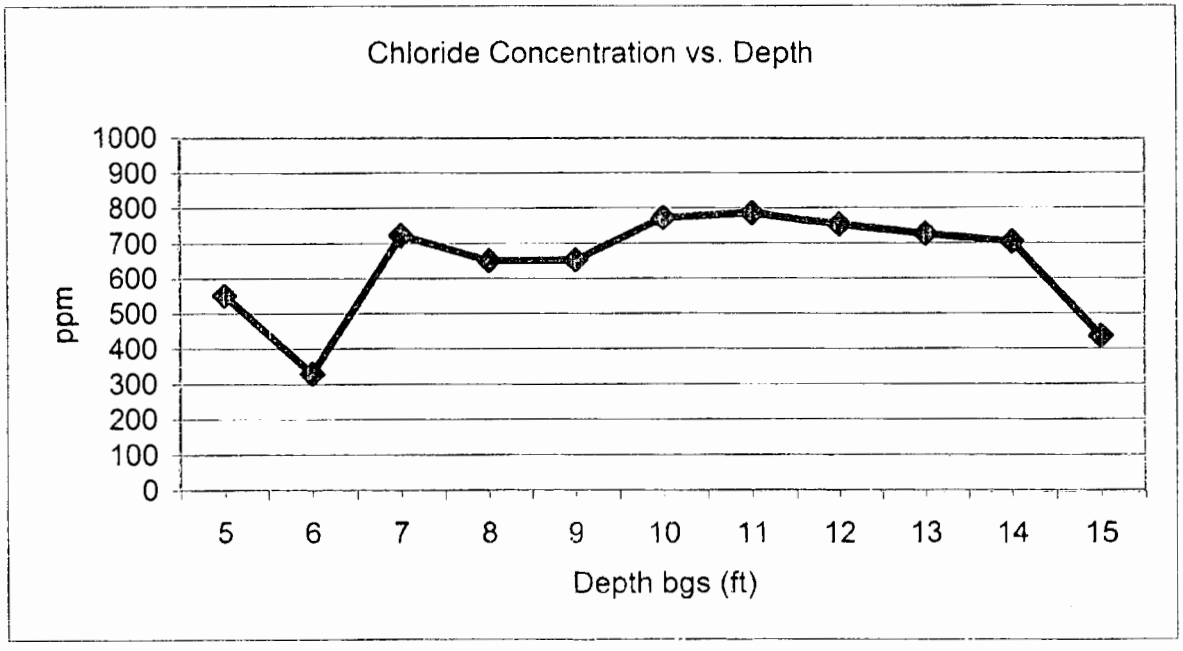
seeding backfilled site 9/29/2008

EME Jct. I-1

Unit 'I', Sec. 1, T20S, R37E

Backhoe samples at the junction (source)

Depth bgs (ft)	[Cl⁻] ppm
5	552
6	329
7	722
8	651
9	652
10	772
11	785
12	753
13	727
14	704
15	436



Groundwater = 55 ft

CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: DARNELL MITCHELL
122 W. TAYLOR
HOBBS, NM 88240

COPY

Receiving Date: 09/18/08
Reporting Date: 09/19/08
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: EME JCT. I-1

Sampling Date: 09/18/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/TR

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		09/19/08	09/19/08	09/19/08
H15948-1	INITIAL SOURCE @ 15FT.	<25.0	<25.0	352
Quality Control		483	477	490
True Value QC		500	500	500
% Recovery		96.6	95.4	98.0
Relative Percent Difference		14.7	19.7	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl B
*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

09-22-08
Date

H15948 TCL RICE

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Page____ of ____

Company Name:	Rice Operating
Project Manager:	Darnell Mitchell
Address:	122 W. Taylor
City: Hobbs	State: N.M Zip: 88240
Phone #:	Fax #: 575-397-1471
Project #:	Project Owner:
Project Name:	
Project Location:	EME JCT. I-1
Sampler Name:	Darnell mitchell

BILL TO

P.O. #:	
Company:	SAME
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

COPY

Lab I.D. (FOR LAB USE ONLY)	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	8015m TPH	CL
H15948-1	INITIAL SOURCE @ 15FT	G	1			✓					✓		9-18-08	3:25pm	✓	✓

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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: / Time:	Received By:
Relinquished By: Darnell Mitchell	Date: 9-18-08 / Time: 4:15	Received By: [signature]
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp.	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No — CHECKED BY: (Initials) [initials]

Phone Result: ☐ No | Add'l Phone #:
Fax Result: ☐ No | Add'l Fax #:

REMARKS:
Results B.Baker @ RiceSWD.com
J Purvis @ RiceSWD.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

CK. MODEL NO.			
	MODEL: PGM 7600	SERIAL NO: 110-013676	
	MODEL: PGM 7600	SERIAL NO: 110-013744	
	MODEL: PGM 7600	SERIAL NO: 110-12383	
✓	MODEL: PGM 7600	SERIAL NO: 110-012920	

model PGM7300

COPY

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 073353	EXPIRATION DATE: 5-14-09
FILL DATE: 11-16-08	METER READING ACCURACY: 99.9

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	I-1	I	1	20S	R-37E

INITIAL SOURCE

SAMPLE ID	PID	SAMPLE ID	PID
5	0.0		
6	0.0		
7	0.0		
8	0.0		
9	0.0		
10	0.0		
11	0.0		
12	0.0		
13	0.0		
14	0.0		
15	0.0		

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE: [signature]

DATE: 9-18-08

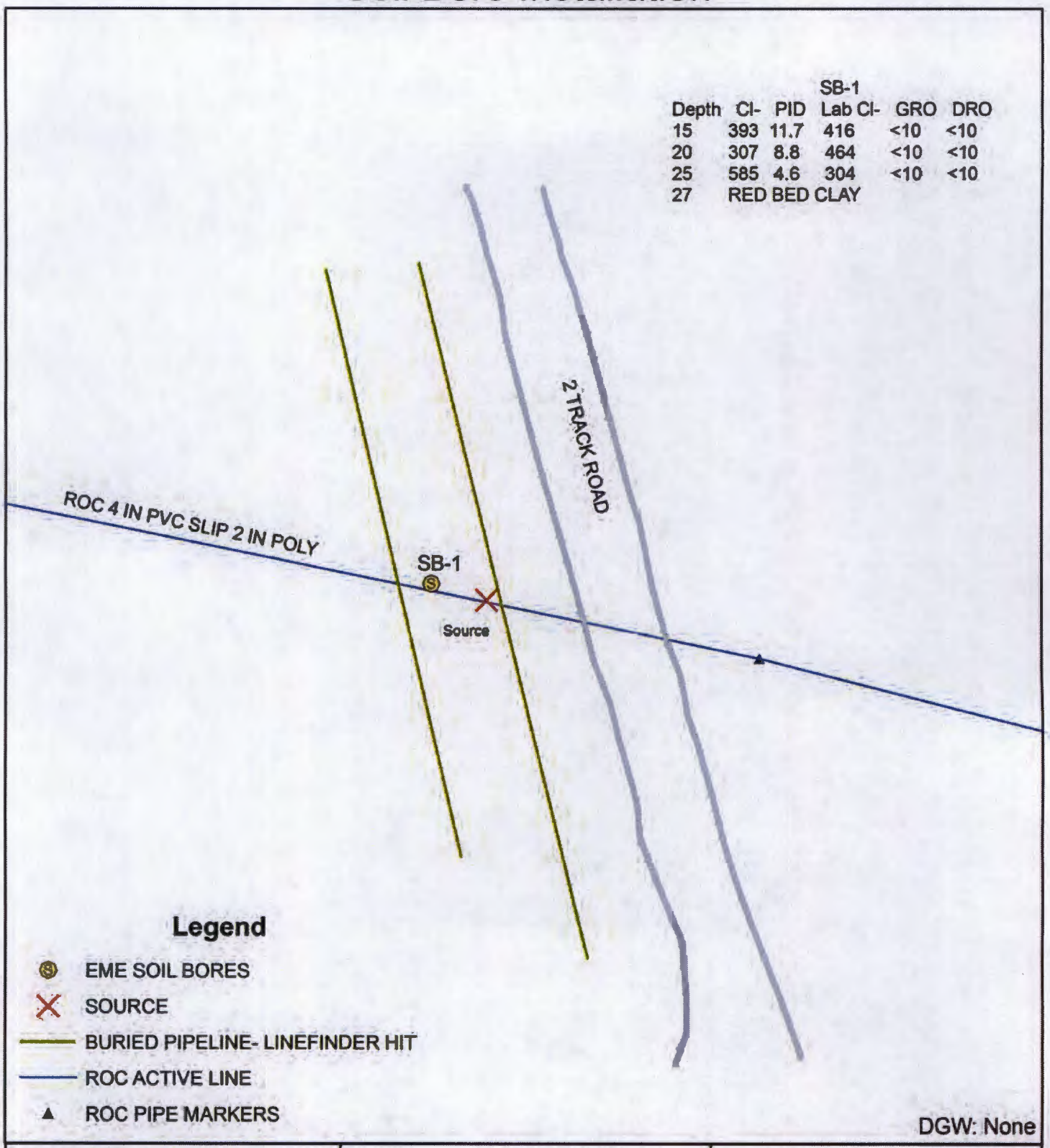
Soil Bore Installation Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Soil Bore Installation

SB-1

Depth	Cl-	PID	Lab Cl-	GRO	DRO
15	393	11.7	416	<10	<10
20	307	8.8	464	<10	<10
25	585	4.6	304	<10	<10
27	RED BED CLAY				



DGW: None

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC

EME I-1
1R427-254

UL I SECTION 1
T-20-S R-37-E
LEA COUNTY, NM

N W E S

0 10 20 Feet

GPS date: 9/28/13 TG
Drawing date: 10/11/13
Drafted by: L. Weinheimer

Logger:	Edward Cesareo		RICE ENVIRONMENTAL RECS CONSULTING & SAFETY, LLC
Driller:	Harrison & Cooper, Inc.		**Project Name:** EME jct. I-1 **Well ID:** SB-1
Drilling Method:	Air Rotary		
Start Date:	9/27/2013		
End Date:	9/27/2013		

Comments: SB-1 is located 6 ft west of the former junction box site
All samples from cuttings. Red bed clay occurred at 27 ft bgs.
DRAFTED BY: L. Weinheimer
TD = 32 ft GW = None

Location: UL/I sec. 1 T20S R37E
Lat: 32°35'57.2"N **Long:** 103°12'2.56"W **County:** Lea **State:** NM

Depth (feet)	Chloride field tests	LAB	PID	Description
				BROWN SAND
SS				
5 ft				
				CALICHE
10 ft				
15 ft	393	Cl- 416	11.7	
		GRO <10		CALICHE WITH PEA STONE
		DRO <10		
20 ft	307	Cl- 464	8.8	
		GRO <10		
		DRO <10		
25 ft	585	Cl- 304	4.6	
		GRO <10		
		DRO <10		
27 ft				RED BED CLAY
32 ft				

Lithology

Well Construction

bentonite seal

CARDINAL Laboratories

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

October 02, 2013

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME I-1

Enclosed are the results of analyses for samples received by the laboratory on 09/27/13 15:05.

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 accreditated 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Rice Operating Company
KATIE JONES
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	09/27/2013	Sampling Date:	09/27/2013
Reported:	10/02/2013	Sampling Type:	Soil
Project Name:	EME I-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S R37E		

Sample ID: SB #1 15' (H302360-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	10/01/2013	ND	432	108	400	3.77	

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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane	*88.6 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*96.7 %*	*63.6-154*

Sample ID: SB #1 20' (H302360-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	10/01/2013	ND	432	108	400	3.77	

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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane	*87.0 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*95.4 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Rice Operating Company
KATIE JONES
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	09/27/2013	Sampling Date:	09/27/2013
Reported:	10/02/2013	Sampling Type:	Soil
Project Name:	EME I-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S R37E		

Sample ID: SB #1 25' (H302360-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	10/01/2013	ND	432	108	400	3.77	

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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane	*98.4 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*101 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

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

Company Name: RICE Operating		BILL TO	
Project Manager: Katie Jones		P.O. #:	
Address: 112 W. Taylor		Company:	
City: Hobbs	State: NM Zip: 88240	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location: EME I-1 T-20-S/R37-E		Phone #:	
Sampler Name: Edward Cesareo		Fax #:	

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					
H302360																										
1	SB#1	15'	C	1			/					/		9-27-13	1:30	/	/									
2	SB#1	20'	C	1			/					/		"	1:35	/	/									
3	SB#1	25'	C	1			/					/		"	1:40	/	/									

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: Edward Cesareo	Date: 9-27-13 Time: 3:05	Received By: Jodi Henson	Phone Result: ☐ Yes ☑ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☑ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: email results hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; Knorman@rice-ecs.com, ecesareo@rice-ecs.com

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

#54

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

CK. MODEL NO.				
	X	MODEL: PGM 7300		SERIAL NO: 590-000508
		MODEL: PGM 7300		SERIAL NO: 590-000504
		MODEL: PGM 7320		SERIAL NO: 592-903318
		MODEL: PGM 7300	X	SERIAL NO: 590-902553

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT # IAM-248-100-1	EXPIRATION DATE:8-15-16
METER READING ACCURACY: 100PPM	

ACCURACY : +/- 2%

COMPANY
ROC

SITE	UNIT	SECTION	TOWN SHIP	RANGE
EME Jct. I-1	I	1	20S	37E

SAMPLE ID	PID	SAMPLE ID	PID
SB#1 15'	11.7		
SB#1 20'	8.8		
SB#1 25'	4.6		

SIGNATURE: Edward Rice

DATE : 9-27-13

Letter of No Groundwater Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Arc Environmental
P. O. Box 1772
Lovington, New Mexico 88260
(575) 631-9310
Rozanne Johnson ~ rozanne@valornet.com

October 4, 2013

Mr. Hack Conder
RICE Operating Company
112 West Taylor
Hobbs, New Mexico 88240

Re: EME Junction I-1

Mr. Conder,

On Thursday October 3, 2013 soil bore #1 at the EME Junction I-1, Lea County T20S, R37E, Sec 1 Unit Letter I was checked with a Solinist Water Level Meter for water accumulation within the borehole. The meter indicated no water within the borehole at a total depth of 29.82 feet.

Sincerely,
Arc Environmental

Rozanne Johnson
Rozanne Johnson

Electronic Copy: Hack Conder
Katie Jones
Kyle Norman

Current Photodocumentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

EME Jct. I-1 (1R427-254)
Unit Letter I, Section 1, T20S, R37E

Facing north 10/15/2013

Facing east 10/15/2013