1R-427-162

REPORTS

DATE: 4-17-12

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

Sent: Tuesday, June 05, 2012 1:00 PM

To: Hack Conder (hconder@riceswd.com)

Cc: Leking, Geoffrey R, EMNRD; Laura Pena (Ipena@riceswd.com); Lara Weinheimer

(lweinheimer@rice-ecs.com)

Subject: Remediation Plan (1R427-162) Further Information Required - ROC EME Jct G-18 Site

RE: Vadose Zone Remediation & Termination Request for the Rice Operating Company's EME Jct G-18 Site

Unit Letter G, Section 18, T19S, R37E, NMPM, Lea County, New Mexico

Remediation Plan (1R427-162) Further Information Required

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's (ROC) report and request to close the above-referenced site (dated April 17, 2012). The report indicates that additional information is required. Therefore, the OCD cannot approved the termination of the remediation plan at this time:

ROC must continue to monitor for chloride and TDS in the groundwater at MW-1R for at least two additional quarters.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist

Environmental Bureau

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

RECEIVED OCD

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 9460 2012 APR 20 A 9: 11

April 17th, 2012

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: Vadose Zone Remediation and Termination Request Rice Operating Company – EME SWD System EME jct. G-18 (1R427-162): UL/G sec. 18 T19S R37E

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 and Previous Work

The site is located approximately 3 miles northwest of Monument, New Mexico at UL/G sec. 18 T19S R37E as shown on the Site Location Map (Figure 1). Monitor well sampling at the site indicates that groundwater is located at 54 ft bgs.

In 2004, ROC initiated work on the former EME G-18 junction box. The site was delineated using a backhoe and soil samples were screened at regular intervals for both hydrocarbons and chlorides. The excavation reached dimensions of 20 ft x 18 ft x 12 ft below ground surface (bgs) where composite samples were collected for laboratory verification. Laboratory tests of the site resulted in chloride concentrations of 126 mg/kg in the 4-wall, 617 mg/kg in the bottom composite, and 298 mg/kg in the remediated backfill. Gasoline range organics (GRO) readings resulted in concentrations of 392 mg/kg in the 4-wall composite, 939 mg/kg in the bottom composite, and 302 mg/kg in the remediated backfill. Diesel range organics (DRO) ranged from 2690 mg/kg in the 4-wall composite, 6520 mg/kg in the bottom composite and 4570 mg/kg in the remediated backfill. BTEX was present in the 4-wall composite, the bottom composite and remediated backfill. At 6-5 feet bgs, a 1 ft thick clay layer was installed to inhibit further chloride migration and a compaction test was performed on April 16th, 2004. The soils were blended on site and then backfilled into the excavation. The area was contoured to

the surrounding landscape and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. A new junction box was not required at the site.

On June 2nd, 2004, a soil bore was drilled at the site to determine the vertical extent of the contamination. Two attempts were made to drill the soil bore; however, the bore could not be advanced past 20 feet due to a hard rock stratum. The 20 feet sample was taken for laboratory verification of the field numbers. The chloride laboratory reading was 896 mg/kg, GRO was non-detect, DRO was 266 mg/kg and BTEX was non-detect. NMOCD was notified of potential groundwater impact on September 14th, 2004 and a junction box disclosure report was submitted to NMOCD with all the 2004 junction box closures and disclosures.

ICP Investigative Results

As part of the Investigation and Characterization Plan approved by NMOCD on September 15th, 2010, five soil bores (SB-1 through SB-5) were advanced through the former junction box site on October 22nd and October 25th, 2010. ROC personnel field tested the soil for chlorides and screened in the field with a photo-ionization detector (PID). Representative samples from the bores were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. Laboratory readings showed chloride numbers ranging from a high of 848 mg/kg at 50 ft bgs in SB-2 to a low of <16 mg/kg at 10 ft bgs in SB-2 and at 15 ft bgs in SB-3. Laboratory readings for GRO showed non-detect in all soil bores except for SB-2, which showed a GRO reading of 132 mg/kg at 10 ft bgs, and in SB-3, which showed a GRO reading of 111 mg/kg at 15 ft bgs. DRO readings showed non-detect in SB-4 and SB-5 and at 50 ft bgs in SB-1. Otherwise, DRO detectable readings ranged from 3,520 mg/kg at 15 ft bgs in SB-3 to 22.3 mg/kg at 50 ft bgs in SB-2.

On December 6th, 2010, three monitor wells were installed at the site. MW-1, the near-source monitor well, and MW-2, the up gradient monitor well, were field tested for chlorides and screened in the field with a photo-ionization detector (PID). Two samples from MW-1 (5 ft and 45 ft bgs) were taken to a commercial laboratory for confirmation of field numbers. MW-1 showed laboratory chloride readings of 16 mg/kg at 5 ft bgs and at 45 ft bgs. Both samples showed GRO readings of non-detect. The 5 ft bgs sample had a DRO reading of non-detect while the 45 ft bgs sample had a DRO reading of 131 mg/kg.

On July 7th, 2011, ROC submitted an ICP Report and Corrective Action Plan (CAP) to NMOCD, which was subsequently approved on July 18th, 2011. In the report, RECS recommended that ROC excavate the site to 44 ft x 49 ft to 4 to 5 ft bgs and properly seat a 20-mil reinforced liner in the bottom of the excavation. The proposed liner would cover the existing clay layer installed at 6 ft bgs and would extend 10 ft beyond SB-2, SB-3, and SB-4 and would extend past SB-4 up to the newly installed concrete junction box. The soils placed above the liner would have a laboratory chloride reading no greater than 500 mg/kg and a field PID measurement below 100 ppm. Excavated soil would be

evaluated for use as backfill and any soil requiring disposal will be properly disposed of at an NMOCD approved facility.

Upon completion of backfilling, the site would be prepared with soil amendments as needed and seeded with native vegetation. Vegetation above the liner would provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater.

In addition, ROC proposed to conduct a 6-month source removal and test pumping program. The purpose of this pumping program was to determine if groundwater may be restored within a reasonable time and to assist in the evaluation of groundwater alternatives. The near-source monitor well (MW-1) would be plugged and replaced with a 4 inch monitor well. Removed groundwater would be used in pipeline maintenance operations.

Vadose Zone Remediation

On November 23rd, 2011, RECS personnel were on site to begin excavating for the liner installation. The site was excavated to 44 ft x 49 ft x 5 ft deep and the excavated soil was blended on site to use as backfill (Figure 2). A sample of this blended soil was tested in the field for hydrocarbons using a PID meter and returned a result of 4.0 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and returned a result of 80 mg/kg. Clean soil was imported to the site to pad the liner to protect it from punctures. A sample of the imported soil was PID field tested for hydrocarbons returned a result of 0.6 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and returned a result of non-detect. The excavation was padded with six inches of the imported sand and then the liner was properly seated into the excavation at approximately 4.5 ft bgs. The liner was padded on top with six inches of imported sand and then backfilled with the blended soil to six inches bgs. The remaining imported soil was used to complete the backfill and to contour the site to the surrounding area. A total of 132 yards of soil was imported to the site to use as padding and as backfill. The remainder of the blended soil, 228 yards, was taken to a NMOCD approved facility for disposal. The site was seeded with a blend of native vegetation and a silt net fence was placed around the area to maintain seed integrity. Documentation of these activities can be found in Appendix A.

Groundwater Remedy

On October 26th, 2011, MW-1 was plugged and abandoned with a 1-3% bentonite/concrete slurry and capped with three feet of concrete. MW-1 was then replaced with a 4 inch well (MW-1R) which was installed 9 ft southeast of the former MW-1 (Figure 3). The monitor well was not sampled as it was installed (Appendix B).

The monitor wells have been sampled quarterly since their installation (Figure 3). During the most recent sampling event on February 14th, 2012, MW-1R had a chloride reading of

192 mg/kg, MW-2 had a chloride reading of 24 mg/kg and MW-3 had a chloride reading of 85 mg/kg (Appendix C).

MW-1R was installed to conduct the NMOCD approved 6-month source removal and test pumping program. However, two quarters of monitor well sampling data showed chloride values below WQCC standards. Therefore, the source removal and test pumping program is not conducive for this site.

ROC has completed the vadose zone remediation approved by NMOCD in the CAP. The NMOCD approved 20-mil reinforced liner will inhibit the further migration of chlorides through the vadose zone to groundwater. The chloride plume beneath the site is limited, as evidenced by the below WQCC standards chloride concentrations in MW-1R, and, in combination with the installation of the liner, will decrease. Therefore, ROC requests 'remediation termination' status of the regulatory file.

Upon NMOCD's approval of this report, the monitor wells (MW-1R, MW-2, and MW-3) will be plugged and abandoned with a 1-3 % bentonite/concrete slurry with a three foot concrete cap.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist

Project Scienti

RECS

(575) 441-0431

Attachments:

Figure 1 – Site Location Map

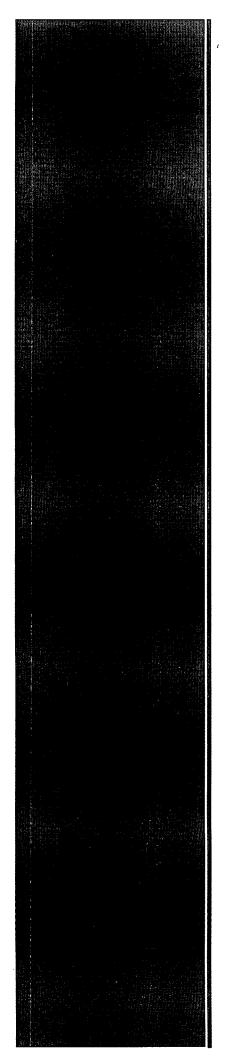
Figure 2 – NMOCD Approved Liner

Figure 3 – MW-1R Installation and Monitor Well Sampling

Appendix A – Liner Installation Documentation

Appendix B – P& A MW-1 and MW-1R Installation Documentation

Appendix C – MW Sampling Lab



Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Site Location



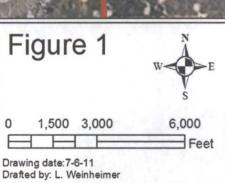


EME jct. G-18

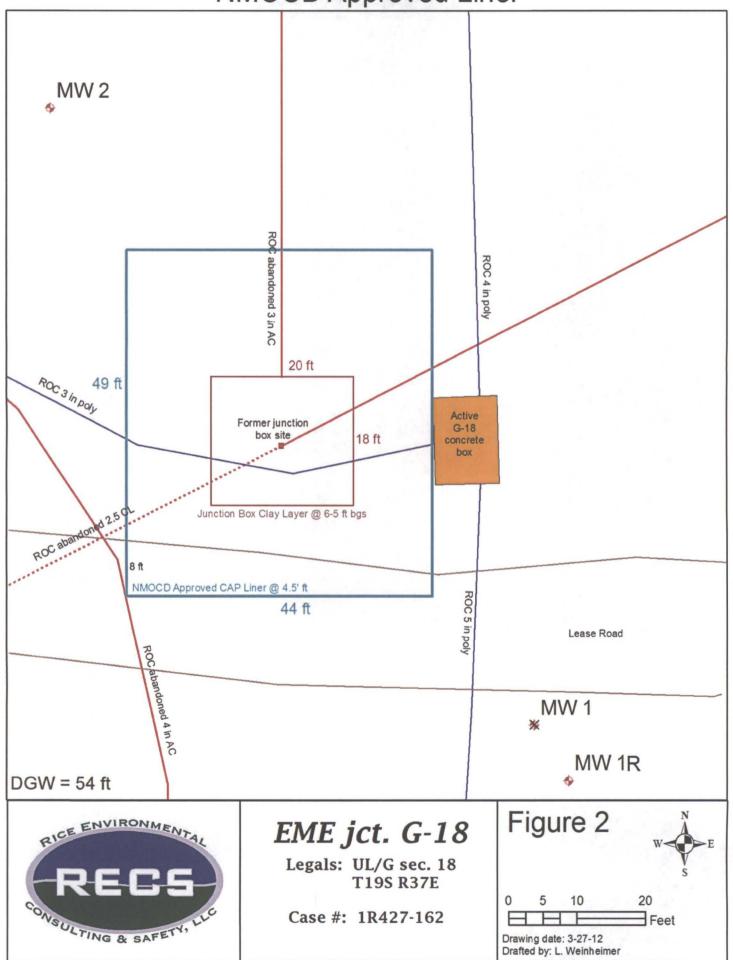
Legals: UL/G sec. 18

T19S R37E

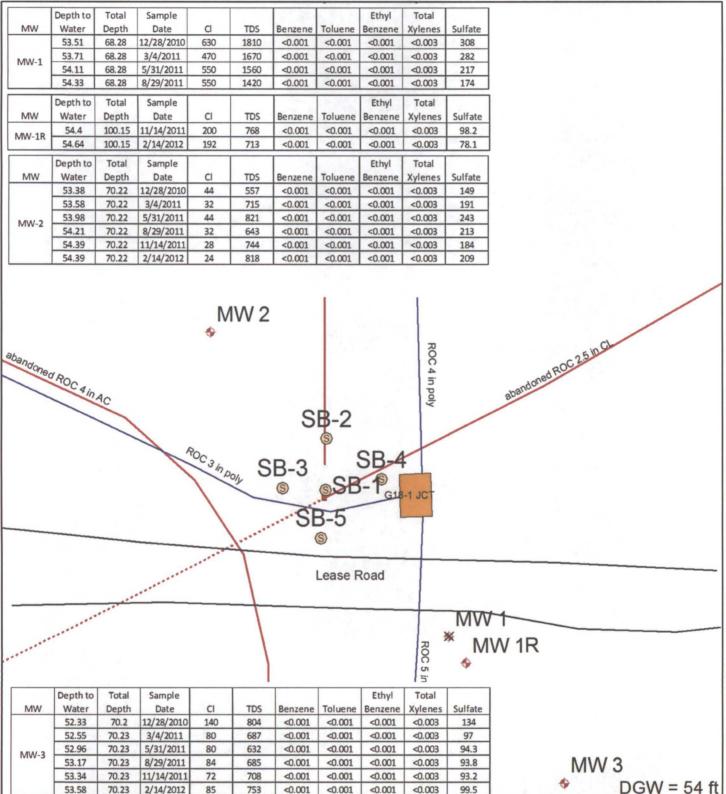
Case #: 1R427-162



NMOCD Approved Liner



MW-1R Installation and Monitor Well Sampling

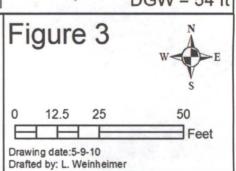


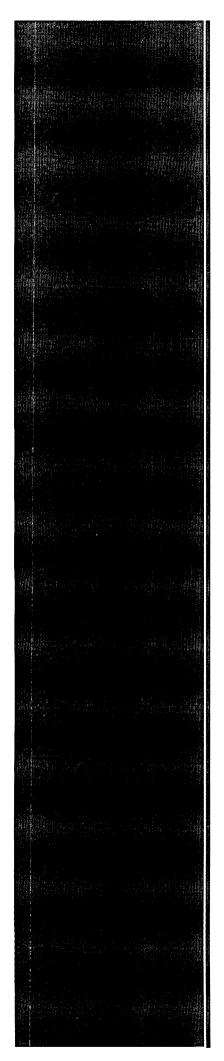


EME jct. G-18

Legals: UL/G sec. 18 T19S R37E

Case #: 1R427-162





Appendix A Liner Installation Documentation

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



December 06, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME G-18 JCT 19S-37E

Enclosed are the results of analyses for samples received by the laboratory on 12/02/11 16:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

12/02/2011

Sampling Date:

12/02/2011

Reported:

12/06/2011

Sampling Type:

Soil

Project Name:

EME G-18 JCT 19S-37E

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: 8 PT. BLENDED COMP BACKFILL (H102594-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2011	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

ARDINAL 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

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

RICE ENVIRONMENTAL CONSULTING & SAFETY

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

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		CO	MPANY		
ACCURACY: +/- 2%					
	METER I	READING AC	CURACY: 100.0 PPM		
LOT NO: 930360			EXPIRATION DATE	: 5/24/2013	
	GAS COMPOSITIO	N: ISOBUTY	LENE 100PPM / AIR:	BALANCE	
	MODEL: PGM 7300	SERIAL	NO: 590-000183		
NO.	MODEL: PGM 7320	SERIAL	NO: 592-903318		
MODEL x	MODEL: PGM 7300	SERIAL	NO: 590-000504		
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: Kyle Norma

DATE: 12-2-2011



December 08, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME G-18 JCT 19S-37E

Enclosed are the results of analyses for samples received by the laboratory on 12/06/11 15:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Rice Operating Company

Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

12/06/2011

Sampling Date:

12/06/2011

Reported:

12/08/2011

Sampling Type:

Soil

Project Name:

EME G-18 JCT 19S-37E

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: BLOW SAND COOPERS PIT (H102601-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2011	ND	416	104	400	0.00	

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Celeg & Keene



ND

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Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Lab I.D.	Sample I.I		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	отнек:	ACID/BASE:	ICE/COOL	OINER .	DATE	TIME		. 			Complete Cations/Anions							
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analyses. All claims includir service: in no event shall C	/:	sse whatsoever shall be d ental damages, including	eemo withou profinal Re	t timitat regard	ed By	made hinesa inihether	with terrupti such c	g and ones, to latm is	base	ed by use, or d upon	Carding loss of any of	T prof	thin 30 days after this incurred by cabove stated re-	r completion of the completion	resursections	□ Ye □ Ye elts cesv	vd.co	om; .com	knoi	mar aker	n@ri •@ri	ce-e	cs.co	om;		
Sampler - UPS					Co	oi Yes - No	Intac		ı	(型	Js)	hcond	er@	rice	ecs	.com	; Lw	einh	eim	er@ı	rice-	ecs.c	òm	

f Cardinal cannot accept verbal changes, Please fax written changes to 505-393-2476

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: PGM 7300	SERIAL NO: 590-000508
MODEL	х	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.		MODEL: PGM 7320	SERIAL NO: 592-903318
		MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 930360			EXPIRATION DATE: 5/24/2013	
	METER REA	DING AC	CURACY: 100.0 PPM	

ACCURACY: +/- 2%

COMPANY	
Rice	

SITE	UNIT	SECTION	TOWN SHIP	RANGE
EME G-18 Jct.	G	18	198	37E

SAMPLE ID	PID	SAMPLE ID	PID
Blow Sand Cooper's Pit	0.6		

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

SIGNATURE: W

DATE: 12-6-2011



PO Box 5630 Hobbs, NM 88241 Phone: (575) 393-4411 Fax: (575) 393-0293

REVEGETATION FORM

1. General II	formation						
Site name:		•		•			
EME G-18 Jct							
U/L	Section	Township	Range	County	Latitude	Longitude	
G	18	198	37E	Lea	32° 39.726'	103° 17.374'	
Contact Name:	Hack Con	der					
Email:							
conder@rice-			•				•
cs.com							
ite size: 52'x39		8 square feet	Map detai	l of site attached			
Additional infor	mation:		•			•	
0 G-11	*5		1.1 1.1			,	
2. Soils		remediated			ce by ripping shall be re		
salvaged from s		scribe soil & subs	Imported			pth (in):	
exture:					h caliche subsoil	1 []	
oil prep metho		Depth(in)): Disc	Depth (in): Rollerp	ack [_]	
Date completed:	12/30/20)11					
3. Bioremed	iation						
ertilizer			Hay	,	Othe	rП	
Type:				_	Desc	_	
bs/acre:	•						
	·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
4. Seeding		eed bag tags to this	form. Seed bag to	ags shall contain t	he site name and S-T-R	2	
Custom seed mi	x 🛛 Presc	ribed mix 🔲	Seed mix name	: 3 lbs. Blue	Grama Sec	eding date: 1/4/20	12
Broadcast 🛛	•		•		•	,	
Method: By Ha							
Soil conditions of			Damp W	et 🗌			
Photos attached	_	Observations:				•	
Number of photo	os: 1						
5 C							
5. Certificati		rtify that the informat				of my knowledge and belief.	010
Name: I	Kyle Norman		Titl	e: Environn	nental Tech	Date: 1/4/20	<u> </u>
Signature: h	MI -			·			
	•						

EME Jct. G-18 (1R427-162) Unit G, Section 18, T19S, R37E



Site prior to excavation, facing east

10.27.11



Excavating site, facing east

12.1.11



Site excavated to 49x44x5-ft deep, facing north 12.2.11



Installed bottom 6" sand pad, facing northwest 12.6.11



20-mil reinforced plastic liner installed at 4.5 ft BGS, facing northeast 12.7.11



Installing 6" sand pad above liner with imported blow sand, facing east 12.7.11



Exporting soil, facing west

12.8.11



Backfilling with blended backfill, facing south 12.8.11



Importing blow sand, facing south

12.9.11



Backfilling top 6" with blow sand, facing east 12.9.11



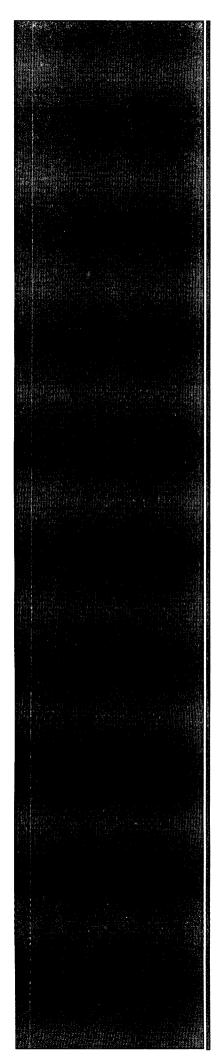
Seeding site, facing northeast

1.4.12



Site completed, facing east

4.11.12



Appendix B

P&A MW-1 and MW-1R Installation Documentation

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

HARRISON & COOPER, INC.

Drilling & Pump Professionals

Ph: (806) 866-4026

7414 85th Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Fax: (806) 866-4044

hcidrill.com

Plugging Report

Rice Operating
Harrison & Cooper
10/26/2011
EME Jct. G-18
MW-1
2"
65'
PVC
Portland/Bentonite Slurry
3'-65'
0'-3'

Copies: File

Email (Lara Weinheimer; Katie Jones)

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

Logger: Kyle Norman SB-2 SB-3 SB-4 Driller: Harrison & Cooper, Inc. **Drilling Method:** Mud rotary **Project Name:** Well ID: ₩ * Start Date: 10/26/2011 EME jct. G-18 MW-1R MW 1R End Date: 10/26/2011 **Project Consultant: RECS** Comments: MW-1R is located 9 ft southeast for MW-1. No samples Location: UL/G sec. 18 T19S R37E were taken during installation. Lat: 32°39'43.545"N DRAFTED BY: L. Weinheimer County: Lea TD = 97 ftGW = 54 ftLong: 103°17'23.023"W State: NM Chloride Depth **Well Construction** LAB PID Description Lithology (feet) field tests SS 5 ft 10 ft 15 ft in PVC NO SAMPLES TAKEN 20 ft 25 ft 30 ft 35 ft 40 ft 45 ft 50 ft

55 ft

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construc
60 ft						
65 ft		11				
70 ft						
75 ft						
80 ft				NO SAMPLES TAKEN		
85 ft	7. 2.					
90						
95						
97 ft						

EME jct. G-18 Unit G, Section 18, T-19-S, R-37-E



Pulling MW-1, facing west

10/26/11



Plugging MW-1 with a 1 – 3% concrete/bentonite slurry

10/26/11



MW-1 plugged, facing east

10/26/11



Drilling MW-1R, facing northwest

10/26/11



Mudding in MW-1R, facing west

10/26/11



Installing casing in MW-1R, facing west

10/26/11



Adding the sand pack

10/26/11



Placing the bentonite seal

10/26/11



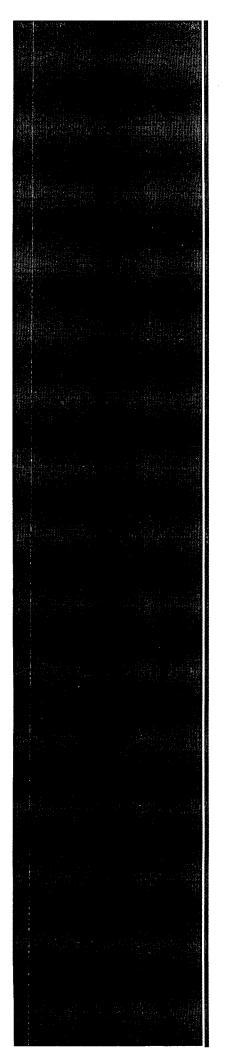
Concreting the well in, facing east

10/26/11



Completed MW-1R, facing west

10/26/11



Appendix C MW Sampling Lab

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



February 29, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 02/20/12 10:36.

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/ga/lab accredited 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.

Celey D. Keens

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



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

02/20/2012

Sampling Date:

02/14/2012

Reported:

02/29/2012

Sampling Type:

Water

Project Name:

EME JUNCTION G-18

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

T19S-R37E-SEC18 G - LEA CTY., NM

Sample ID: MONITOR WELL #1R (H200450-01)

BTEX 8021B	mg/	L	Analyze	d By: AP					•••		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	02/26/2012	ND	0.050	101	0.0500	6.76			
Toluene*	<0.001	0.001	02/26/2012	ND	0.052	104	0.0500	6.98			
Ethylbenzene*	<0.001	0.001	02/26/2012	ND	0.053	106	0.0500	6.60			
Total Xylenes*	<0.003	0.003	02/26/2012	ND	0.163	108	0.150	7.07			
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 70.7-11	8								
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride*	192	4.00	02/22/2012	ND	100	100	100	0.00			
Sulfate 375.4	mg/	L	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Sulfate*	78.1	10.0	02/28/2012	ND	18.8	94.0	20.0	9.62			
TDS 160.1	mg/	L	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
TDS*	713	5.00	02/20/2012	ND	234	97.5	240	0.00			

Cardinal Laboratories ·

*=Accredited Analyte

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Celeg L. Keine



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

02/20/2012

Sampling Date:

02/14/2012

Reported:

Water

Project Name:

02/29/2012

Sampling Type:

Project Number:

EME JUNCTION G-18 NONE GIVEN

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

T19S-R37E-SEC18 G - LEA CTY., NM

Sample ID: MONITOR WELL #2 (H200450-02)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	nalyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/26/2012	ND	0.050	101	0.0500	6.76	
Toluene*	<0.001	0.001	02/26/2012	ND	0.052	104	0.0500	6.98	
Ethylbenzene*	<0.001	0.001	02/26/2012	ND	0.053	106	0.0500	6.60	
Total Xylenes*	<0.003	0.003	02/26/2012	ND	0.163	108	0.150	7.07	
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 70.7-11	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	24.0	4.00	02/22/2012	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	209	10.0	02/28/2012	ND	18.8	94.0	20.0	9.62	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

02/20/2012

Sampling Date:

02/14/2012

Reported:

02/29/2012

Sampling Type:

Water

Project Name:

EME JUNCTION G-18

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

T19S-R37E-SEC18 G - LEA CTY., NM

Sample ID: MONITOR WELL #3 (H200450-03)

BTEX 8021B	mg	mg/L Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/26/2012	ND	0.050	101	0.0500	6.76	
Toluene*	<0.001	0.001	02/26/2012	ND	0.052	104	0.0500	6.98	
Ethylbenzene*	<0.001	0.001	02/26/2012	ND	0.053	106	0.0500	6.60	
Total Xylenes*	<0.003	0.003	02/26/2012	ND	0.163	108	0.150	7.07	
Surrogate: 4-Bromofluorobenzene (PIL	4-Bromofluorobenzene (PIL 107 % 70.7-118		'8						
Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM			·		·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	85.0	4.00	02/22/2012	ND	100	100	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	99.5	10.0	02/28/2012	ND	18.8	94.0	20.0	9.62	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	753	5.00	02/20/2012	ND	234	97.5	240	0.00	

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

101 East Mariand - Hobbs, New Maxico 88240 Tel. (575) 393-2326 Cardinal Laboratories, Inc.							CHAIN-OF-CUSTODY AND ANALYSIS REQUEST																												
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