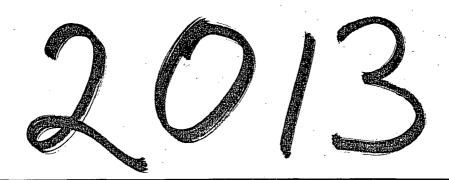
1R-427-336

APPROVALS





Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Monday, March 25, 2013 5:32 PM
То:	Hack Conder (hconder@riceswd.com)
Cc:	Leking, Geoffrey R, EMNRD; Laura Pena (Ipena@riceswd.com); Katie Jones
	<kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)</kjones@riceswd.com>
Subject:	Remediation Plan (1R427-336) Termination - ROC EME Jct P-17 Site

RE: Termination Request for the Rice Operating Company's EME Jct P-17 Site Unit Letter P, Section 17, T21S, R36E, NMPM, Lea County, New Mexico Remediation Plan (1R427-336) Termination

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated March 8, 2013 (received March 13, 2013). The reports are acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-336) is terminated in accordance with 19.15.29 NMAC.

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

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

Edward J. Hansen Hydrologist Environmental Bureau

RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 9279

March 8, 2013

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

MAR 1 3 2013

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Termination Request EME Jct. P-17 (1R427-336): UL/P, Sec. 17, T21S, R36E RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background

In 2010, ROC initiated work on the former P-17 junction box. The site is located in UL/P, Sec. 17, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately $170 \pm -$ feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 5x3x6 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 6 ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 64 mg/kg, a gasoline range organics (GRO) concentration below detectable limits and a diesel range organics (DRO) concentration of 20.2 mg/kg. The excavated soil was returned to the excavation and contoured to the surrounding area. On 7/13/2010, the site was seeded with a blend of native vegetation. Vegetation has rebounded at the site, so no re-vegetation efforts are needed. Vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of residual chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone. A junction box is no longer needed at the site.

The junction box site location map, final report, photodocumentation, laboratory analysis, PID sheet, chloride graph and current photodocumentation are attached.

Recommendations

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

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

1013 MAR 13 P 2: 27

RECEIVED OCD

Sincerely, RICE Operating Company

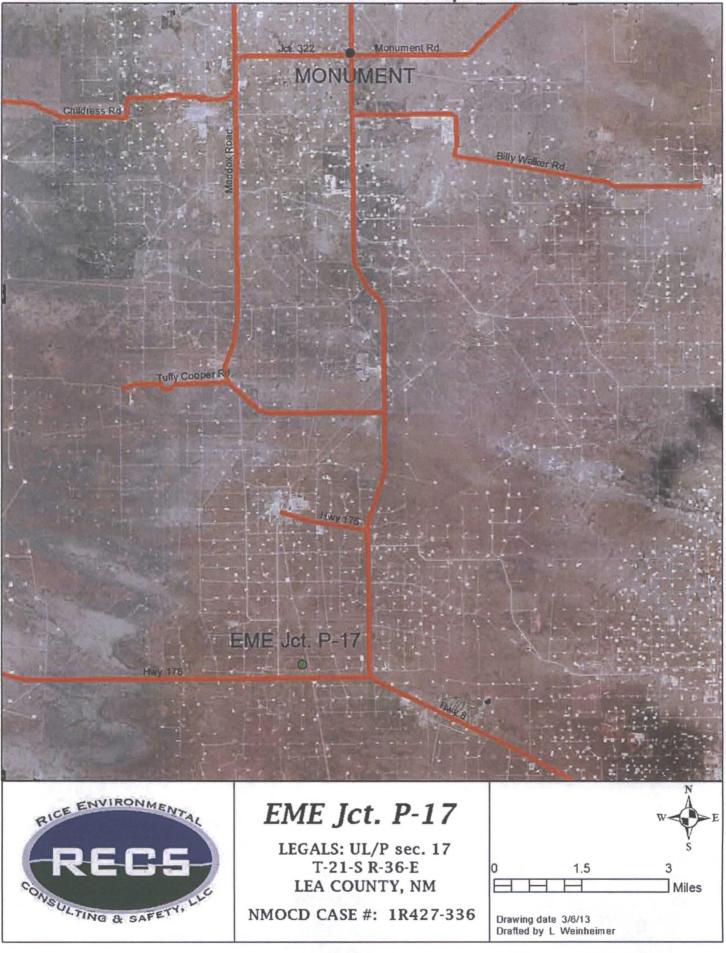
Hack Conder Environmental Manager

enclosures

Site Location Map

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

Site Location Map



Junction Box Report

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOXLOC	ATION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSION	S - FEET	
Eunice-Monument-	Jct. P-17	P	17	215	36E	Lêa	Lengui.	Width	De	epth
Eumont (EME)	JCI. #-17		F 17.5	,213	OOE	Lea		Eliminated	1	
									-	
LAND TYPE: B	BLM	STATE	FEE LAI	NDOWNER	Mo	ntý Morton,	OTHER			
						· · · ·		m		
Depth to Groun	dwater	170	feet	NMÓC	D SITE AS	SESSMENT	RANKING S	ORE:	0	
•			<u>.</u>							
Date Started	5/11/	2010	Date Cor	mpleted	5/11/2010	000	Witness	n	0	
	· · · ·		 	and a stream of the second		* **			·	
Soil Excavated	3.3	cubic yar	ds Exc	avation Ler	ngth 5	Widt	h3	Depth	6	fe
Soil Disposed	0	cubic yar	ds Of	isite Facility		N a	Location_		n/a	
				-	\$				-	
سعد العارية.	مئين ہے۔	a . Ta arana				•				
L ANALYTI	AL DE	CINTC.		le Date	5/11/20	1 A 4	Sample Der		6 ft.	

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

Sample	PID (field)	GRO	DRO -	Chloride
Location	ppm	mg/kg	img/kg	img/kg
SOURCE 6' GRAB	4.0	<10 0	20.2	64

General Description of Remedial Action: This junction box and line were eliminated

during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 5x3x6-ft-deep excavation. Chloride field tests performed on each sample yielded low concentrations similar to that of the background. Organic vapors

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
background	-6"	83
	2	151
vertical delineation	3'	143
trench at the	4'	87
junction (source)	-5 '	270
11	.6"	165

were measured using a PID, which yielded low concentrations. The deepest sample, 6 ft. BGS was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area: On 7/13/2010, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

Enclosures, photosynap resultsy rate and screenings without curve

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

SITE SUPERVISOR	Gerardo Martinez	Gerardo 1	Mallain_	COMPANY	RICE OPERATING COM	IPANY
REPORT ASSEMBLED BY	Lany Bruce Baker Jr.	ZBB		. •		•
	Larry Bruce Baker Jr.	Larry Bin	e Baler fr.	DATE	<u>∦=3]=1 </u>	

EME Jct. P-17



Site prior to excavation

5/11/2010



Sample being collected

5/11/2010

Unit P, Section 17, T21S, R36E



Delineation trench being excavated

5/11/2010



Seeding excavation

7/13/2010



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

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

Receiving Date: 05/11/10 Reporting Date: 05/13/10 Project Number: NOT GIVEN Project Name: EME JCT P-17 (19/36) Project Location: EME JCT P-17 (19/36) Sampling Date: 05/11/10 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: JH Analyzed By: AB/HM

GRO DRO

 (C_6-C_{10}) (> $C_{10}-C_{26}$) CI* (mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	05/13/10 (05/13/10)5/12/10
H19874-1 SOURCE 6FT	<10.0	20:2	64
			د
			<u>`</u>
Quality Control	484	469	500
True Value QC	500	.500	500
% Recovery	.96.8	93.8	ī1D0
Relative Percent Difference	<0.1	1.7	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M, CIT: Std. Methods 4500-CITB *Analysis performed on a 1:4 with aqueous extract. Reported on wet weight.

Chemis

Dale

H19874 TCL RICE

PELEASE:NOTE: Labellity and Damages, 'Cardinal's (soll), politikality, politikality, politikality and the procession of the politikality of the po

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

	-(505) 393-2326, FAX	(605) 393-247	76	(32	5).67	3-70	301	FAX	(32	5)6	73-	7020														
Company Name:			31	r p	a'n y			11	ruat		B //	LL TO		1 5					ANA	LYSI	S RE	QUE	ST			
Project Manager	Bruce Bak	Ker	•					P.	0. #	\$																
Address 72	z W. Taylor		*	-	-		,	Ċċ	bìmpì	a'ný	÷: `		· · · •							ł]				
city: 40.66	5	State: NM	Zip	8	87	240		A	th		•	······						1								
	5 -393-9174	ax#: 575	- 3	77	- 14	171	· · ·	Å	ddre	86:			······	7												
Project #:		Project Owner:			 	•		ĊI	ty:					1					-							
Project Name:	tella side	0-17: 1.7	ز ز منت	34	<u>, 1</u>			St	ate:		1	Zlp:					5									1
Project Location	والمستعمرين والمتعاد								none																	
Sampler Name:	Gerardo M	artiner.			• =		5 . N. R. E.	Fa	ix #	н -	- /- <u>1</u>						~		1							
FOR LAB USE ONLY			, .			MA	RIX	- <u>1-1-</u>	PR	ESE	RV.	SA,MI*L	ING]			0			1						
Lab I.D.	Sample I.C). 	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	solt.	01	SUUGLE:	ACID/BASE	ICE / COOL	1 12 1	DATE	TIME	-	70		TPH 8							-		
1-19874-1	Source	GPt	G	1				1	1 1	V.		5-11-1	10:3		2		Y	Γ		1		1	Í			
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Legans

BY:

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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

Delivered By: (Circle One)

Sample - UPS - Bus - Other:

#26

Sample Condition Cool / Intact Ves 2 Yes No No





RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:



Model: PGM 7300 Seria Model: PGM 7300 Seria Model: PGM 7300 Seria

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504 Model: PGM 7600 Model: PGM 7600 Model: PGM 7600

Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOTNO: 928547	EXPIRATION DATE: $2 - 4 - 2013$
FILL DATE:	METER READING ACCURACY: 100 PPM

ACCURACY : +/- 2%

SYSTEM	JUNCTION '	UNIT	SECTION	TOWN SHIP	RANGE
EME	P-17	P	17	T195	R36E

SAMPLE ID	PID	SAMPLE ID 1	PID
Back ground	5.3		
Back ground Source 2'	6.9	L.	
3'	23.5	1	
CJ`	2		
51	22		:
6'	4	COPY	•
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE Gerardo Martinez

DATE: 5-11-10

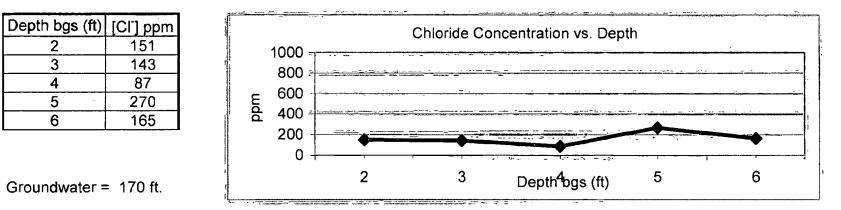
CHLORIDE CONCENTRATION CURVE

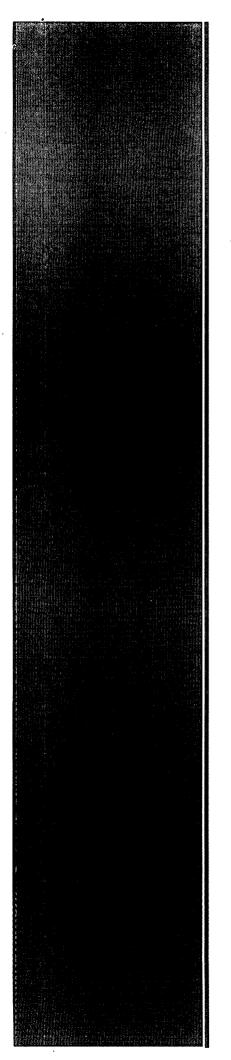
RICE Operating Company

EME Jct. P-17

Unit 'P', Sec. 17, T21S, R36E

Backhoe samples at the junction (source)





Current Photodocumentation

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

EME Jct. P-17 UL/P, Section 17, T21S, R36E



Facing north

2/22/2013



Facing south

2/22/2013



Infrastructure, buildings, environment, communications

Mr. Edward Hansen New Mexico Oil Conservation Division 1220 So. Saint Francis Drive Santa Fe, New Mexico 87505

Certified Mail Receipt No. 7002 2410 0001 5813 3876

Subject: 2012 ANNUAL GROUNDWATER REPORT NMOCD Case # 1R426-153 Blinebry-Drinkard (BD) N-32 Vent T21S, R37E, Section 32, Unit N, Lea County, New Mexico

Mr. Hansen,

On behalf of Rice Operating Company (ROC), ARCADIS respectfully submits this 2012 Annual Groundwater Report for the BD N-32 Vent site located in the Blinebry-Drinkard (BD) Salt Water Disposal (SWD) System.

One monitoring well was drilled at the site on October 6 and 7, 2008 following approval of the Investigation and Characterization Plan approved by NMOCD on May 28, 2008. A groundwater sample was collected from the monitoring well on November 13, 2008.

An ICP Report was submitted to NMOCD on April 22, 2009. The report recommended that one upgradient and one downgradient monitoring well be drilled at the site to assess groundwater quality. NMOCD approved the drilling of the two monitoring wells on June 24, 2009. The monitoring wells were drilled on July 9, 2009 and sampled on July 24, 2009.

A Monitor Well Report/Sampling Summary was submitted to NMOCD on September 22, 2009. The report recommended drilling one upgradient and one downgradient monitoring well to further delineate elevated chlorides near the site. NMOCD approved drilling the wells on September 30, 2009. The wells were drilled on September 21 and 22, 2009.

All wells were sampled quarterly per NMOCD guidelines. The attached tables summarize the analytical results from groundwater samples collected from the monitor wells at the site.

ARCADIS U.S., Inc. 1004 N. Big Spring Street Suite 300 Midland Texas 79701 Tel 432.687.5400 Fax 432.687.5401 www.arcadis-us.com

Date: March 21, 2013

Contact: Sharon Hall

Phone: 432 687-5400

Email: shall@arcadis-us.com

Part of a bigger picture

Corrective Action Plan Activities

In the CAP dated January 10, 2012 and approved by NMOCD on March 26, 2012, ROC presented estimations of chloride mass in groundwater and proposed liner dimensions. According to NMOCD's approval of the CAP, a groundwater recovery system installed at the former junction box location would remove a total chloride mass of 1,980 kilograms (kg). Groundwater recovery began on August 31, 2012. To date, approximately 430 barrels of chloride impacted groundwater have been removed. With a chloride concentration of 1,380 mg/L in MW-3, approximately 94.34 kg of chloride has been removed from groundwater. Chloride mass recovery from groundwater and quarterly monitoring well sampling will continue in 2013.

According to the NMOCD approved CAP, a modified 75x90-ft, 20-mil reinforced liner was installed and properly seated at approximately 25 ft bgs. An Excavation Summary and Soil Closure Request detailing the excavation activities was submitted to the NMOCD on September 4, 2012. NMOCD approved and granted soil closure on September 13, 2012. According to NMOCD's approval, no further action is required with regard to soils.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of the pipelines, wells or facilities. The BD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this summary of groundwater monitoring information. If you have any questions please do not hesitate to contact me or Hack Conder.

Best Regards,

ARCADIS U.S., Inc.

Show E. Have

Sharon E. Hall Associate Vice President

Copies: Hack Conder- ROC

Attachments: Monitor Well Summary Tables Monitor Well Location Figure Monitor Well Lab Results Record of Groundwater Recovery

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G: APROJECT/Rice Open/MT001015 BD N-32 Vent/2012 Annual Report/BD N-32 Vent Annual GW Report 2012.doc

Page: 2/2

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	1W	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	СІ	TDS	Bonzono	Toluene	Ethylbenzene		Sulfato
· IV		(feet)	(feet)	(gallons)	(gallons)	Sample Date		103	Defizerie	Toluelle		Total Aylenes	Sunate
	1	97.17	102.6	3.5	15	11/13/2008	2500	4970	<0.001	<0.001	<0.001	< 0.003	187
	1	97.18	102.68	3.6	15	1/21/2009	1540	3010	<0.001	<0.001	<0.001	< 0.003	130
	1	97.13	102.58	3.5	15	4/22/2009	1020	2210	< 0.001	<0.001	<0.001	< 0.003	119
	1	97.1	102.58	3.6	15	7/24/2009	930	2090	<0.001	<0.001	<0.001	< 0.003	112
	1	97.05	102.58	3.6	15	10/2/2009	1230	2440	<0.001	<0.001	<0.001	< 0.003	120
	1	96.99	102.63	3.7	15	1/25/2010	2120	4680	< 0.001	<0.001	<0.001	< 0.003	127
	1	96.98	102.63	3.7	15	4/23/2010	2800	4870	<0.001	<0.001	<0.001	< 0.003	184
	1	96.91	102.63	3.7	15	7/23/2010	3350	6170	< 0.001	<0.001	<0.001	< 0.003	168
	1	96.90	102.63	3.7	15	10/21/2010	3250	5530	<0.001	<0.001	<0.001	< 0.003	132
	1	96.84	102.65	3.8	15	2/10/2011	4400	7310	<0.001	<0.001	<0.001	< 0.003	171
	1	96.80	102.65	3.8	15 ·	5/12/2011	4000	6830	<0.001	<0.001	<0.001	<0.003	212
	1	96.74	102.65	3.8	15	8/8/2011	3200	5600	<0.001	<0.001	< 0.001	< 0.003	142
	1	96.77	102.65	3.8	15	11/2/2011	3100	5510	< 0.001	<0.001	<0.001	<0.003	170
	1	96.75	102.65	3.8	15	2/2/2012	2600	4680	<0.001	<0.001	<0.001	<0.003	230
	1	96.68	102.65	3.9	15	5/7/2012	1820	3650	<0.001	<0.001	<0.001	<0.003	157
	1	96.64	102.65	3.9	15	7/26/2012	2800	5300	< 0.001	<0.001	< 0.001	<0.003	101
	1	96.68	102.65	3.9	15	10/25/2012	2300	4560	< 0.001	<0.001	<0.001	< 0.003	163

-4

Sample results in milligrams per liter

.

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Banzana	Teluene	Ethylhenzono	Total Vulance	Cultata
	(feet)	(feet)	(gallons)	(gallons)	Sample Date		103	Denzene	roluene	Ethylbenzene	Total Xylenes	Sunate
2	99.78	105.96	1	4	7/24/2009	800	1920	<0.001	<0.001	< 0.001	< 0.003	190
2	98.73	105.96	1.2	4	10/2/2009	770	1970	<0.001	<0.001	<0.001	< 0.003	186
2	98.69	105.85	1.1	4	1/25/2010	820	1940	<0.001	<0.001	<0.001	< 0.003	214
2	98.68	105.85	1.1	4	4/23/2010	780	1760	<0.001	<0.001	<0.001	< 0.003	243
2	98.61	105.85	1.2	4	7/23/2010	840	2120	<0.001	<0.001	<0.001	< 0.003	238
2	98.55	105.85	1.2	4	10/21/2010	790	2170	<0.001	<0.001	< 0.001	< 0.003	214
2	98.54	105.93	1.2	5	2/10/2011	850	2070	<0.001	<0.001	<0.001	< 0.003	361
2	98.51	105.93	1.2	5	5/11/2011	900	2130	<0.001	<0.001	<0.001	< 0.003	341
2	98.46	105.93	1.2	5	8/8/2011	880	1970	<0.001	<0.001	<0.001	< 0.003	249
2	98.48	105.93	1.2	5	11/2/2011	860	1900	<0.001	<0.001	<0.001	< 0.003	208
2	98.44	105.93	1.2	5	2/2/2012	860	2040	<0.001	<0.001	<0.001	< 0.003	244
2	98.39	105.93	1.2	5	5/7/2012	820	2040	<0.001	< 0.001	<0.001	< 0.003	224
2	98.36	105.93	1.2	5	7/26/2012	1120	2370	<0.001	<0.001	<0.001	< 0.003	92.0
2	98.37	105.93	1.2	5	10/25/2012	790	2010	<0.001	<0.001	<0.001	<0.003	243

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Sample results in milligrams per liter

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	СІ	TDS	Benzono	Toluono	Ethylbenzene	Total Xulonos	Sulfato
	(feet)	(feet)	(gallons)	(gallons)	Sample Date		103	Denzene	Toluelle		Total Ayleries	Sullate
3	99.74	138.48	25.2	150	7/24/2009	2340	5220	<0.001	<0.001	<0.001	< 0.003	106
3	99.74	138.48	25.2	200	10/2/2009	6400	12,400	<0.001	<0.001	<0.001	< 0.003	127
3	99.65	138.58	25.3	150	1/25/2010	2020	3900	<0.001	<0.001	<0.001	< 0.003	116
3	99.67	138.58	25.3	150	4/23/2010	2500	4640	<0.001	<0.001	<0.001	< 0.003	193
3	99.58	138.58	25.4	80	7/23/2010	1800	3300	< 0.001	<0.001	<0.001	< 0.003	86.0
3	99.50	138.58	25.4	80	10/21/2010	940	2110	<0.001	<0.001	<0.001	< 0.003	74.9
3	99.49	138.58	25.4	80	2/10/2011	3250	5680	<0.001	<0.001	<0.001	< 0.003	115
3	99.47	138.58	25.4	80	5/12/2011	2650	4630	<0.001	<0.001	<0.001	< 0.003	114
3	99.44	138.58	25.4	80	8/8/2011	1000	1900	<0.001	<0.001	<0.001	< 0.003	93.2
3	99.38	138.58	25.5	80	11/2/2011	660	1480	<0.001	< 0.001	<0.001	< 0.003	94.3
3	99.42	138.58	25.5	80	2/2/2012	1500	2760	<0.001	<0.001	<0.001	< 0.003	81.6
3	99.40	138.58	25.5	80	5/7/2012	424	1150	<0.001	< 0.001	<0.001	< 0.003	212
3	99.32	138.58	25.5	80	7/27/2012	2100	4070	<0.001	<0.001	<0.001	< 0.003	114
3	-	138.58	-	Pumping	10/25/2012	1380	2660	<0.001	<0.001	<0.001	<0.003	91.0

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Sample results in milligrams per liter

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethylbenzene	Total Xylenes	Sulfato
	(feet)	(feet)	(gallons)	(gallons)	Oumpic Dute		100	Defizence	Tolucite	Lanyiberizerie	Total Aylenes	Cullate
4	98.90	138.80	25.9	200	10/2/2009	420	1170	<0.001	<0.001	<0.001	< 0.003	115
4	98.84	138.80	26.0	150	1/25/2010	216	807	<0.001	<0.001	< 0.001	<0.003	126
4	98.86	138.80	26.0	150	4/23/2010	72.0	492	<0.001	<0.001	<0.001	< 0.003	93.2
4	98.80	138.80	26.0	80	7/23/2010	148	607	<0.001	<0.001	<0.001	< 0.003	82.0
4	98.64	138.80	26.1	80	10/21/2010	72.0	489	<0.001	<0.001	< 0.001	< 0.003	90.3
4	98.62	138.80	26.1	80	2/10/2011	204	795	<0.001	< 0.001	<0.001	< 0.003	87.0
4	98.60	138.80	26.1	80	5/12/2011	64.0	484	<0.001	<0.001	<0.001	< 0.003	97.9
4	98.53	138.80	26.2	80	8/8/2011	72.0	478	<0.001	<0.001	<0.001	< 0.003	86.0
4	98.47	138.80	26.2	80	11/2/2011	92.0	575	< 0.001	<0.001	<0.001	< 0.003	91.8
4	-	138.80	-	Pumping	2/2/2012	140	664	<0.001	<0.001	<0.001	< 0.003	100
4	-	138.80	-	Pumping	5/7/2012	168	684	<0.001	< 0.001	<0.001	< 0.003	108
4	-	138.80	-	Pumping	7/27/2012	344	964	<0.001	<0.001	<0.001	<0.003	91.2
4	-	138.80	-	Pumping	10/25/2012	96.0	539	<0.001	<0.001	<0.001	<0.003	83.0

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Sample results in milligrams per liter

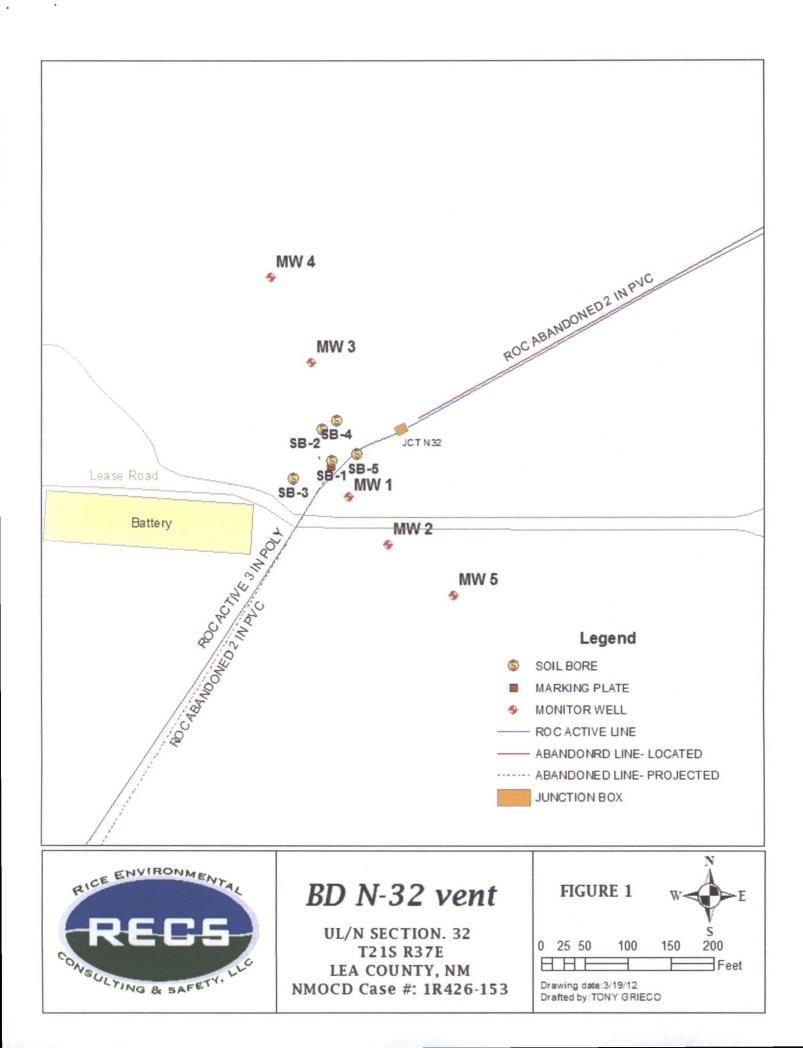
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MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	СІ	TDS	Benzene	Toluono	Ethylbenzene	Total Xylenes	Sulfato
	(feet)	(feet)	(gallons)	(gallons)	Sample Date	01	100	Denzene	Toluene	Linyidenzene	Total Aylenes	Sunate
5	98.09	110.2	1.9	6	10/2/2009	164	706	<0.001	<0.001	<0.001	<0.003	83.7
5	98.05	110.14	1.9	6	1/25/2010	132	623	<0.001	<0.001	<0.001	< 0.003	104
5	98.08	110.14	1.9	6	4/23/2010	128	580	<0.001	<0.001	<0.001	< 0.003	91.7
5	98.01	110.14	1.9	6	7/23/2010	120	615	<0.001	<0.001	<0.001	< 0.003	94.6
5	97.91	110.14	2.0	6	10/21/2010	116	561	<0.001	<0.001	<0.001	< 0.003	99.5
5	97.89	110.19	2.0	8	2/10/2011	120	542	<0.001	<0.001	<0.001	< 0.003	82.9
5	97.88	110.19	2.0	8	5/11/2011	108	573	<0.001	<0.001	<0.001	< 0.003	89.7
5	97.91	110.19	2.0	8	8/8/2011	124	559	<0.001	<0.001	<0.001	< 0.003	75.5
5	97.89	110.19	2.0	8	11/2/2011	108	554	<0.001	<0.001	<0.001	< 0.003	89.2
5	97.83	110.19	2.0	8	2/2/2012	100	536	<0.001	<0.001	<0.001	< 0.003	98.0
5	97.75	110.19	2.0	8	5/7/2012	108	568	< 0.001	<0.001	<0.001	< 0.003	243
5	97.71	110.19	2.0	8	7/26/2012	108	549	<0.001	<0.001	<0.001	<0.003	98.3
5	97.74	110.19	2.0	8	10/25/2012	92.0	520	<0.001	<0.001	<0.001	< 0.003	93.0

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Sample results in milligrams per liter



CARDINAL

November 02, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD N-32-VENT

Enclosed are the results of analyses for samples received by the laboratory on 10/25/12 16:40.

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,

Celeg & Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratóries

Analytical Results For:

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

Received:	10/25/2012	Sampling Date:	10/25/2012
Reported:	11/02/2012	Sampling Type:	Water
Project Name:	BD N-32-VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC32 N - LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H202612-01)

BTEX 8021B	mg/L		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/29/2012	ND	0.020	101	0.0200	3.82	
Toluene*	<0.001	0.001	10/29/2012	ND	0.022	110	0.0200	4.89	
Ethylbenzene*	<0.001	0.001	10/29/2012	ND	0.022	109	0.0200	5.48	
Total Xylenes*	<0.003	0.003	10/29/2012	ND	0.066	110	0.0600	5.90	
Total BTEX	<0.006	0.006	10/29/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Anatyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	2300	4.00	10/29/2012	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	163	10.0	10/30/2012	ND	16.2	< 81.1	20.0	21.2	
TDS 160.1	mg/	L ·	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
						97.5	240		

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8

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Analytical Results For:

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

Received:	10/25/2012	Sampling Date:	10/25/2012
Reported:	11/02/2012	Sampling Type:	Water
Project Name:	BD N-32-VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC32 N - LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H202612-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/29/2012	ND	0.020	101	0.0200	3.82	
Toluene*	<0.001	0.001	10/29/2012	ND	0.022	110	0.0200	4.89	
Ethylbenzene*	<0.001	0.001	10/29/2012	ND	0.022	109	0.0200	5.48	
Total Xylenes*	<0.003	0.003	10/29/2012	ND	0.066	110	0.0600	5.90	
Total BTEX	<0.006	0.006	10/29/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 89.5-12	6						· · ·
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	790	4.00	10/29/2012	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	243	10.0	10/30/2012	ND	16.2	81.1	20.0	21.2	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2010	5.00	10/30/2012	ND	234	97.5	240	1.43	
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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:	10/25/2012	Sampling Date:	10/25/2012
Reported:	11/02/2012	Sampling Type:	Water
Project Name:	BD N-32-VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC32 N - LEA CTY., NM		· .

Sample ID: MONITOR WELL #3 (H202612-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/29/2012	ND	0.020	101	0.0200	3.82	
Toluene*	<0.001	0.001	10/29/2012	ND	0.022	110	0.0200	4.89	
Ethylbenzene*	<0.001	0.001	10/29/2012	ND .	0.022	109	0.0200	5.48	
Total Xylenes*	<0.003	0.003	10/29/2012	ND	0.066	110	0.0600	5.90	
Total BTEX	<0.006	0.006	10/29/2012	ND					
Surrogate: 4-Bromofluorobenzene (P1D	109 9	% 89.5-120	6						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1380	4.00	10/29/2012	ND	100	100	100	3.92	
Sulfate 375.4	mg/	۲ ــــــ	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
-	Result 91.0	Reporting Limit	Analyzed	Method Blank ND	BS 16.2	% Recovery 81.1	True Value QC 20.0	RPD 21.2	Qualifier
Sulfate*		10.0	10/30/2012				-		Qualifier
Analyte Sulfate* TD\$ 160.1 Analyte	91.0	10.0	10/30/2012	ND			-		Qualifier Qualifier

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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:	10/25/2012	Sampling Date:	10/25/2012
Reported:	11/02/2012	Sampling Type:	Water
Project Name:	BD N-32-VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC32 N - LEA CTY., NM		

Sample ID: MONITOR WELL #4 (H202612-04)

BTEX 8021B	mg/l	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS.	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/29/2012	ND	0.020	101	0.0200	3.82	
Toluene*	<0.001	0.001	10/29/2012	ND	0.022	110	0.0200	4.89	
Ethylbenzene*	<0.001	0.001	10/29/2012	ND	0.022	109	0.0200	5.48	
Total Xylenes*	<0.003	0.003	10/29/2012	ND	0.066	110	0.0600	5.90	
Total BTEX	<0.006	0.006	10/29/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 89.5-12	6						
Chloride, SM4500Cl-B	mg/1	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	96.0	4.00	10/29/2012	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	83.0	10.0	10/30/2012	ŃD	16.2	81.1	20.0	21.2	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	539	5.00	10/30/2012	ND	234	97.5	240		

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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:	10/25/2012	Sampling Date:	10/25/2012
Reported:	11/02/2012	Sampling Type:	Water
Project Name:	BD N-32-VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC32 N - LEA CTY., NM		

Sample ID: MONITOR WELL #5 (H202612-05)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/29/2012	ND	0.020	101	0.0200	3.82	
Toluene*	<0.001	0.001	10/29/2012	ND	0.022	110	0.0200	4.89	
Ethylbenzene*	<0.001	0.001	10/29/2012	ND	0.022	109	0.0200	5.48	
Total Xylenes*	<0.003	0.003	10/29/2012	ND	0.066	110	0.0600	5.90	
Total BTEX	<0.006	0.006	10/29/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 89.5-12	6						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	92.0	4.00	10/29/2012	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	93.0	10.0	10/30/2012	ND	16.2	81.1	20.0	21.2	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	520	5.00	10/30/2012	ND	260	108	240	0.384	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.	
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

101 Easl Mariand - Hobbs, New Mexicu 285240 Tel (575) 393-2326	na	IL	la	bo	or	at	to	ri	es	5,	In	IC.		┝		C	HAI	LAB				YA		AN	AL	rSi	5 R		UES	<u> </u>		-
Fax (575) 393-2476 company Name:		BILL TO Company: PO#									ANALYSIS REQUEST												-									
RICE Operating Company	RICE Operating Company Address: (Street, City, Zip)									(Circle or Specify Method No.)																						
Hack Conder	122 W Taylor Street ~ Hobbs, New Mexico 88240]												
ddress: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240		(575		Phon 3-91							Fax#: (575)	397-1	471				ł															
hone #: (575) 393-9174	Fax #: (575)							//)		()			1		35)		001/00100														
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LAB #	duro	IERS			1		WC				(Bec)			/602	602	<1005		TCLP Metals Ag As Ba	5	Datile		GC/MS Vol. 8260B/624		89	Pesticides 8081A/608	_	Ma. P	Anions (CI, SO4, CC3, HCO3)		000	Turn Around Time ~	
FIELD CODE	(G)rab or (C)omp	# CONTAINER	~			щ	HCL (2 40mLVDA)		3		ICE (1-1L'Ler HOPE) NONE	DATE (2012)		80218/602	BTEX 8021E/602	B.1/T)	700	etais /	olatile	sticid		\ot. 8	Semi. Vol.	PCB's 8082/608	ss 80	BOD, TSS, pH	Moisture Content Cations (Ca, Mg, h	CI S		I otal Uissolved Chlorides	pund	
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Delivered By: (Circle One)	Sample Condition CHECKED BY:]						wei kich	nde	une beie	KD) Hend	102	-80	1.00	Ξī													
Sampler - UPS - Bus - Other:		Yes 🔛 Yes 😥 (Initials)											roza	nne	@v	alo	rnel	t.co	m													
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Record of Groundwater Withdrawal from MW-3 Site Name: BD N-32 vent (1R426-153)

			Lab Chloride		
Date	Fluid Hauled	(bbls)	Conc (ppm)	Remarks	
8/31/2012	efte en sof formen en kansen konstructuren sind herken sind herken sind herken sind herken sind herken sind her	a sing landa sa pangang ang ang ang ang ang ang ang ang a	2,35	0 Started Pumping MW-1	•
				Due to MW-1 well constru	ction, groundwater recovery began from MW-3
9/17/2012	70				
9/19/2012			1,30	0 MW-3	
9/27/2012	70				
Total For Aug/Sept		140 bbls	Total kg of Cl-	28.93568768	
		5880 gallons	Removed		
10/5/2012	40				
10/11/2012	40				
10/15/2012	40				
10/19/2012	60				
10/22/2012	50				
10/25/2012			1,38	0 MW-3 Quarterly Sample	
10/26/2012	60				
Total For Aug/Sept		290 bbls	Total kg of Cl-	94.34306081	
		12180 gallons	Removed		
Total for Project		430 bbls			
		18060 gallons			

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