1R - 427 - 14

WORKPLANS

Date: 5 - 16 - 12

Rice Environmental Consulting & Safety

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

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 9675

May 16th, 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: CAP Report for Vadose Zone Remediation and Proposed Groundwater Remedy

22 AVA 7.80

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Rice Operating Company – EME SWD System EME D-2 boot (1R427-14): UL/D sec. 2 T20S R36E (formerly the EME M-35-2 boot)

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. The site was previously referred to as the EME M-35-2 boot at T19S R36E. However, GIS mapping shows the site to be located within unit letter D, section 2, Township 20S, and Range 36E. To reflect the geographical location of the site, the name has been changed to the EME D-2 boot at T20S R36E. All correspondence will reference EME D-2 boot.

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 4 miles southwest of Monument, New Mexico at UL/D sec. 2 T20S R36E as shown on the Geographical Location Map (Figure 1). Monitor well sampling conducted at the site shows groundwater to be located at 51 +/- feet.

In 2003, ROC initiated work on the former EME D-2 boot junction box. The site was delineated using a backhoe to form a trench and soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, a bottom grab sample was taken to a commercial laboratory for analysis. Laboratory tests of the 12 ft bottom grab sample showed a chloride laboratory reading of 2,690 mg/kg and negligible GRO (gasoline range organics), DRO (diesel range organics), and BTEX readings. The

trench was backfilled with the excavated soils and capped with approximately 3 feet of topsoil.

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. NMOCD was notified of potential groundwater impact on July 31st, 2003 and a junction box disclosure report was submitted to NMOCD with all the 2003 junction box closures and disclosures. ROC proposed additional investigative work at the site to determine if there was potential for groundwater degradation from residual chlorides and hydrocarbons at the site.

As part of the Investigation and Characterization Plan (ICP) approved by NMOCD on September 13th, 2011, eight soil bores were advanced through the former junction box site on August 29th and 31st, 2011. ROC personnel field tested the soil for chlorides and screened in the field with a photo-ionization detector (PID) for hydrocarbons. Representative samples from the bores were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. Laboratory readings showed chloride numbers increasing with depth at the source bore, SB-1. In all the other bores, laboratory chloride readings decreased with depth. Laboratory GRO and DRO readings were low to non-detect in all the soil bores except for SB-4 at 5 ft bgs. In SB-4 at 5 ft bgs, the laboratory GRO reading was 67.2 mg/kg and the DRO reading was 556 mg/kg. Because the field sample for SB-4 at 5 ft bgs had a PID reading above 100 ppm, the sample was also submitted for BTEX analysis. The sample returned with a laboratory benzene reading of non-detect, a toluene reading of 0.153 mg/kg, an ethyl-benzene reading of 0.495 mg/kg and a xylene reading of 1.58 mg/kg.

On October 27th and 28th, 2011, two monitor wells and two additional soil bores were installed at the site. MW-1 is located 50 ft southeast of the former junction box and MW-2 is located 163 ft northwest of the former junction box site. As MW-2 was being installed, RECS personnel field tested the soil for chlorides and screened in the field with PID meter for hydrocarbons to determine background soil concentrations. As SB-9 and SB-10 were being advanced, RECS personnel field tested the soil for chlorides and screened in the field with a PID meter for hydrocarbons. Representative samples from the bores were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. In SB-9, chloride numbers peaked at 10 ft bgs with a laboratory chloride reading of 2,240 mg/kg and decreased to 304 mg/kg at 45 ft bgs. In SB-10, chloride numbers peaked at 30 ft bgs with a laboratory chloride reading of 1,100 mg/kg and decreased to 304 mg/kg at 45 ft bgs. In both soil bores, GRO and DRO readings were non-detect.

An ICP Report and Corrective Action Plan was submitted to NMOCD on November 9th, 2011 and approved on November 21st, 2011. In the report, RECS recommended that ROC install a 20-mil reinforced poly liner measuring 51 ft x 62 ft. The liner would act as an infiltration barrier that would inhibit the downward migration of chlorides to groundwater. The liner would be installed at 5-4 ft bgs and padded both above and below with six inches of blow sand. The soils placed on top of the padded liner would have a

laboratory chloride reading below 500 mg/kg and a PID reading below 100 ppm. Excavated soil would be evaluated for use as backfill and any soils requiring disposal would be properly disposed of at a NMOCD approved facility. Soil amendments would be added as needed and the site would be seeded with a native vegetative mix. Vegetation above the liner would also 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.

Groundwater samples would be obtained from the installed monitoring wells (MW-1 and MW-2) and analyzed on a quarterly basis. Once it was determined whether chloride impacts have occurred to groundwater beneath the site, ROC would either suggest a groundwater remedy or request site termination.

Vadose Zone CAP Activities

Beginning on March 16th, 2012, RECS personnel excavated the site to 51 ft x 62 ft x 5 ft deep (Figure 2). A total of 956 yards of excavated material was taken to a NMOCD approved facility for disposal. The bottom of the excavation was padded with 6 inches of clean, imported soil and a 51 ft x 62 ft, 20-mil reinforced poly liner was installed and properly seated at the base of the excavation. The top of the liner was padded with 6 inches of the clean, imported sand and a sample of the sand (import sand/wallach) was taken to a commercial laboratory for analysis. Laboratory chloride readings returned a result of 16 mg/kg. A total of 100 yards of sand was imported to the site to pad the liner. The excavation was then backfilled with imported caliche to 2 ft bgs. A total of 294 vards of caliche was imported to the site to serve as backfill. A sample of this caliche (imported caliche) was field tested for hydrocarbons and returned a result of 0.0 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and retuned a result of non-detect. A total of 502 yards of sand was imported to the site and used as a top cap to level the surface. A sample of this sand (imported blow sand) was field tested for hydrocarbons and returned a result of 0.4 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and returned a result of nondetect.

The site was seeded with a native seed blend and a silt net fence was placed around the site to maintain seed integrity. Laboratory results, PID analysis, and photo documentation of these activities can be found in Appendix A.

Groundwater Remedy

The monitor wells at the site have been sampled quarterly since their installation (Figure 3). During the most recent sampling event on February 15th, 2012, the near-source well (MW-1) had a laboratory chloride reading of 4,200 mg/L and the up gradient well (MW-2) had a laboratory chloride reading of 3,850 mg/L (Appendix B). It is evident that although the site is in a regionally impacted chloride area (Figure 4), the chlorides in the vadose zone have contributed slightly to the degradation of groundwater beneath the site. Therefore, ROC proposes to remove chloride impacted groundwater from the existing

groundwater recovery system located at EME L-6. Removed water will be used for pipeline and well maintenance. Our estimate conservatively reflects the net impact to groundwater at the site resulting from the former junction box site. It does not take into account other sources or regional conditions that may exist up gradient of the site.

• Estimated chloride mass in the groundwater

The estimated impact area for the site is 3,162 square feet. The aquifer thickness is 15 ft and the porosity is estimated at 0.25. The volume of the impacted groundwater beneath the site is determined by multiplying the impact area by the aquifer thickness by the porosity. Therefore, the volume of impacted groundwater beneath the site is 11,857.50 cubic feet. The result is then converted to liters giving a value of 335,767 liters. The chloride concentration contributed from the source is the difference between the highest concentration in MW-1 and the lowest concentration in MW-2, which is determined to be 800 mg/L. The total chloride mass in the groundwater beneath the site by the chloride concentration contributed from the site. This then is converted to kilograms. Thus, the total chloride mass beneath the site is 269 kg.

Parameter	Unit	Value	Description
Impact area	ft ²	3,162	Estimated Area of Impact
Aquifer Thickness	ft	15	NMOCD Approved Estimation
Porosity	%	0.25	Professional Estimate for Water Saturated Pore Volume
Volume of Impacted Groundwater Below Site	ft ³	11,857.50	Impact Area x Aquifer Thickness x Porosity
Volume of Impacted Groundwater Below Site	L	335,767	Conversion from ft ³ to Liters
Chloride Concentration from Source	mg/L	800	Difference between Concentrations in Monitor Wells (MW-1 = 4,650 mg/L and MW-2 = 3,850 mg/L)
TOTAL CHLORIDE MASS	kg	269	Volume of Impacted Groundwater Below Site x Chloride Concentration Added to Soil from Source

Estimate of Chloride Mass in Groundwater

The recovery system located at EME L-6 is expected to extract one gallon a minute. Given the chloride concentration in MW-2R of 9,500 mg/L, approximately 178 barrels of groundwater will be required to remove 269 kg of chloride.

Estimated Groundwater Recovery System Removal at the EME L-6

Parameter	Unit	Value	Description						
Groundwater									
Concentration	mg/L	9,500	Groundwater Concentration from MW-2R						
Groundwater									
Concentration	kg/gal	0.03596169	Conversion from mg/L to kg/gal						
Pumping Rate	gals/min	1	Given						
Extraction Rate	kg/min	0.03596169	Pumping rate x Groundwater Concentration (kg/gal)						
Extraction Rate	kg/day	21.5770148	Conversion from kg/min to kg/day						
Representative Total									
Chloride Mass	kg	269	From above						
			Pumping rate x Estimated Removal Time x 60 min/hour						
Volume Removal	gals	7,470	x 10 hr/day						
Volume Removal	bbls	178	Conversion from gals to bbls						
ESTIMATED									
REMOVAL TIME	day	12	Representative Total Chloride Mass/Extraction Rate						

• Estimated chloride mass in the vadose zone

With the infiltration barrier measuring 51 ft x 62 ft, that covered all soil bore points, we conclude that the chlorides remaining in the vadose zone will have little impact on the groundwater beneath the site. The infiltration barrier will prevent the vertical movement of water in the vadose zone thereby eliminating the path the chlorides take in moving to groundwater.

Upon the completed of the groundwater remedy, ROC will submit a written report that will include a request for 'remediation termination' of the regulatory file.

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,

AC.W

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Geographical Location Map Figure 2 – NMOCD Approved Liner Figure 3 – MW Sampling Data

Figure 4 – EME Groundwater Contamination

Appendix A – Vadose Zone Activities Documentation Appendix B - MW Sampling Lab

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

Figures

Geographical Location Map



NMOCD Approved Liner



MW Sampling Data



EME Groundwater Contamination

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122 W. Taylor Hobbs, NM 88240 Phone (575) 393-9174 Fax (575) 397-1471

CI- concentration > 10,000 10,000 > CI- concentration > 5,000 5,000 > CI- concentration > 2,000 2,000 > CI- concentration > 700



Hypothetical CI- contamination area



This map was prepared for Rice Operating Company. This map represents the known chloride impact concentrations in the groundwater as of 2011. As conditions change and/or new monitor wells are added, the contamination plume will undergo permutations that will be reflected in future maps. Rice Operating Company does not assume any responsibility for the use of this information by others.

Figure 4

Drawing date: 12-15-09 Revision date: 5-1-12 Drafted by: Lara Weinheimer

Appendix A Vadose Zone Activities Documentation

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



March 26, 2012

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

RE: EME D-2 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 03/23/12 8:10.

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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/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.

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. Kune

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received: 0	03/23/2012	Sampling Date:	03/22/2012
Reported: 0	03/26/2012	Sampling Type:	Soil
Project Name:	EME D-2 BOOT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R36E-SEC2 D-LEA CTY., NM	•	

Sample ID: IMPORT SAND/WALLACH (H200707-01)

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	03/23/2012	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 client, its subsidiaries, affiliates or competition 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 claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced exception in full with writem approval of Cardinal Laboratores.

Celez D. Kerne

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim anising, 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 whetsoever shall be deemed waived unless made in writing and received by claims, including within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, writing within the liable to the performance of the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal laboratories.

Celug D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 4 of 4



March 29, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME - D2 - BOOT

Enclosed are the results of analyses for samples received by the laboratory on 03/28/12 9:45.

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.tceg.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/lab accredited certif.html.

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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 (V1, V2, V3)

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Sincerely,

Celey D.Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/28/2012	Sampling Date:	03/23/2012
Reported:	03/29/2012	Sampling Type:	Soil
Project Name:	EME - D2 - BOOT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MONUMENT, NM		

Sample ID: IMPORTED BLOW SAND (H200733-01)

Chloride, SM4500CI-B	mg/	kg	Analyzed	By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2012	ND	416	104	400	0.00	

Sample ID: IMPORTED CALICHE (H200733-02)

Chloride, SM4500Cl-8	mg	/kg	Analyze	d By: HM					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2012	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D.Kune

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 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

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326	AX (505) 393-2	476	(32	25) 67	3-70	01 F	AX	(32	5)673	8-7020													
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Page 4 of 4

RICE ENVIRONMENTAL CONSULTING & SAFETY

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



M	ODEL: PGM 7300	1
M	ODEL: PGM 7300	
М	ODEL: PGM 7320	1
M	ODEL: PGM 7600	ł

SERIAL NO: 590-000508 SERIAL NO: 590-000504 SERIAL NO: 592-903318 SERAIL NO: 110-013744

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : HAL-248-100-1	EXPIRATION: 7-1-2015
	•
METER READING	ACCURACY: 100 PPM

ACCURACY : +/- 2%

COMPANY	
Rice Operating Company	

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
		_			
EME	D-2 boot	D	2	20\$	36E

SAMPLE ID	PID	SAMPLE ID	PID
IMPORTED BLOW SAND	0.4		
IMPORTED CALICHE	. 0.0		,
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Koperta Jana SIGNATURE:

DATE: 3/23/12



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

		V	EGETAT	TION FOI	RM		
1. General II	nformation	•					
Site name:	EME D-2 Bo	oot					1
U/L	Section	Township	Range	County	Latitude		Longitude
D	2	20S ·	36E	Lea	N 32° 36.54	5'	W 103°19.865'
Contact Name 2	ZACH CONDI	ER			```		
Email Zconder(@rice-ecs.com						
Site size: 5,	,600 SQFT		Map deta	il of site attache	d 🗌		
Additional infor	mation:						
2. Soils	*Do not ri	p caliche subsoils	; caliche rocks bi	rought to the surfa	ace by ripping shai	ll be removed	1
Salvaged from s	ite 🗌 🛛 Bio	remediated 🗌	Imported	Blenc	led 🗌	Depth (ii	n):
Texture: Sandy	Des	cribe soil & sub	soil: Blow sand	d and subsoil ca	liche		
Soil prep metho	ds: Rip 🗌	Depth(in	1): Dis	c 🗌 Depth	(in): R	ollerpack 🗌]
Date completed:	3-26-12	·					
3. Bioremed	iation	*					
Fertilizer 🗌			Ha	у 🗌		Other 🗌	
Туре:						Describe:	
Lbs/acre:							
4. Seeding	*Attach se	ed bag tags to thi	s form. Seed bag	tags shall contain	the site name and	I S-T-R.	
Custom seed mi	x 🛛 🛛 Presci	ribed mix	Seed mix name	e: 5 lbs blue gra	ma, 5 lbs side	Seeding	date:
			oats grama, 5 l	bs horse oats		4-10-12	
Broadcast 🛛					· · · ·		
Method: mecha	anical seeder						
Soil conditions of	during seeding	: Dry 🛛	Damp 🗌 🛛 🛛	Vet 🗌			
Photos attached		Observations:					
Number of phot	os:						
5. Certificat	ion I hereby cer	tify that the information	ation in this form ar	nd attachments is tru	e and complete to th	e best of my k	nowledge and belief.
Name: ROBER	TO PARRA		Tit	tle: Environmen	ital Tech.	•	Date: 4-10-12
Signature:	Shert	- bang					
V	•	<i>.v</i> (~	*			
							•
					•		
	•						

EME D-2 boot (1R427-14) Unit Letter D, Section 2, T20S, R36E



Site prior to excavation, facing east

1/20/12



Excavation complete, facing west-northwest 3/21/12



Excavating site, facing west-northwest 3/20/12



Exporting soil, facing north-northwest 3/21/12



Importing blow sand, facing east

3/22/2012



Installed bottom 6" blow sand pad, facing southeast 3/21/12



Installing 62 x 51 ft 20-mil reinforced liner, facing east 3/22/12



Backfilling with imported caliche up to 4' BGS, facing south 3/23/12



Seeding site, facing southeast

4/10/2012



Installing top 6" blow sand pad above liner, facing northeast 3/22/12



Backfilling with imported top soil to ground surface, facing south 3/26/12



Site completed, facing east

4/13/12

Appendix B

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



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

February 29, 2012

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

RE: EME D-2 BOOT

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.

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,

Celegh -Kein

Celey D. Keene Lab Director/Quality Manager

7



Analytical Results For:

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

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/29/2012	Sampling Type:	Water
Project Name:	EME D-2 BOOT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R36E-SEC2 D-LEA CTY., NM		,

Sample ID: MONITOR WELL #1 (H200451-01)

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	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*	4200	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*	391	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*	7850	5.00	02/20/2012	ND	234	97.5	240	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/29/2012	Sampling Type:	Water
Project Name:	EME D-2 BOOT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R36E-SEC2 D-LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H200451-02)

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	110 %	6 70.7-118	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	3850	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*	282	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*	7340	5.00	02/20/2012	ND	234	97.5	240	0.00	,

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Celeg D. Kune

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 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	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page<u>1 of 1</u>

Teli(575) 393-2326 Fax (575) 393-2326 Fax (575) 393-2476 Company Name: RICE Operating Cc Project Manager: Hack Conder Address: (Street, City, Z 122 W Taylor Street ~ Hobt Phone #: (575) 393-9174: Project #: Project Location: T20S-R36E-Sec2 I	ompany ip) ps, New Mexico 88240 Project Name: EME D-2 Boot D ~ Lea County - New M	Fax#: (575)	BILL T RICE 122 W (575) 397-1	o Taylo 39	Comp Derat Addre r Stre Phone 3-91	any: ting`C ss: et~Ho #: 74		par New	ny Mexi	Stree co 8	9 et, Ci 8240 F	O#	c.					L	.AB (Orde AN Circl	r ID # ALY e or \$	sis Sis	RE fy M	QUE	E ST No	-)					
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