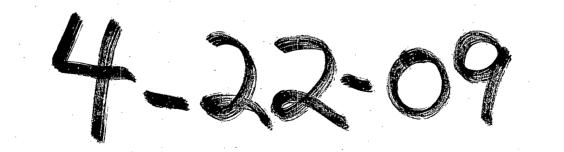
1R-426-153

REPORTS

DATE:





Infrastructure, buildings, environment, communication

2009 APR 27 PM 1 07

RECEIVED

Brad Jones New Mexico Oil Conservation Division 1220 So. Saint Francis Drive Santa Fe, New Mexico 87505

Certified Mail Receipt No. 7002 2410 0001 5813 0202

Subject: Investigation and Characterization Plan Report Blinebry-Drinkard (BD) Junction N-32 Vent T21S, R37E, Section 32, Unit N, Eunice, Lea County, New Mexico

Dear Mr. Jones;

RICE Operating Company (ROC) has retained ARCADIS U.S., Inc. (ARCADIS) to address potential environmental concerns at the above-referenced site. ROC is the service provider (agent) for the Blinebry-Drinkard (BD) 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 Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental projects of this magnitude require System Partners AFE approval and work begins as funds are received.

On behalf of ROC, ARCADIS respectfully submits this Investigation and Characterization Plan (ICP) Report for the above-referenced site.

SITE HISTORY AND BACKGROUND

The site is located west of the town of Eunice, New Mexico (Figure 1). Elevated chlorides in this area have been reported since as early as 1952 (Geology and ground-water conditions in southern Lea County, New Mexico [Groundwater Report 6 by A. Nicholson, Jr. and A. Clebsch, Jr.; United States Geological Society]). The expected depth to groundwater at this site is approximately 100 feet below ground surface.

The junction was eliminated and replaced with a new junction box located 80 feet northeast of the former junction box location (Figure 2). Initial delineation began in August, 2007 and was completed on November 2, 2007. A backhoe was used to collect soil samples at one foot intervals to a depth of 12 feet below ground surface five, ten and fifteen feet north, south, east and west of the junction box locations. Soil samples were analyzed in the field for chlorides using field-adapted Method 9253 and screened in the field using a photoionization detector (PID). Field analytical results are shown in Table 1.

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: April 22, 2009

Contact: Sharon Hall

Phone: 432.687.5400

Email: shall@arcadis-us.com

Brad Jones April 22, 2009

A backhoe was used to excavate soils from an excavation around the former junction box measuring 30 feet by 30 feet by 12 feet deep. A four-point wall composite sample was collected from each of the four walls and five-point composite sample was collected from the bottom of the excavation and submitted to Cardinal Laboratories for gasoline range organics (GRO) and diesel range organics (DRO) and chloride analysis. Some elevated PID readings were observed near the source. DRO was detected at a concentration of 57.8 milligrams per kilogram (mg/kg) in the four-point wall composite sample and at a concentration of 36 mg/kg in the five-point bottom composite sample. GRO was not detected. Field and Laboratory analytical results are summarized in Table 2.

Based on the results of the soil sampling analytical results, elevated chloride concentrations are present at the subject site (Figure 2).

The site was further excavated (40 feet by 45 feet by 5 feet deep along the perimeter) to allow for installation of a clay barrier in the 12 foot deep excavation. The excavated soils were blended on-site and returned to the excavation to a depth six feet below grade. A six-foot deep shelf extending five-feet from the north, south and west walls and ten-feet from the east wall was excavated to prepare the excavation for a clay barrier. A one-foot thick clay barrier was installed at a depth of 5 to 6 feet below ground surface. The clay layer was compacted to a dry density of 93.4% and 14% moisture. The remaining fill was used to backfill the excavation to ground surface and to contour the surrounding area. An identification plate was placed on the surface at the location of the former junction box to mark the presence of the clay liner.

A sample of the blended backfill material was submitted to Cardinal Laboratories for GRO, DRO and chloride analysis. GRO was detected at a concentration of 517 mg/kg and chlorides were detected at a concentration of 1,090 mg/kg.

To further investigate the depth of chloride impacts a soil boring (SB-1) was installed to a depth of 90 feet below ground surface at a location five-feet north of the former junction box. Soil samples were collected every five-feet and analyzed in the field for chlorides using field-adapted Method 9253 and screened in the field using a PID. One sample, collected from a depth of 90 feet below ground surface was submitted to Cardinal Laboratories and analyzed for chlorides. Laboratory analysis confirms the presence of an elevated chloride concentration (1,296 mg/kg) at a depth of 90 feet below ground surface.

ROC disclosed potential groundwater impact at the site to New Mexico Oil Conservation Division (NMOCD) via e-mail on December 6, 2007. A disclosure report was 'submitted to NMOCD with all of the ROC 2007 Junction Box Reports in March 2008 per the ROC Junction Box Upgrade Work plan.

On behalf of ROC, ARCADIS submitted an ICP to NMOCD on May 21, 2008. The plan proposed three tasks:

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INVESTIGATION AND CHARACTERIZATION PLAN

As discussed above existing site data suggest a potential for impairment of groundwater quality. Therefore the work elements described below are designed to assist ROC in selecting an appropriate vadose zone remedy and, if necessary, a groundwater remedy.

Task 1- Collect Regional Hydrogeologic Data

A one-half mile water well inventory that includes a review of water well records listed on the New Mexico State Engineer Office and United States Geological Survey (USGS) websites and windmills indicated on applicable USGS topographic maps.

Chloride impacted regional groundwater has been reported in this area near the towns of Eunice and Monument since as early as 1952 (Geology and ground-water conditions in southern Lea County, New Mexico [Groundwater Report 6 by A. Nicholson, Jr. and A. Clebsch, Jr.; United States Geological Society]).

Task 2- Evaluate Concentrations of Constituents of Concern in Soil and Groundwater

Installation of one monitoring well. If analytical results indicate that chloride and/or BTEX concentrations in groundwater exceed New Mexico Water Quality Control Commission standards, additional monitoring wells may be installed as warranted by the results of the investigation.

Additional soil borings were proposed approximately north, south, east and west of the former junction location.

Task 3- Evaluate Potential Flux from the Vadose Zone to Ground Water

As proposed in the ICP, the information gathered from Tasks 1 and 2 would be evaluated and utilized to design a groundwater remedy, if needed. The groundwater remedy that offers the greatest environmental benefit while causing the least environmental impairment will be selected. If the evaluation demonstrates that residual constituents pose no threat to groundwater quality, only a surface restoration plan protective of groundwater will be proposed. Such recommendations and findings will be presented to NMOCD in a subsequent Corrective Action Plan (CAP).

The proposed ICP was approved by NMOCD on May 28, 2008. On June 2, 2008, NMOCD was informed by email that an electromagnetic (EM) survey would be performed at this site to assist on placement of the proposed monitoring well and soil borings. On July 30, 2008 ARCADIS emailed NMOCD the results of the EM survey and informed NMOCD that there were no proposed changes to the approved monitoring well and soil boring locations as a result of the EM survey.

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ICP INVESTIGATION RESULTS

Four soil borings (SB 2 through SB 5) and one monitoring well were drilled at the site on October 6 and 7, 2008 (Figure 2). The soil borings were each drilled to a depth of 80 feet and the monitoring well was drilled to a depth of 100 feet. Soil samples were collected every five-feet and analyzed in the field for chlorides using field-adapted Method 9253 and screened in the field using a PID. Two samples from each boring were submitted to Cardinal Laboratories and analyzed for chlorides. Soil boring logs and the monitor well log are attached and include chloride field analysis results.

The monitoring well was constructed of 4 inch PVC casing with 20 feet of 0.01 inch slotted screen and a two-foot concrete pad. Groundwater was measured at a depth of 97.17 feet on January 1, 2009.

Laboratory and field analysis confirm that elevated chloride concentrations are present in soils at the site. Soil laboratory analytical results are summarized in Table 3. A groundwater sample collected on January 1, 2009 exhibited elevated chloride and total dissolved solids (TDS) concentrations (1,540 and 3,010 milligrams per liter, respectively). Laboratory analytical results are attached.

RECOMMENDATIONS

Based on the fact that elevated chloride concentrations in groundwater have been reported in the area since the early 1950s, we propose drilling one upgradient and one downgradient monitoring well at the site to assess groundwater quality. Groundwater samples will be collected and analyzed for chlorides and TDS. Based on the results of groundwater analysis ROC will submit their recommendations for further action if warranted.

Your approval to drill two monitoring wells in the approximate locations shown on Figure 3 is requested. If you have any questions or need additional information please contact Hack Conder at (575) 393-9174 or me.

Very Truly Yours,

ARCADIS U.S, Inc.

Shann E. Hard

Sharon E. Hall Associate Vice President

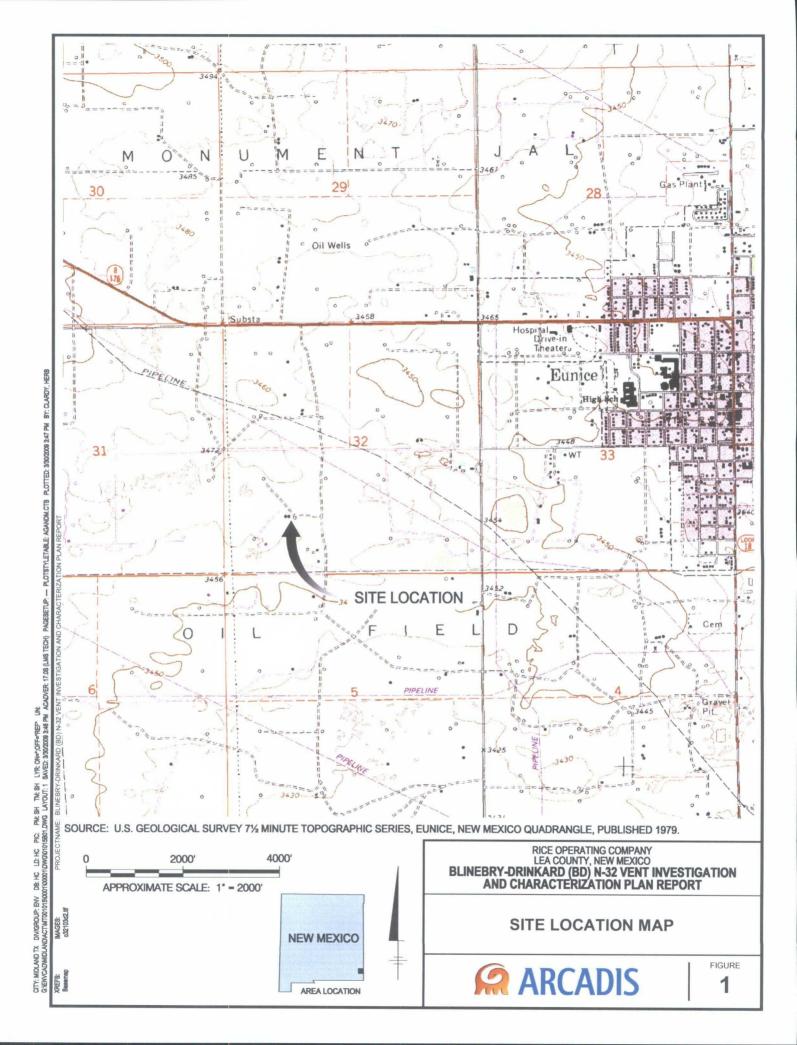
Brad Jones April 22, 2009

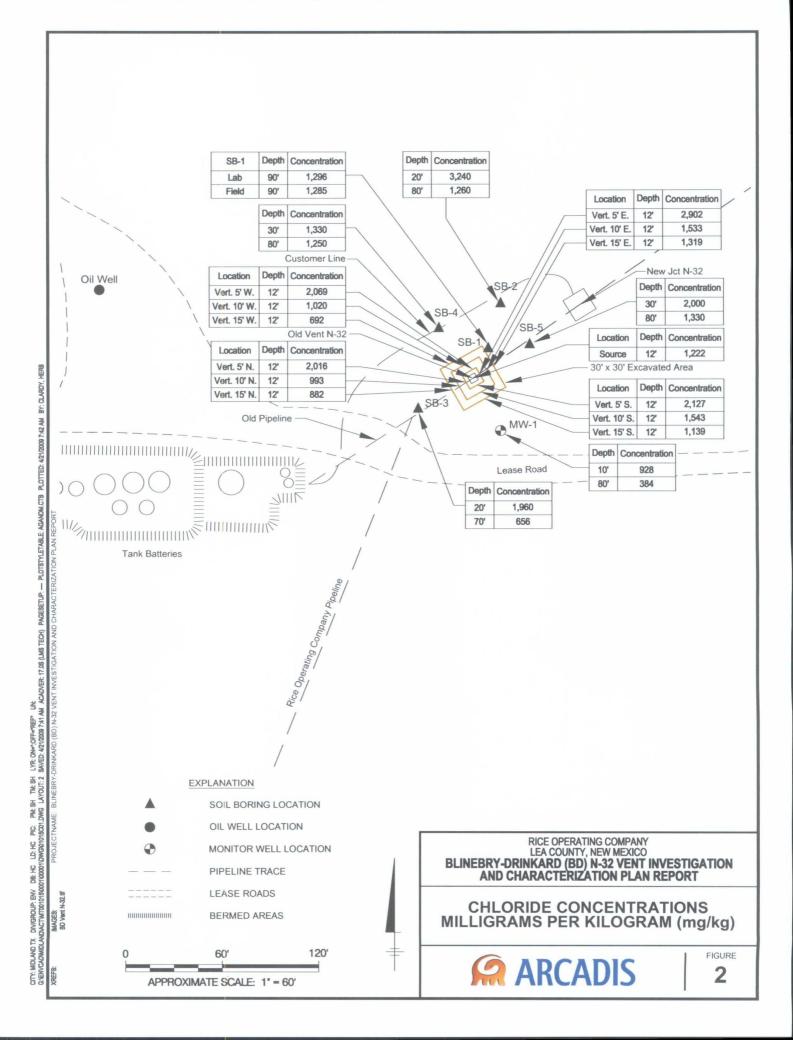
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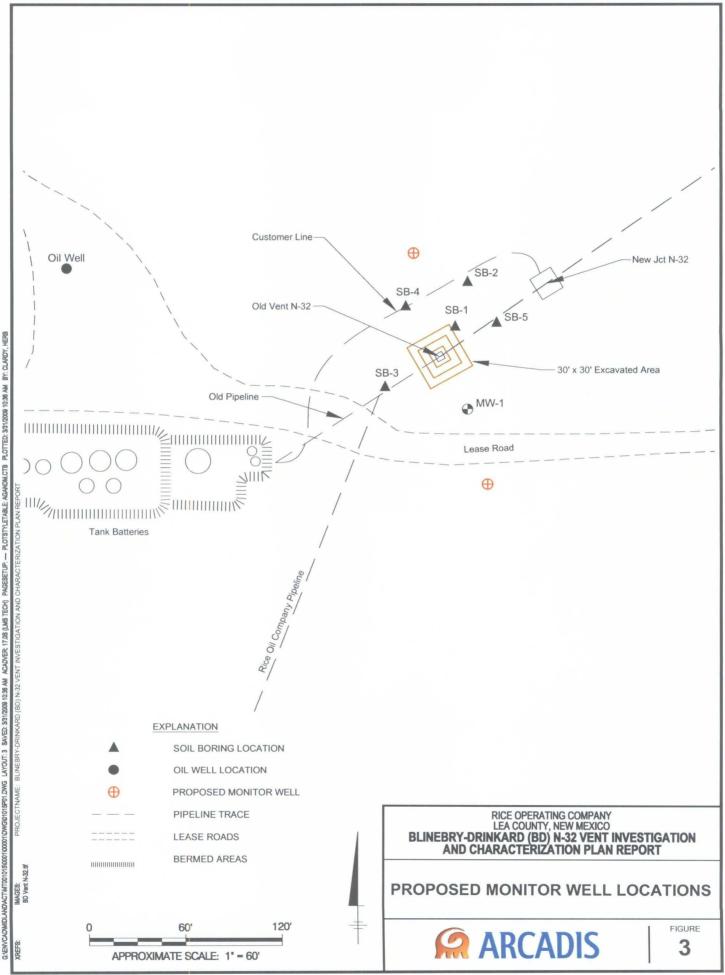
Hack Conder - Rice Operating Company

Attachments:

Figures 1, 2 and 3 Data tables 1, 2 and 3 October 2008 Investigation Laboratory Results Soil Boring and Monitoring Well Logs







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Table 1 - Soil Field Delineation Results

		Z	/S Deli	N/S Delineation CL	ר ר		
Depth	15' S	10' S	5, S	Source	5. N	10' N	15' N
1	230	259	150		272	247	286
5	180	211	· 139		289	321	332
ς,	260	621	1200		344	633	313
4	276	840	2437	435	258	1399	780
Ū.	175	2017	2127	603	258	1932	457
0	338	1748	2652	988	263	1162	625
7	455	1287	2043	2529	1315	4401	1874
ŝ	1829	581	1234	4294	2903	2220	1433
ð	639	686	1283	5288	1112	503	784
10	1587	1469	1239	2009	2015	685	1403
11	1494	1226	1041	5244	2973	1160	701
12'	1139	1543	886	1222	2016	993	882

		N	/S Delii	N/S Delineation PID	PID		
Depth	15' S	10' S	5, S	Source	5. N	10' N	15' N
1.	3.9	7.4	92.9		0.7	5.5	0
2	131	8.8	65		0	0	0
с,	50.2	49.9	179		0	0.8	0
4,	7.3	195	582	32.9	27.7	863	455
5	8.8	700	778	106	511	944	493
6	Q	584	1180	417	714	868	486
7'	0	316	860	892	754	512	204
8	0	76.9	1227	928	367	209	163
6	0	34.9	226	772	82.1	76.3	56.5
10'	0	22.5	1096	757	73.6	38.3	39.9
11	0	24.2	478	1124	28.4	23.9	10.1
12	0	106	292	333	18.5	23.3	13.1

		N	/E Deli	W/E Delineation Cl	ר ר		
Depth	15' W	10' W	2, W	Source	ы 2	10' E	15' E
-	253	194	400		143	432	145
Ň	299	148	660		260	213	306
'n	358	235	262		140	241	300
4	437	355	1092	435	168	292	782
ΩÎ	256	257	3529	603	447	2806	1646
Ū	290	268	3411	988	322	3048	3198
7	432	1537	1723	2529	1490	2061	2779
ō	973	3690	2443	4294	4618	2264	2738
<u></u>	1644	1835	2031	5288	2065	2972	3184
10	551	2822	1051	2009	994	1976	1115
11	598	1701	1389	5244	. 1848	1462	1554
12'	692	1020	2069	1222	2902	1533	1319

		N	/E Deli	W/E Delineation PID	PID		
Depth	15' W	10' W	5' W	Source	5' E.	10' E	15' E
-	16.3	8.9	44.5		29.9	4.6	2.3
Ň	7.7	7.8	80.3		23	3.5	0
õ	5.3	5.4	768		77.4	13.1	0
4	3.4	7.8	875	32.9	49.3	67.1	11.4
م آ	2.3	6.5	685	106	622	22.6	0
ō	1.5	6.6	846	417	902	377	0
7	4.6	6.1	718	892	1116	162	0
õ	2.5	4.6	891	928	1183	29.1	0
ð	2.5	6.2	1116	772	908	14.7	0
10	1.9.	3.3	929	157	1079	10.1	Ő
11	6.5	5.3	202	1124	1341	11.8	0
12'	2.5	2.6	118	333	790	13.6	0

Table 2- Soil Field and Lab	oora	tory Re	sults - E	and Laboratory Results - Excavation and Backfill Sampling	n and B	ackfill S	amp
Test		Fie	p			Lab Results	S
	С		PID		CL	DRO	GRO
Wall Composite Samples	z	834	170				
	S S	873	23.5				
	<u></u> Ш	986	12.6				
	 ≥	772	8.3				
4pt Wall Composite 30 x 30		976	106		688	57.8	
Blended Backfill		894	20.1		1090	517	₹0
		10101					_
bottom samples		1303					
	2	1311		1		-	
	ლ ო	1758		<u> </u>			
	4	1318					
	5	2754					
5pt Bottom Composite @ 12'		1708	8.8		2400	36	<10

Table 3

Soil Boring Sampling Chloride Results

Sample ID	Depth (feet)	Concentration (milligrams per kilogram)
SB #1	90	1,296
SB #2	20	3,240
SB #2	80	1,260
SB #3	20	1960
SB #3	70	656
SB #4	30	1,330
SB #4	80	1,250
SB #5	30	2,000
SB #5	80	1,330
MW-1	10	928
MW-1	80	384



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 10/17/08 Reporting Date: 10/17/08 Project Number: NOT GIVEN Project Name: BD N-32 VENT Project Location: BD N-32 VENT Analysis Date: 10/17/08 Sampling Date: 10/06/08 & 10/07/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: HM/TR

LAB NO.	SAMPLE 1D	Cl¯ (mg/kg)
H16132-1	MW #1 @ 10'	928
H16132-2	MW #1 @ 80'	384
H16132-3	SB #2 @ 20' .	3,240
H16132-4	SB #2 @ 80'	1,260
H16132-5	SB #3 @ 20'	1,960
H16132-6	SB #3 @ 70'	656
H16132-7	SB #4 @ 30'	1,330
H16132-8	SB #4 @ 80'	1,250
H16132-9	SB #5 @ 30'	2,000
H16132-10	SB #5 @ 80'	1,330
Quality Contro	n min na kanan manakan kanan dara 1997 saha ini sa sana ay sar sa manaka sa ku sana sa sa sana sana yang dag 	500
True Value QC	Anna ann an Anna an Anna an Anna an Anna an Anna A Anna Anna	500
% Recovery	n vargenergener sindningsverver verver, og lakter i sind som sind ververe sinder ververe som som som som som s	100
Relative Perce	nt Difference	< 0.1
METHOD: Stand	ard Methods	4500-CIB

METHOD: Standard Methods 4 Note: Analyses performed on 1:4 w:v aqueous extracts.

20-0 Date

H16132 RICE

GW 97.18

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

тит саят маггалд, ново (505) 393-2326 FAX (5 Сопралу Name: Rice Oberation Company	s, NM 88240 05) 393-2476	2111 Beechwood, Abilene, TX 79503 (325) 673-7001 FAX (325)673-7020 [2010] [2010] [2010] [2010]		ANALYSIS REQUEST
Project Manager: Hack Conder	a na manana	P.O.#:	Contraction of the second s	
Address: 122 West Taylor		Company:	Statement (Statement), see a	
city: Hobbs	State: NM Zlp: 88240	Attn:		
Phone #: 393-9174	Fax #: 397-1471	Address:		
Project #:	Project Owner:	City:		
Project Name: BD N-32 Vent		State: Zip:	SƏ	
Project Location: BD N-32 vent		Phone #:	rid	
Sampier Name: Lara Weinheimer/ Tony Grieco	Tony Grieco	Fax #:	oli	
FOP LAB UGE, DALY	MATRIX	PRESERV SAMPLING	ĺ	
Lab I.D. Sample I.D.		отнея: Acid/8ase: Ice / сооц отнея: В	TIME	
H(6(32-1 NW #1 @ 10'	÷	10/7/08	09.25	
2 MW #1 @ 80'		✓ 10/7/08	09:52	
J. 58,#2,@ 20'	-	/ 10/6/08	11:08	
ff SB #2 @ 80'	-	V 10/6/08	11:55	
V 58 #3 @ 20'		✓ 10/6/08	02:00	
(C. SB #3 @ 70	-	V 10/6/08	02:26	
7 58 #4 @ 30'		10/6/08	03:15	
¥ SB #4 @ 80	1	10/6/08	03:45	
() [SB #5 @ 30		V 10/7/08	08:22	
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Reinautshad By:	Date: Received By: Time:		email results	
Delivered By: (Circle One)	Sample Condition	on CHECKED BY:	Hconder@riceswo	Hconder@riceswd.com; jpurvis@riceswd.com;
Sampler - UPS - Bus - Other:	10	ent	Lweinneimer@riceswa.com	iswa.com

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

NEED SAMPLES BACK, PLEASE



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/23/09 Reporting Date: 01/29/09 Project Number: NOT GIVEN Project Name: BD N-32 VENT Project Location: T21S-R37E-SEC32 N~ LEA CO., NM

Sampling Date: 01/21/09 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

		BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NUMBE	R SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS D	ATE	01/28/09	01/28/09	01/28/09	01/28/09
H16750-1	MONITOR WELL #1	<0:001	<0.001	<0.001	<0.003
			·		
	nangga gadi ti jungkeurana. Ang bagamana kepada ke aka darawa ng <mark>mga kelar dalakak anasi akaka ak</mark> a yana ka				
Quality Contro		0.055	0.056	0.055	0.167
True Value Q		0.050	0.050	0.050	0.150
% Recovery		110	112	110	111
Relative Perc	ent Difference	1.7	1.7	<1.0	<1.0

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

00 A. Chemist

01/29/09 Date

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ANALYTICAL RESULTS FOR **RICE OPERATING COMPANY** ATTN: HACK CONDER 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/23/09 Reporting Date: 01/27/09 Project Number: NOT GIVEN Project Name: BD N-32 VENT Project Location: T21S-R37E-SEC32 N ~ LEA CO., NM

Sampling Date: 01/21/09 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: TR

	Na	Ca	Mg	к	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(img/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	01/27/09	01/27/09	01/27/09	01/27/09	01/26/09	01/26/09
H16750-1 MONITOR WELL #1	931	116	43.7	20.9	4,540	216
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Quality Control	NR	48.1	51.0	2.78	1,429	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	96.2	102	92.6	101	NR
Relative Percent Difference	NR	<0.1	<0.1	7.3	0.1	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1

SM3500-Ca-D	3500-Mg E	
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-11	υ	D	υ	u	

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310.1

	CI	SO4	CO3	HCO3	pН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	01/26/09	01/26/09	01/26/09	01/26/09	01/26/09	01/26/09
H16750-1 MONITOR WELL #1	1,540	130	0	264	7.16	3,010
Quality Control	490	42.1	NR	1000	7.00	NR
True Value QC	500	40.0	NR	1000	7.00	NR
% Recovery	98.0	105	NR	100	100	NR
Relative Percent Difference	2.0	3.1	NR	<0.1	0.1	NR

METHODS Oen Chemist

SM4500-CI-B 375.4

21/28/09 Date

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims in expressions of the contract or tort, shall be leaded to the amount paid by client for analyses. All claims in expressions of the contract or tort, shall be leaded to the amount paid by client for analyses. All claims intervation of the amount paid by client for analyses, and any other cause whatsoever shall be deemed weived unless made in writing and received by Cardinal within thirty (30) days effect 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 subsidiantes, affiliates or successors arising out of or related to the performance of services herounder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratorics.

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