1-14 1R

WORKPLANS



Rice Environmental Consulting & Safety

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

RECEIVED OCD

CERTIFIED MAIL RETURN RECIEPT NO. 7008 1140 0001 3070 5795

July 7th, 2011

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: ICP Report and Corrective Action Plan (CAP) 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/usage basis.

Background and Previous Work

The site is located approximately 3 miles north-west of Monument, New Mexico at UL/G sec. 18 T19S R37E as shown on the Site Location Map (Figure 1). NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 52 +/feet, and after three quarters of monitor well sampling completed at the site, depth to groundwater has been determined to be 54 ft.

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 x 18 x 12 feet below ground surface (bgs) where composite samples were collected for laboratory verification. Laboratory tests of the site showed gasoline range organics (GRO) readings 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, and 4570 mg/kg in the remediated backfill. Chlorides at the site ranged from 126 mg/kg on the 4-wall composite, 617 mg/kg for the bottom composite at 12 ft bgs, and 298 mg/kg for the remediated backfill. BTEX was present in the 4-wall composite, the bottom composite and remediated backfill. At 6 feet bgs, a 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, and DRO was 266 mg/kg. BTEX readings at 20 ft were non-detect as well.

NMOCD was notified of potential groundwater impact on September 14th, 2004 and a junction box disclosure report (Appendix A) was submitted to NMOCD with all the 2004 junction box closures and disclosures.

ROC proposed additional investigative work at the site to determine if there was a potential for groundwater degradation from residual chlorides and/or hydrocarbons at the site.

Proposed Work Elements

- 1. Conduct vertical and lateral delineation of residual soil hydrocarbons and chlorides (see Appendix B for Quality Procedures).
 - a. Vertical sampling will be conducted until either one of the following criteria is met in the field.
 - i. Three samples in which the chloride concentration decreases and the third sample has a chloride concentration of ≤ 250 ppm.
 - ii. Three samples in which PID readings decrease and the third sample has a PID reading of ≤ 100 ppm.
 - iii. The sampling reaches the capillary fringe.
- 2. If warranted, install a monitor well to provide direct measurement of the potential groundwater impact at the site. (All monitor wells will be installed by EPA, NMOCD, and industry standards.)
- 3. Evaluate the risk of groundwater impact based on the information obtained.

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 (Figure 2). 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 (Appendix A). Laboratory readings showed chloride numbers ranging from a high of 848 mg/kg at 50 ft bgs in soil bore #2 to a low of <16 mg/kg at 10 ft bgs in soil bore #2 and at 15 ft bgs in soil bore #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 for 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 readings ranged from a high of 3,520 mg/kg at 15 ft bgs in SB #3 to a low of 22.3 mg/kg at 50 ft bgs in SB #2.

On December 6th, 2010, three monitor wells were installed at the site (Figure 3). Monitor well #1, the near-source monitor well, and Monitor well #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 monitor well #1 (5 ft and 45 ft bgs) were taken to a commercial laboratory for confirmation of field numbers. Monitor well #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 (Appendix B).

The monitor wells have been sampled three times since their installation (Figure 4). The wells were sampled on December 28th, 2010, March 4th, 2011, and May 31, 2011. As of the last sampling event, Monitor well #1 had a laboratory chloride reading of 550 mg/L, and a TDS reading of 1,560 mg/L. Monitor well #2 had a laboratory chloride reading of 44 mg/L and a TDS reading of 821 mg/L. Monitor well #3 had a laboratory reading of 80 mg/L and a TDS reading of 632 mg/L. All three monitor wells had BTEX levels of non-detect (Appendix C).

Recommendations

RECS submits the following as a Corrective Action Plan based on the data collected during the Investigation and Characterization phase of delineation.

Soil Remedy

The site has an existing clay liner measuring 20 ft x 18 ft at 6 ft bgs. ROC proposes to excavate the site to 44 ft x 49 ft by 4 to 5 ft bgs and properly seat a 20-mil, reinforced liner in the bottom of the excavation (Figure 5). The proposed liner will cover the existing clay liner installed at 6 ft bgs and will extend 10 ft beyond SB-2, SB-3, and SB-4 and will extend past SB-4 up to the newly installed concrete junction box. The liner will provide a barrier that will inhibit the downward migration of residual chlorides to groundwater. The soils placed above the liner will have a laboratory chloride reading no greater than 500 mg/kg and a field PID measurement below 100 ppm. Excavated soil will 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 will be prepared with soil amendments as needed and seeded with native vegetation. Vegetation above the liner will 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 Remedy

ROC proposed to conduct a 6-month source removal and test pumping program. The purpose of this pumping program is to determine if groundwater may be restored within a reasonable time and to assist in the evaluation of groundwater alternatives. The near-source monitoring well (MW-1) will be plugged and replaced with a 4 inch monitor well. Removed groundwater will be

used in pipeline maintenance operations. Once the test pumping program is complete, ROC will assess the program to determine the best option for site groundwater remediation.

Upon completion of the CAP work elements, ROC will submit a report to the OCD with recommendations.

ROC 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 RECS (575) 441-0431

Attachments:

Figure 1 – Site location map

Figure 2 – Soil bore information plat

Figure 3 – Monitor well installation plat

Figure 4 – Monitor well sampling plat

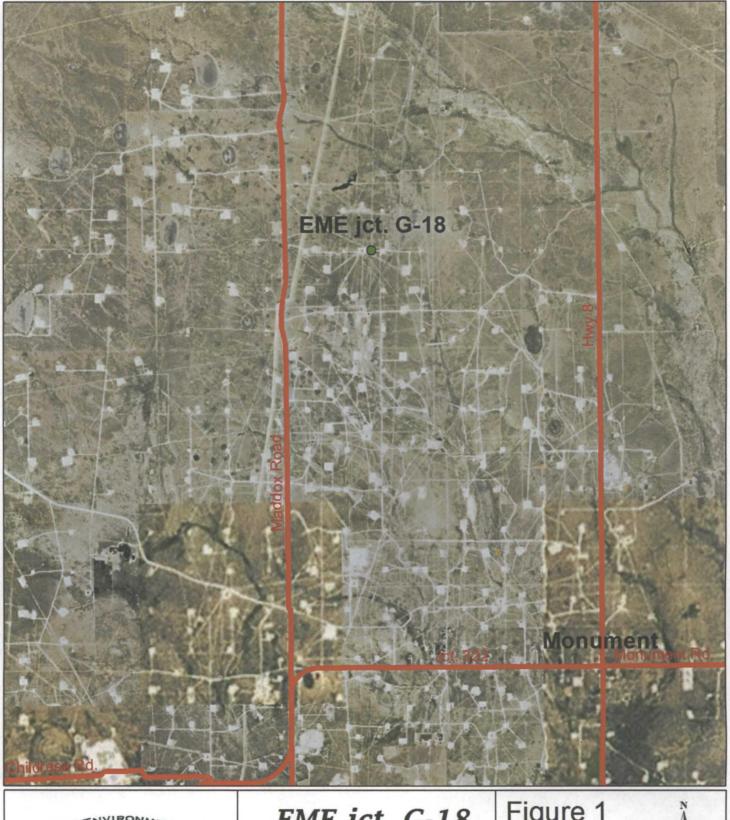
Figure 5 – Proposed liner plat

Appendix A – Soil bore and MW installation logs and labs Appendix B – Monitor well sampling analysis

Figures

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

Site Location





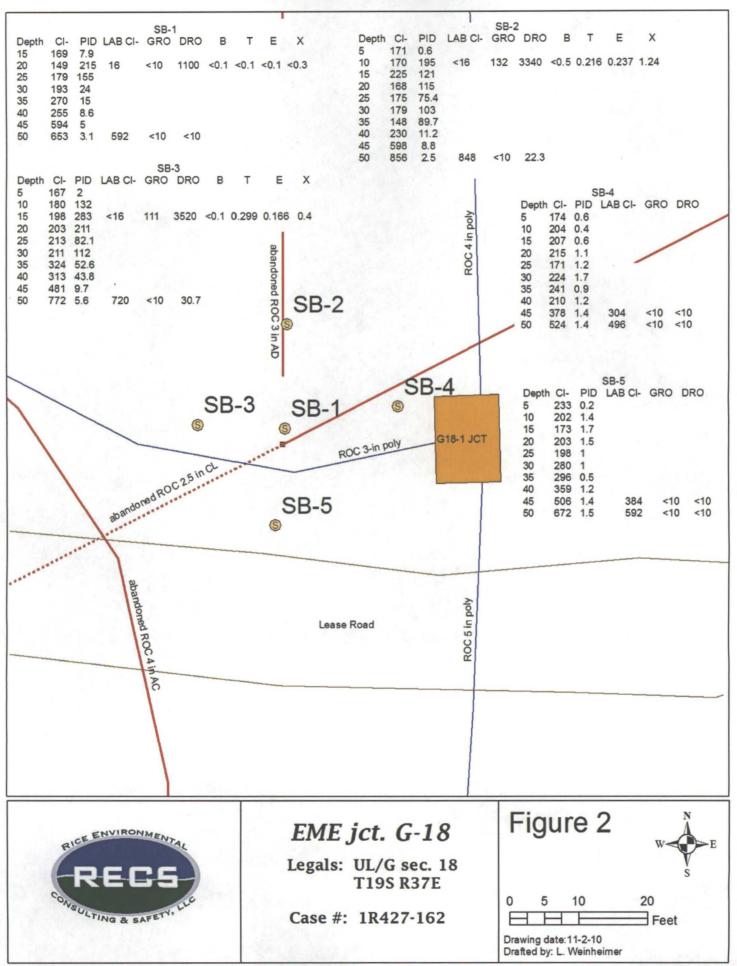
EME jct. G-18

Legals: UL/G sec. 18 T19S R37E

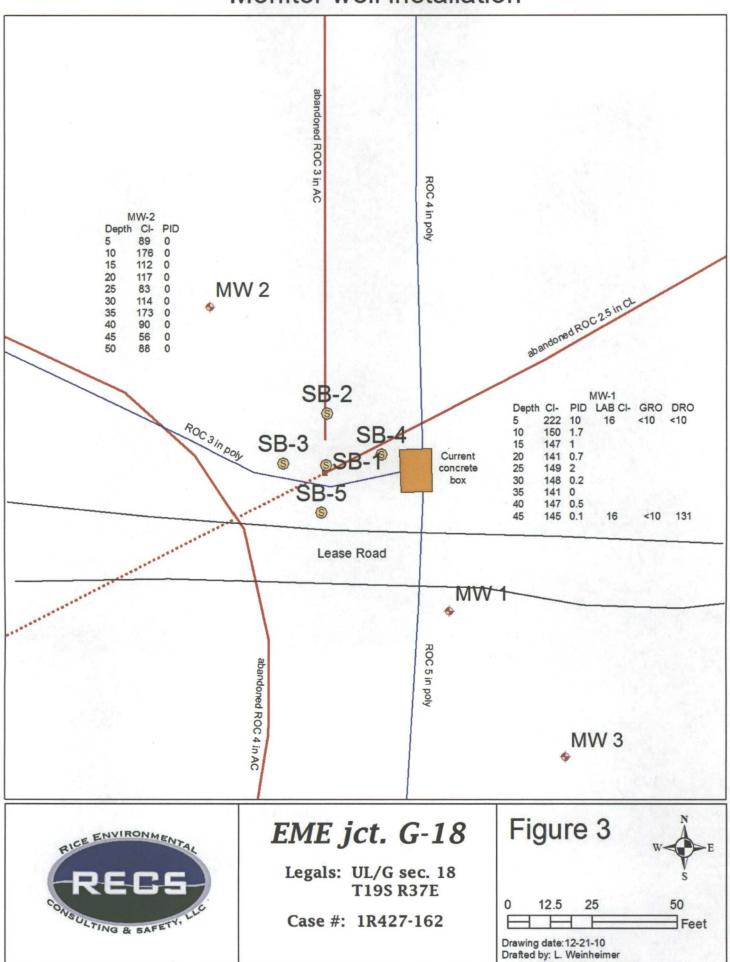
Case #: 1R427-162

6
6,000
Feet

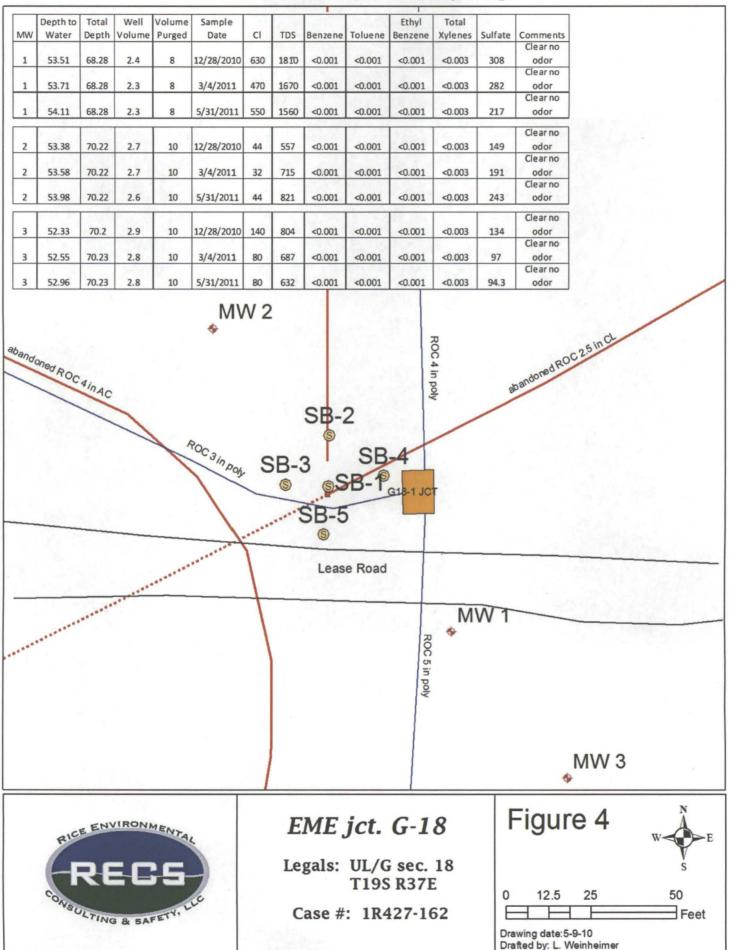
Soil bore information



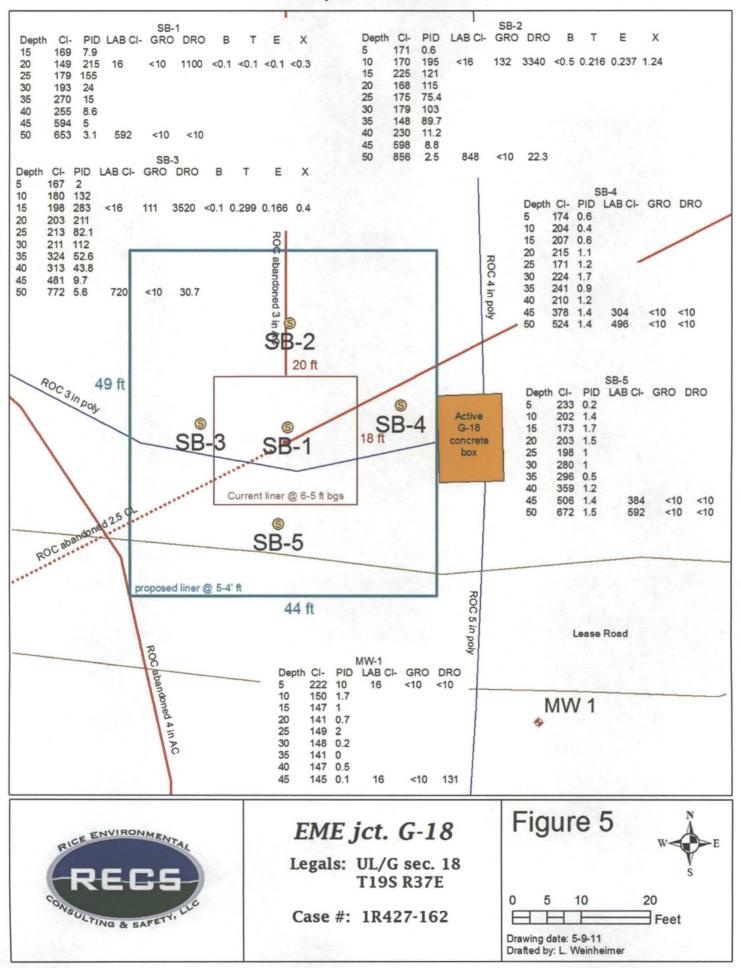
Monitor well installation



Monitor well sampling



Proposed liner



Appendix A Soil bore and MW installation logs and labs

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

Logger: Driller:		Jord Harrisor	dan Woo n & Coo		SB-2 SB-4	RECS CONSULTING & EAVENING		LE	
Drilling N Start Date End Date	e:):	1(1(Air rotar 0/22/20 0/22/20	10 10	SB-3 SB-1 SB-4 SB-5		oject Name: EME jct. G- oject Consulta	18 nt: RECS	
Comme		AI	II samp DRAFT	oles we	f the former junction box site. re from cuttings. L. WEINHEIMER GW = 50 ft	Lat	cation: UL/G s a: 32°39'44.046 ng: 103°17'23	"N	19S R37E County: LE/ State: NM
Depth (feet)	chlori field te		LAB	PID	Description		Lithology	Well	Construction
12					Dark brown fine sand with multiple sandstone fragments.				
15 ft	169)		7.9					
			CI-		Dark grey fine sand with sandstone fragments/hydrocarbon odor.				
20 ft B <0	149).1 T<0.		16 GRO <10 DRO	215.0	Tan fine sand with cemented				
E <0 25 ft	0.1 X <0. 179		1100	155.0	sandstone fragment/hydrocarbon odor.				
2311	175			133.0					
30 ft	193	3	2	24.0					
					Light brown very fine sandy loam with sandstone rubble.				bentonite seal
35 ft	270)		15.0					
40 ft	255	;		8.6					
				-	Tan sandy loam.				
45 ft	594			5.0	ran sandy loan.				
50 ft	653		CI- 592	3.1					
			GRO <10 DRO <10						

Logger: Driller:	riller: Harrison & Cooper, Inc. rilling Method: Air rotary tart Date: 10/22/2010 nd Date: 10/22/2010			SB-2 SB-4		R	ECS	ł
Start Date			10 10	SB-3 SB-1 SD 9	Project Name: EME jct. G-18 Project Consultant: REC		-18 ant: RECS	
Comme	TD = 5	All sam DRAF	ples we	he former junction box site. ere from cuttings. L. WEINHEIMER GW = 50 ft				County: LEA
Depth (feet)	chloride field tests	LAB	PID	Description		Lithology	Well (Construction
				Dark brown coarse sand with				
5 ft	171		0.6	sandstone fragments.				
		1		Yellowish tan fine sand with cemented sandstone				
10 ft	170	Cl- <16	195.0	fragments/hydrocarbon odor.				
B <0.0	5 T 0.216	GRO 132 DRO						
E 0.23	31000	3340						
15 ft	225		121.0	Tan very fine grain				
20 ft	168		115.0	sand/hydrocarbon odor.				
				Tan coarse sand with cemented sandstone rubble.				
25 ft	175		75.4	sandstone rubble.				bentonite
20.4	170		102.0					seal
30 ft	179		103.0	Light red fine sand with cemented				
35 ft	148		89.7	sandstone fragments.				15.
40 ft	230		11.2					

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
45 ft	598		8.8	Red sandy loam.		
45 11	298		0.0			
50 ft	856	CI- 848 GRO	2.5			
		<10 DRO 22.3				

Logger:Jordan WoodfinDriller:Harrison & Cooper, Inc.Drilling Method:Air rotaryStart Date:10/22/2010End Date:10/22/2010		Harrison & Cooper, Inc.		SB-4		R	ECS	6	
		10 10	SB-3 SB-1 SB-5	Project Name: Well ID: EME jct. G-18 SB-3 Project Consultant: RECS			SB-3		
Comme			All sam	ples we	he former junction box site. ere from cuttings. L. WEINHEIMER GW = 50 ft	Lat	cation: UL/G : 32°39'44.056 ng: 103°17'23	5"N	County: LEA State: NM
Depth (feet)	chlori field te		LAB	PID	Description		Lithology	Well	Construction
					Dark brown coarse sand and cemented sandstone fragments.				
5 ft	167	7		2.0					
10 ft	180)		132.0					
15 ft	198	3	Cl- <16	283.0	Grey sand and sandstone.				
B <0.1	T 0.	299	GRO 111			1			
E 0.16	6 X (0.4	DRO 3520						
20 ft	203	3		211.0					
					Tan cemented sandstone and some coarse sand.				
25 ft	213	3		82.1					
									seal
30 ft	211			112.0					
					Tan very fine sand and sandstone fragments.				
35 ft	324	ļ.		52.6					
40 ft	313	3	1. A. I.	43.8					

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red sandy loam.		
45 ft	481		9.7			
50 ft	772	CI- 720	5.6			
		GRO <10				
		DRO 30.7				

Logger: Jordan Woodfin Driller: Harrison & Cooper, Ir Drilling Method: Air rotary Start Date: 10/25/2010 End Date: 10/25/2010		Harrison & Cooper, Inc.		Harrison & Cooper, Inc.		SB-4	- F	RECS
		10	SB-5	Project Name: EME jct. 0 Project Consul	tant: RECS			
Comme			All sam	ples we	e former junction box site. re from cuttings. L. WEINHEIMER GW = 50 ft	Location: UL/0 Lat: 32°39'44.07 Long: 103°17'2	G sec. 18 T19S R37E 75"N County: LEA	
Depth (feet)	chlor field to		LAB	PID	Description	Lithology	Well Construction	
					Tan coarse sand and cemented sandstone fragments.			
5 ft	174	4		0.6	sandstone fragments.			
10 ft	204	4		0.4				
15 ft	207	7		0.6	Yellowish tan fine sand.			
20 ft	215	5		1.1				
					Tan fine sand.			
25 ft	171	1		1.2			bentonite	
30 ft	224	1		1.7			seal	
35 ft	241	1		0.9				
40 ft	210)		1.2	Tan sandy loam with sandstone fragments.			
45 ft	378		CI- 304	1.4				

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
. N. 19		GRO <10				
-		DRO <10		Red sand. Moist.		
50 ft	524	Cl- 496	1.4			
	1997	GRO <10				
12.3	and the second	DRO <10				

Driller: Harrison & Cooper, Inc. Drilling Method: Air rotary Start Date: 10/25/2010 End Date: 10/25/2010 Comments: Located 11 ft south of t All samples wer		Drilling Method: Start Date: End Date:		od: Air rotary 10/25/2010		Harrison & Cooper, Inc. Air rotary 10/25/2010 10/25/2010 Located 11 ft south of t			Project Nam EME jo Project Con Location: U	et. G-18 sultant: RE0 IL/G sec. 18	Well ID: SB-5 CS T19S R37E
Depth	TD chlori	= 50 de	ft		L. WEINHEIMER GW = 50 ft	Lat: 32°39'43 Long: 103°1	17'23.511"W				
(feet)	field te		LAB	PID	Description	Litholog	y Wel	Construction			
					Caliche and cemented sandstone. Hard.						
5 ft	233			0.2							
				-	Tan sand and coarse sandstone						
10 ft	202		Par	1.4	fragments.						
				<u></u>							
15 ft	173			1.7							
199											
20 ft	203			1.5	Cemented sandstone and caliche.						
			7-184-1 1								
25 ft	198			1.0			\neg	bentonite			
								seal			
30 ft	280			1.0							
35 ft	296			0.5							
					Tan fine sand. Caliche and						
40 #	250		-	10	sandstone fragments.						
40 ft	359		397.1	1.2							

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
		CI-				
45 ft	506	384	1.4			
		GRO				
		<10				
		DRO				
		<10				
50 ft	672	CI- 592	1.5			
50 11	012	GRO	1.5			
	5. M. Max 157	<10				
-		DRO				
	1.11.11.11	<10				

November 01, 2010

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

RE: EME JCT G-18

Enclosed are the results of analyses for samples received by the laboratory on 10/25/10 8:19.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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 Acıds (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (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,

Celux

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:	10/25/2010	Sampling Date:	10/22/2010
Reported:	11/01/2010	Sampling Type:	Soil
· Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		1

Sample ID: SB #1 @ 20' (H021138-01)

BTEX 8260B	mg/	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/28/2010	ND	1.01	101	1.00		
Toluene*	<0.100	· 0.100	10/28/2010	ND	0.995	99.5	1.00		
Ethylbenzene*	<0.100	0.100	10/28/2010	ND	1.08	108	1.00		
Total Xylenes*	<0.300	0.300	10/28/2010	ND	3.11	104	3.00		
Surrogate Dibromofluoromethane	- 84.8	% 80-120							
Surrogate: Toluene-d8	937	% 80-120							
Surrogate 4-Bromofluorobenzene	96 2	% 80-120				-			
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	10/25/2010	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	' % Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/25/2010	ND	170	85.2	200	12.2	
DRO >C10-C28	1100	10.0	10/25/2010	ND	194	96.8	200	12.2	
Surrogate: 1-Chlorooctane	93 5	% 70-130	لا						
Surrogate 1-Chlorooctadecane	106 9	% 70-130			,				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

`		Rice Opera Hack Conc 112 W. Ta Hobbs NM	ylor		
		Fax To:	(575) 397-1471	·	
Received:	10/25/2010			Sampling Date:	10/22/2010
Reported:	11/01/2010			Sampling Type:	Soil
Project Name:	EME JCT G-18			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18			· ·	

Sample ID: SB #1 @ 50' (H021138-02)

nk BS 416 	% Recovery 104 % Recovery	True Value QC 400 True Value OC	RPD 3.92	Qualifier
nk BS	% Recovery	True Value OC		
nk BS	% Recovery	True Value OC		
	•	mac value QC	RPD	Qualifier
170	85.2	200	12.2	
194	96.8	200	12.2	
	194	194 96.8	194 96.8 200	194 96.8 200 12.2

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	10/25/2010	Sampling Date:	10/22/2010
Reported:	11/01/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: SB #2 @ 10' (H021138-03)

BTEX 8021B	mg,	/kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
Benzene*	<0.050	0.050	10/29/2010	ND	2.05	102	2.00		
Toluene*	0.216	0.050	10/29/2010	ND	1.85	92.4	2.00		
Ethylbenzene*	0.237	0.050	10/29/2010	ND	1.75	87.3	2.00		
Total Xylenes*	1.24	0.150	10/29/2010	ND	5.25	87.4	6.00		

Chloride, SM4500Cl-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	10/25/2010	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	132	10.0	10/25/2010	ND	170	85.2	200	12.2	
DRO >C10-C28	3340	10.0	10/25/2010	ND	194	96.8	200	12.2	
Surrogate 1-Chlorooctane	104	% 70-130	,						
Surrogate 1-Chlorooctadecane	103	% 70-130							

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*=Accredited Analyte

PLEASE NOTE. Liability and Damages. Cardinal's lability 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 waved unless made in writing and received by claimal, and thirth (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 subsidianes, affiliates or successors and on or of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based unover statef associators or otherwses. Results relate only to the samples totified above. This reproduced exception in full with mitten approval of Cardinal Laboratores.

Celey D. Keene, Lab Director/Quality Manager

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

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Reported:	11/01/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: SB #2 @ 50' (H021138-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/25/2010	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/25/2010	ND	170	. 85.2	200	12.2	
DRO >C10-C28	22.3	10.0	10/25/2010	ND	194	96.8	200	12.2	
Surrogate: 1-Chlorooctane	99.7	% 70-130		<u></u>					
Surrogate [•] I-Chlorooctadecane	105	% 70-130			·				

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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:	10/25/2010	Sampling Date:	10/22/2010
Reported:	11/01/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN EME JCT G-18	Sample Received By:	Jodi Henson

Sample ID: SB #3 @ 15' (H021138-05)

BTEX 8260B	mg/l	g	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/28/2010	ND	1.01	101	1.00		
Toluene*	0.299	0.100	10/28/2010	ND	0.995	99.5	1.00		
Ethylbenzene*	0.166	0.100	10/28/2010	ND	1.08	108	1.00		
Total Xylenes*	0.400	0.300	10/28/2010	ND	3.11	104	3.00		
Surrogate: Dibromofluoromethane	89.7 %	6 80-120							
Surrogate: Toluene-d8	976%	6 80-120							
Surrogate: 4-Bromofluorobenzene	96.2 %	6 80-120							
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2010	ND	416	104	400	3.92	
TPH 8015M	mg/k	g	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	111	10.0	10/25/2010	ND	170	85.2	200	12.2	
DRO >C10-C28	3520	10.0	10/25/2010	ND	194	96.8	200	12.2	
Surrogate: 1-Chlorooctane	108 %	70-130							
Surrogate: I-Chlorooctadecane	107 %	70-130							

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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:	10/25/2010	Sampling Date:	10/22/2010
Reported:	11/01/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: SB #3 @ 50' (H021138-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/25/2010	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/25/2010	ND	170	85.2	200	12.2	
DRO >C10-C28	30.7	10.0	10/25/2010	ND	194	96.8	200	12.2	
Surrogate 1-Chlorooctane	101	% 70-130							
Surrogate: I-Chlorooctadecane	106	% 70-130					I		

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Celey D. Keene, Lab Director/Quality Manager

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

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Mariand, 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 Company					BILL TO ANALYSIS REQUEST																				
Project Manage	F: Hack Conder							P.0	. #:																
	Address: 122 West Taylor						Cor	npa	ny:						1		S								
City: Hobbs	•	Zip	: 88	3240)			Attr	ו:									Б							
Phone #: 575-								Adc	ires	s:								, Ni							
Project #:	Project Owner							City	<i>ı</i> :			-			Σ		T	SIA							
Project Name:	EME Jct G-18							Stat	te:			Zip:		<u>e</u>	S		ТРН	ű							
	n: EME Jct G-18							Pho	one	#:				Chlorides	801	втех	S T	Cațions/Anions							
	Jordan Woodfin		`					Fax				•					Texas	ő			ø				
FOR LAB USE ONLY		Γ.	Γ		M	ATRI	X		PRE	SER	<u>v</u>	SAMPLI	NG,	1	H		e.	e							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SUL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL		DATE	TIME		F			Complete							
H211398-1	SB # 1 @ 20ft		1		V	1				/		10/22/10	01:00	1	1	1									
2	SB # 1 @ 50ft		1		. V				!			10/22/10	01:30	1	1										<u> </u>
3	SB # 2 @ 10Ft	_	1		V	/						10/22/10	02:15	1	1	1									
4	SB # 2 @ 50ft .		1		V	4						10/22/10	03:00	✓	1								<u> </u>		<u> </u>
5	SB # 3 @ 15ft		1								_	10/22/10	03:30	1	1	✓									<u> </u>
lo	SB # 3 @ 50ft		1			1_			<u>l</u> .		_	10/22/10	04:00	<u> </u>								<u> </u>			<u> </u>
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Relinquished By: Date:,/ Received By:	Phone Result: 🛛 Yes 🖾 No 🛛 Add'l Phone #:
11.125/10	Fax Result: 🛛 Yes 🖾 No 🛛 Add'I Fax #:
Jordan Woodfin	REMARKS:
Relinquished By:	email results
B:19 / DOL MEMADEL	Hconder@riceswd.com; jwoodfin@riceswd.com;
Delivered By: (Circle One) // Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	Lweinheimer@riceswd.com kjones@riceswd.com

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

#26

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Page 9 of 9

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

October 27, 2010

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

RE: EME JCT G-18

Enclosed are the results of analyses for samples received by the laboratory on 10/25/10 16:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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.

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,

Celup

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: Reported:	10/25/2010 10/27/2010	Sampling Date: Sampling Type:	10/25/2010 Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: SB #4 @ 45 FT (H021145-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/26/2010	ND	416	104	400	3.92	
TPH 8015M	l mg/kg		Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2010	ND	168	84.1	200	2.09	
DRO >C10-C28	<10.0	10.0	10/26/2010	ND	221	111	200	0.403	
Surrogate 1-Chlorooctane	98 2	% 70-130							
Surrogate: 1-Chlorooctadecane	96 0	% 70-130				•			

Sample ID: SB #4 @ 50 FT (H021145-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/26/2010	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2010	ND	168	84.1	200	2.09	
DRO >C10-C28	<10.0	10.0	10/26/2010	ND	221	111	200	0.403	
Surrogate: 1-Chlorooctane	106	% 70-130	е њ. I				•		
Surrogate 1-Chlorooctadecane	105	% 70-130					•		

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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:	10/25/2010	Sampling Date:	10/25/2010
Reported:	10/27/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: SB #5 @ 45 FT (H021145-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/26/2010	ND	416	104	400	3.92	•
TPH 8015M mg/kg		Analyze	d By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2010	ND	168	84.1	200	2.09	
DRO >C10-C28	<10.0	10.0	10/26/2010	ND	221	111	200	0.403	
Surrogate: 1-Chlorooctane	106	% 70-130			•				
Surrogate [•] 1-Chlorooctadecane	103	% 70-130							

Sample ID: SB #5 @ 50 FT (H021145-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/26/2010	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2010	ND	168	84.1	200	2.09	
DRO >C10-C28	<10.0	10.0	10/26/2010	ND	221	111	200	0.403	
Surrogate: 1-Chlorooctane	107	% 70-130							
Surrogate [•] I-Chlorooctadecane	106	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(505) 393-2326_ FAX (505) 393-2476	(325) 673-7001 FAX (325)673-7020

Company Nam	e: Rice Operating Company						:*. :::	ofridi 20 2		3//	LL 70	14 jun 3 dia. Antoine antoi					ANAL	YSIS	RE	QUE	ST 🕤		
Project Manage	r: Hack Conder						P	.0. #	:														
· · · · ·								Cómpañy:									S						
City: Hobbs		Zip	: 88	324)		A	ttn:			-						5						
Phone #: 575-	393-9174. Fax #: 575-39	7-1	471				A	ddre	85:								I ni						
Project #:	Project Owner	:					c	ity:						Σ		T	s/F						
Project Name:	EME Jct G-18						s	tate:			Zlp:		<u>ě</u>	2		TPH	ü						
Project Locatio	n: EME Jct G-18						P	hon	ə #:			•	Chlorides	801	BTEX		te Cations/Anions						
Sampler Name	Jordan Woodfin						F	ax #					음			Texas							
FOR LAB USE ONLY			Γ		MA	TRIX		PR	ESE	RV.	SAMPLI	١G	10	H	-	ିତ							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER Soil	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				•	Complete						
HZ1145-1	SB # 4 @ 45ft		1								10/25/10	11:00	\checkmark	1									
2	SB # 4 @ 50ft		1	_		1		_	1		10/25/10	11:15	<u> </u>	1					<u> </u>				
	SB # 5 @ 45ft	L	1					_	1		10/25/10	12:00	<u>✓</u>	1					ļ				
.4	SB # 5 @ 50ft		1						1		10/25/10	12:10	✓	1									
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Relinquished By:	Date: Rece	ived By:		Phone Result: Ves No Add'l Phone #:
	10-25-6			Fax Result: 🛛 Yes 🖉 No . Add'I Fax #:
Jordan Woodfin	Time:			REMARKS:
Relinguished By:	Patens/10 Rece	ived By:		email results
	TUP	de Dem	son	
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	 Hconder@riceswd.com; jwoodfin@riceswd.com;
	ŭ	Cool / Intact		Lweinheimer@riceswd.com kjones@riceswd.com
Sampler - UPS - Bus - Other:		Yes -Yes	(Initials)	Ewenneamer@nceswu.com kjones@nceswu.com
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Logger:Jordan WoodfinDriller:Harrison & Cooper, IDrilling Method:Air rotaryStart Date:12/6/2010End Date:12/6/2010		son & Cooper, Inc. Air rotary 12/6/2010				Project Name: Well ID: EME jct. G-18 MW-1 Project Consultant: RECS							
Comme					t of the former junction box site. : L. Weinheimer GW = 50 ft	Lat	cation: UL/G s : 32°39'43.626 ng: 103°17'23	6"N	OS R37E County: LEA State: NM				
Depth (feet)	chlorid field tes		AB	PID	Description		Lithology	Well C	Construction				
5 ft	222	1	21- 6 RO	10	Light brown to tan fine sand and caliche								
		<" DF	10 RO 10		Tan to light brown silty sand								
10 ft	150			1.7				AC					
15 ft	147			1				2 in PVC					
20 ft	141			0.7	Tan silty sand and caliche fragments				bentonite				
25 ft	149			2					Seal				
					Light brown silty sand								
30 ft	148			0.2	Tan fine sand with cemented								
35 ft	141			0	sandstone fragments								
40 ft	147			0.5									

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Light brown very fine sand		
45 ft	145	CI- 16	0.1			
		GRO <10 DRO 131		NO SAMPLES TAKEN		
50 ft						sand
55 ft						pack
60 ft						
65 ft		1				

Start Date	riller: Harrison & Cooper, Inc. rilling Method: Air rotary tart Date: 12/6/2010 nd Date: 12/6/2010 Comments: Located 57 ft north we		Harrison & Cooper, Inc. Air rotary 12/6/2010 MW 3				Project Name: Well ID: EME jct. G-18 MW-2 Project Consultant: RECS Location: UL/G sec. 18 T19S R37E Lat: 32°39'44.505"N County:							
TD = 67 ft Depth chloride (feet) field tests LAB PID				PID	GW = 50 ft Description	Lo	ng: 103°17'23	8.88	883"W State: NM Well Construction					
5 ft	89			0	Tan very fine sand with small caliche fragments									
10 ft	176			0	Light brown very fine sand with large caliche framents		20020000000000000000000000000000000000							
15 ft	112			0	Tan very fine silty sand									
20 ft	117			0					2 in PVC	bentonite				
25 ft	83	X		0	Tan very fines sand with small caliche fragments					seal				
30 ft	114			0										
35 ft	173			0	Tan to red very fine sand with very small caliche fragments									
40 ft	90		1	0										
45 ft	56			0	Brown very fine sand									

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
			-	Light brown very fine silty sand		
50 ft	88		0			
	1.1.1	2		NO SAMPLES TAKEN		
55 ft						sand pack
60 ft						
65 ft						

Logger: Driller: Drilling M Start Dat	lethod:				MW 2 58-2 59-3 9-3 9-3 58-4 58-4 58-5 MW 1	Pre	R	ECS NG & BAFET	Well ID: MW-3					
End Date		12/6	6/2010		MW 3	Pr	oject Consulta	nt: RE	CS					
Comme	ents: Loca	ated 109	ft so	uth east	of the former junction box site.	Lo	cation: UL/G s	ec. 18	T19S R37E					
DRAFTED BY: I TD = 67 ft							Lat: 32°39'43.189"N County: LE/ Long: 103°17'22.686"W State: NM							
Depth (feet)	chlorid field tes		AB	PID	Description		Lithology		Well Construction					
5 ft														
10 ft														
15 ft			+											
20 ft					NO SAMPLES TAKEN									
2011			+						bentonite					
25 ft			+						seal					
30 ft			-	_										
			-											
35 ft			-											
40.5														
40 ft														

loride d tests	LAB	PID	Description	Lithology	Well Construction
					sand
					pack

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

December 09, 2010

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

RE: EME JCT G-18

Enclosed are the results of analyses for samples received by the laboratory on 12/07/10 7:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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.

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 DKune

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:	12/07/2010	Sampling Date:	12/06/2010
Reported:	12/09/2010	Sampling Type:	Soil
Project Name:	EME JCT G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME JCT G-18		

Sample ID: MW-1 @ 5' (H021462-01)

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	12/07/2010	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB		.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2010	ND	193	96.5	200	19.4	
DRO >C10-C28	<10.0	10.0 .	12/08/2010	ND	190	94.8	200	9.14	
Surrogate [•] I-Chlorooctane	105	% (70-130							
Surrogate. 1-Chlorooctadecane	104	% 70-130						ı	

Sample ID: MW-1 @ 45' (H021462-02)

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	12/07/2010	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2010	ND	193	96.5	200	19.4	
DRO >C10-C28	131	10.0	12/08/2010	ND	190	94.8	200	9.14	
Surrogate: 1-Chlorooctane	107	% 70-130							
Surrogate · 1-Chlorooctadecane	109	% 70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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		bany								ій- ст.,	BI	LL TO	dadi 1999 Lura Lura	1				ANAL	_YSIS	S RE	QUES	ST		
Project Manager: Hack Conder					F	?.0 .	#:									40								
Address: 122								c	Com	npany	/:							S	U U					
City: Hobbs		State: NM	Zip	: 88	24	00		A	Attn:							<u>o</u>	Thru							
Phone #: 575-	393-9174	Fax #: 575-39	97-1	471		A		A	١dd	ress:								An I	그			•		
Project #: Project Owner:						City	:			··	6	Σ		II	s/	<u>g</u>					i			
Project Náme:	Project Name: EME Jct G-18					s	State	e:		Zip:		Chlorides	15	×	TPH	5	Extended							
Project Locatio	n: EME Jct G-18							F	ho	ne #:	****	•		ĿĔ	H 8015	μ	5	ati	fei					1
Sampler Name:	Jordan Woodfin								ax					물		BTEX	Xa	U U	ΙÃ					
FOR LAB USE ONLY						MA	TRIX	<u>.</u>	P	RESE	ERV.	SAMPLI	NG	10	H		Texas	fe	Σ					
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE	OTHER :	DATE	TIME					Complete Cations/Anions	TPH 8015					-
KZ1462-1	MW-1 @ 5'		1	1			<u> </u>			1		12/6/10	08:30	1	1									
2	MW-1 @ 45'		9	1		<u> </u>	1	1			1	12/6/10	10:00	1	√			-		<u> </u>				
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Jordan Woodfin					Ć	C					REMARK				NU	14001	<u>. 04 .</u>					 		
Relinguished B	V:	Date	Re	ecei	ved	By:	<u></u>		1				email	res	ults									

Hconder@riceswd.com; jwoodfin@riceswd.com; Lweinheimer@riceswd.com kjones@riceswd.com

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

Time

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

CHECKED BY:

Sample Condition

Cool Intact Ves Yes No No

NEED SAMPLES BACK, PLEASE

Page 4 of 4

Appendix B Monitor well sampling analysis

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



4

June 04, 2011

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 06/01/11 13:15.

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	\checkmark
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.

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.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:	06/01/2011	Sampling Date:	05/31/2011
Reported:	06/04/2011	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 #1 (H101123-01)

BTEX 8021B	mg/	Ľ	Analyze	d By: CMS					
Analyte	Analyte Result		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/02/2011	ND	0.055	110 ·	0.0500	3.16	
Toluene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.51	
Ethylbenzene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.08	
Total Xylenes*	<0.003	0.003	06/02/2011	ND	0.160	107	0.150	3.14	
Surrogate: 4-Bromofluorobenzene (PIL	94.6%	6 80-120							
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	550	4.00	06/02/2011	ND	104	104	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	217	10.0	06/02/2011	ND	44.3	111	40.0	1.99	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



Analytical Results For:

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

Received:	06/01/2011	Sampling Date:	05/31/2011
Reported:	06/04/2011	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 #2 (H101123-02)

BTEX 8021B	mg/	/L	Analyze	d By: CMS					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/02/2011	ND	0.055	110	0.0500	3.16	
Toluene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.51	
Ethylbenzene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.08	
Total Xylenes*	<0.003	0.003	06/02/2011	ND	0.160	107	0.150	3.14	
Surrogate 4-Bromofluorobenzene (PIL	94 6	% 80-120)						
Chloride, SM4500Cl-B	mg/	′L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44.0	4.00	06/02/2011	ND	104	104	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	243	10.0	06/02/2011	ND	44.3	111	40.0	1.99	
TDS 160.1	mg/	<u>′L</u>	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	821	5.00	06/02/2011	ND	254	106	240	0.00	

Cardinal Laboratories

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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:	06/01/2011	Sampling Date:	05/31/2011
Reported:	06/04/2011	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., NN	1	

Sample ID: MONITOR WELL #3 (H101123-03)

BTEX 8021B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/02/2011	ND	0.055	110	0.0500	3.16	
Toluene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.51	
Ethylbenzene*	<0.001	0.001	06/02/2011	ND	0.054	108	0.0500	3.08	
Total Xylenes*	<0.003	0.003	06/02/2011	ND	0.160	107	0.150	3.14	
Surrogate: 4-Bromofluorobenzene (PIL	95.2 9	% 80-120)						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	4.00	06/02/2011	ND	104	104	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	94.3	10.0	06/02/2011	ND	44.3	111	40.0	1.99	
TDS 160.1				d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	632	5.00	06/02/2011	ND	254	106	240	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS						HUCL (2 40ml VOA)			ICE (1-1Liter HDPE)		Ē		MTBE 8021B/602	1B/60	1XL	s An C	als Ag	tiles	TCLP Semi Volat		1. 826	GC/MS Semi. Vol.	PCB's 8082/608	8081	Ы	Moisture Content	Cattons (Ca, Mg, Antons (Cl. SO4.		olved	Turn Around Time ~ 24 Hours
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Page 6 of 6

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