AP - 4

ANNUAL MONITORING REPORT

YEAR(S): 2002



RICEIVED

2003 MAR 23 PM 1 35

CERTIFIED MAIL RETURN RECEIPT NO. 7005 1160 0005 3780 6450

March 16, 2009

Mr. Brad Jones New Mexico Energy, Minerals, & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Re: 2008 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Eunice Monument Eumont (EME) SWD System H-13 Leak, Unit H, Section 13, T-20-S, R-36-E, Lea County, New Mexico, NMOCD CASE #1R0429 (AP-44)

Mr. Jones:

Tetra Tech, Inc. (Tetra Tech) takes this opportunity to submit the 2008 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Eunice Monument Eumont (EME) SWD System H-13 Leak. ROC is the service provider (agent) for the EME Salt Water Disposal System and has no ownership of any portion of the pipeline, well or facility. The EME SWD system is owned by a consortium of oil producers, system partners, who provide all operating capital on a percentage ownership/usage basis.

Background

ROC discovered an accidental discharge at the above referenced site on July 3, 2002. The site location is shown on Figure 1. The soil had settled underneath a 4" asbestos/concrete system line causing it to break. According to the C-141 form (Initial) filed on July 11, 2002, the total volume spilled was 10 barrels with 5 barrels recovered and disposed of into the EME SWD system. The pipeline leak was permanently repaired to minimize the potential for further impairment.

Two delineation trenches were excavated on July 22, 2002, one on the east side of the system line and one on the west side of the line. Chloride concentrations in the east trench decreased to 254 mg/kg at a depth of 8 feet below ground surface, while the west trench exhibited elevated chloride levels to 12 feet below ground surface (bgs). A soil boring was drilled on September 25, 2002 to further delineate the depth of impact. Based upon the chloride concentrations and relatively shallow groundwater (~31 feet bgs), this soil boring was completed as a monitoring well. The well was completed to a total depth of 41 feet bgs.



On December 13, 2002, the NMOCD was notified of groundwater impact. The monitoring well has been sampled on a quarterly basis since October 2002. The only constituent of concern (COC) at this site was chloride.

Stage 1 Abatement Plan Implementation

As part of the Stage 1 Abatement Plan two additional monitor wells were proposed for the site. These two monitor wells (MW-2 and MW-3) were installed on March 23, 2006. MW-2 was placed up-gradient of MW-1, while MW-3 was placed downgradient. The wells were developed and sampled on March 27, 2006 and July 17, 2006. Both of the new monitor wells displayed similar qualities to the monitor well placed at the leak site (MW-1).

Also as part of the Stage I Abatement Plan, a water well database search was performed to encompass a ½ mile radius around the site. The database search revealed two wells in adjoining section of this site. Both wells were noted as "livestock watering wells" and both exhibited elevated chloride concentrations (1268 mg/L and 2680 mg/L). Based upon the results of the Stage I Abatement Plan implementation, it appears that the background water quality is impaired over the entire region and not as a result of this spill incident.

RULE 19 RELEASE REQUEST and SOIL WORK PLAN

In a report to the NMOCD dated August 18, 2006, ROC requested release from NMOCD Rule 19 requirements for the groundwater at the site. Additionally, ROC proposed additional assessment and remediation of chloride impacted soils for closure under NMOCD approval. The horizontal extent of chloride impacted soils was to be evaluated with a backhoe. Upon evaluation, the soils were to be excavated to a depth down below the root zone (minimum of 3.0' below ground surface) and either a clay cap or a 40 mil impervious liner was to be placed into the excavation. The excavated soils were to be evaluated and either placed back into the excavation or transported offsite for disposal. The OCD requested additional information in September 2006 which was provided in December 2006.

In a meeting between Mr. Wayne Price of the NMOCD, ROC and Highlander on July 18, 2007, the site was evaluated for release from Rule 19 and proposed excavation, evaluation, and placement of the clay liner beneath the root zone (3.0' bgs). It was noted in the discussion, that the site has revegetated and formed a natural evapotransporation barrier. As such, Mr. Price agreed with ROC that since the site has revegetated and formed a natural evapotransporation barrier, ROC can be released from the proposed excavation and placement of the impervious liner. In a meeting with Mr. Ed Hansen of the NMOCD in January 2008, Mr. Hansen concurred with Mr. Price on releasing ROC from excavating and placement of an impervious liner at the site. With the exception of the meetings on the soils, no response has been received from the NMOCD in regards to the termination request for sampling of groundwater at the site.



Monitor Well Sampling

The site monitor wells were sampled on January 22, May 7, August 13, and November 17, 2008. Prior to sampling, the monitor wells were gauged and approximately three casing volumes of water were purged from the wells. The pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

The wells were also inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level. Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. The samples were delivered under proper chain-of-custody control to Cardinal Labs of Hobbs, New Mexico. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Monitor Well Sample Results

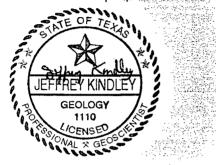
The three monitor wells continued to exhibit elevated chlorides throughout the year ranging from 1,360 mg/L in MW-2 in May to 1,660 mg/L in MW-1 in August 2008. As part of the Stage I Abatement Plan, a water well database search was performed to encompass a ½-mile radius around the site. The database revealed two water wells in an adjoining section of the site with elevated chloride concentrations (1,268 mg/L and 2,680 mg/L). As such, it appears the chloride levels are naturally elevated in the region.

Conclusions

- 1. In 2008, there were no BTEX constituents detected at or above reporting limits for any of the three monitor wells.
- 2. The three monitor wells continue to exhibit elevated chlorides throughout the year ranging from 1,360 mg/L in MW-2 in May to 1,660 mg/L in MW-1 in August 2008. This is consistent with other water wells located in an adjacent section with chloride concentrations of 1,268 mg/L and 2,680 mg/L.
- 3. Based upon the results of the Stage I Abatement Plan implementation, it appears that the background water quality is impaired over the entire region, and not as a result of this spill incident. As of this report, no response has been received from the NMOCD in regards to the termination request for sampling of groundwater.



4. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2010.



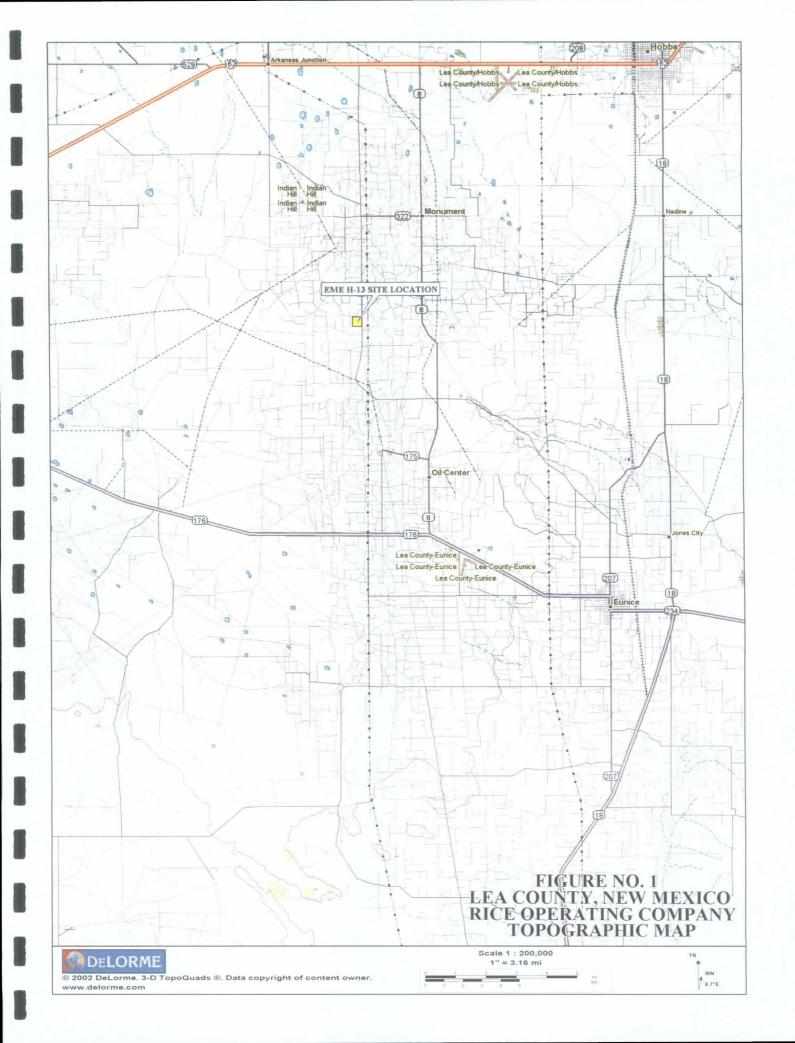
Respectfully Submitted, Tetra Tech, Inc.

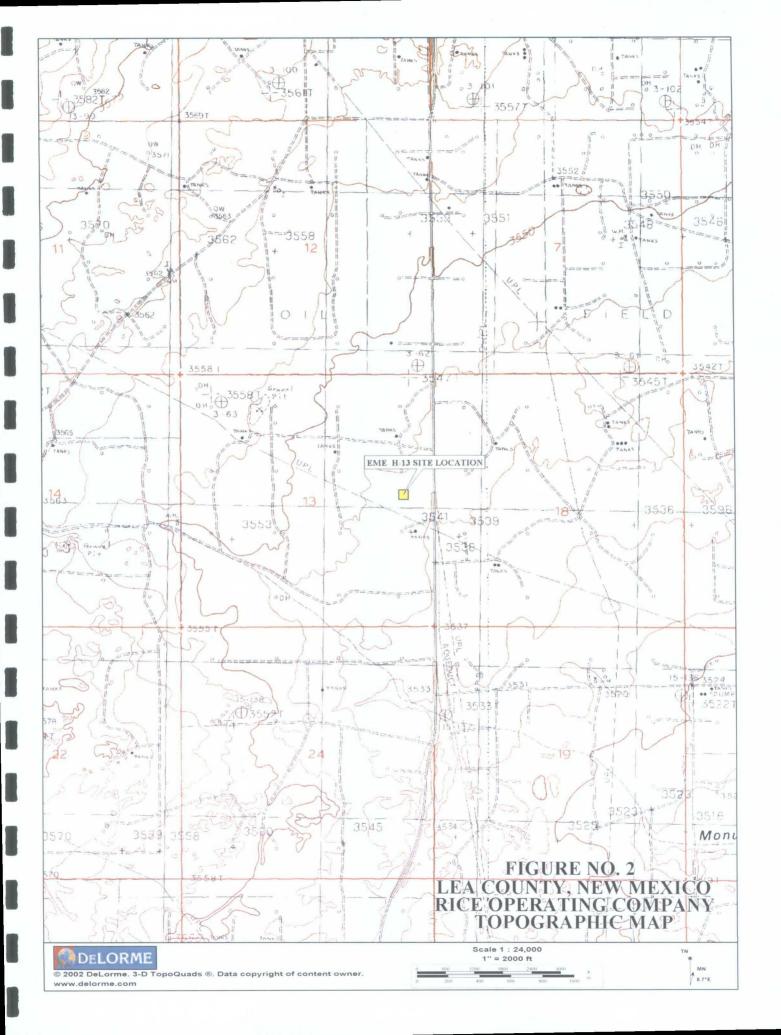
Jeffrey Kindley, P.G.

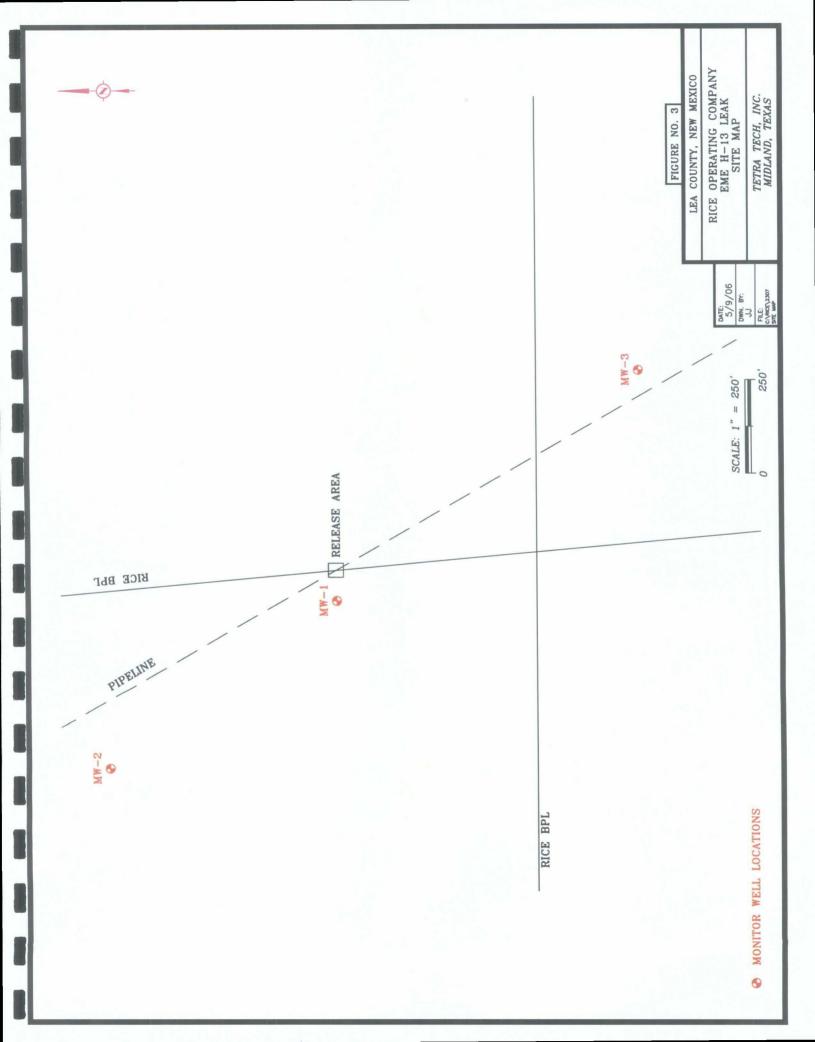
Senior Environmental Geologist

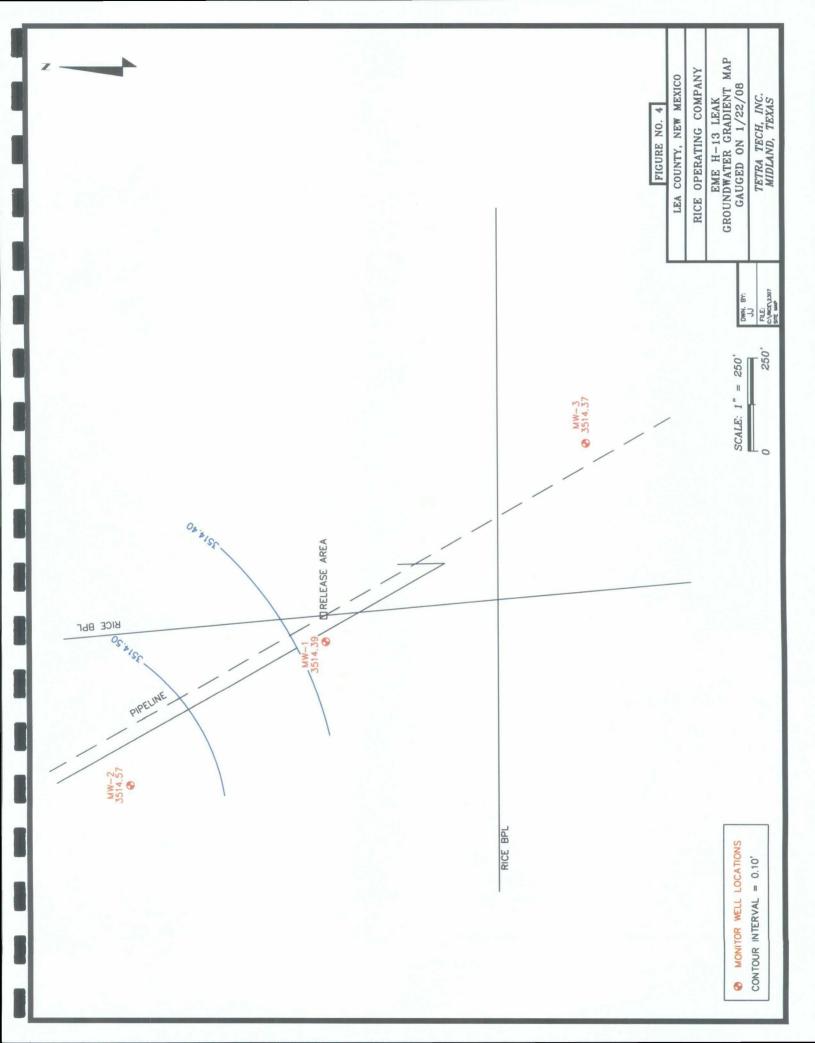
cc:Hack Conder - ROC, Edward Hansen - NMOCD Enclosures: Figures, Tables, Laboratory Analysis

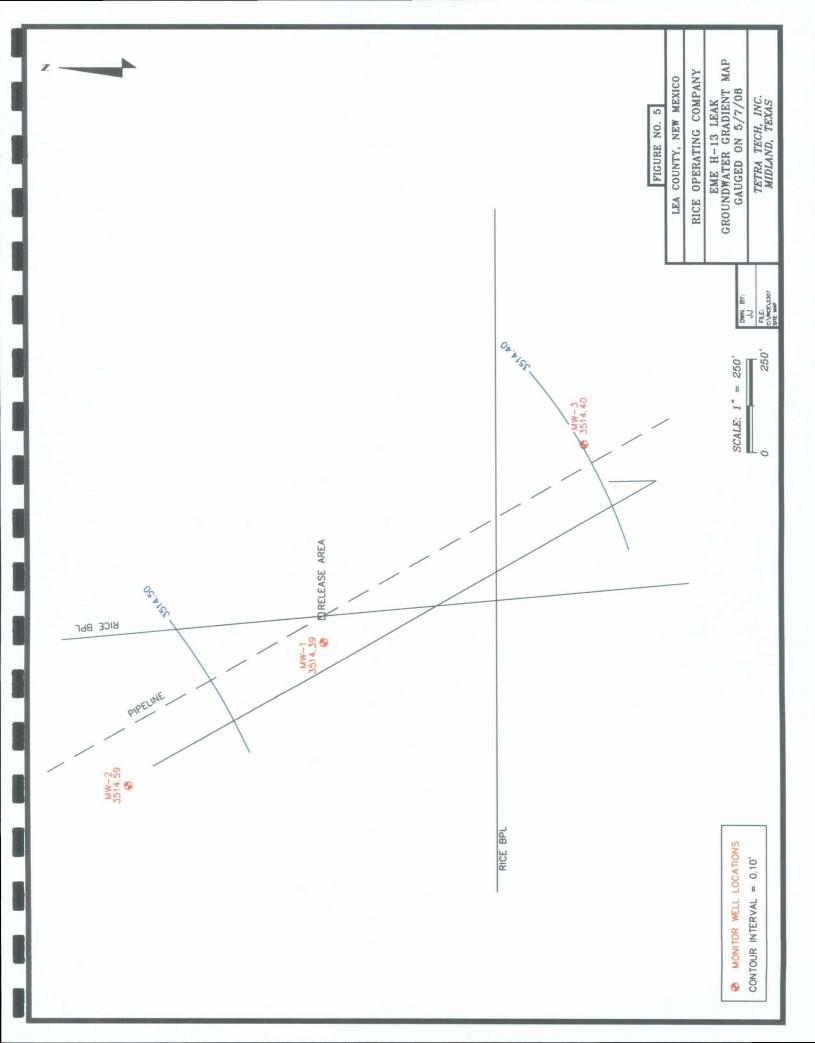
FIGURES

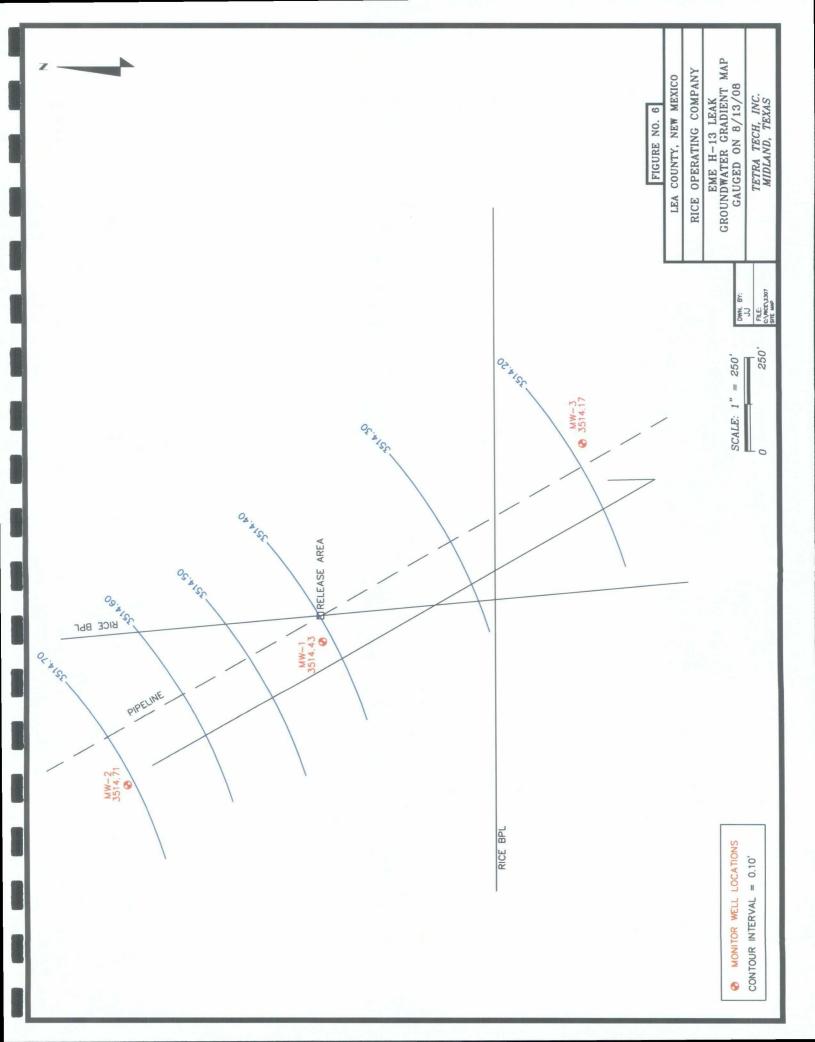


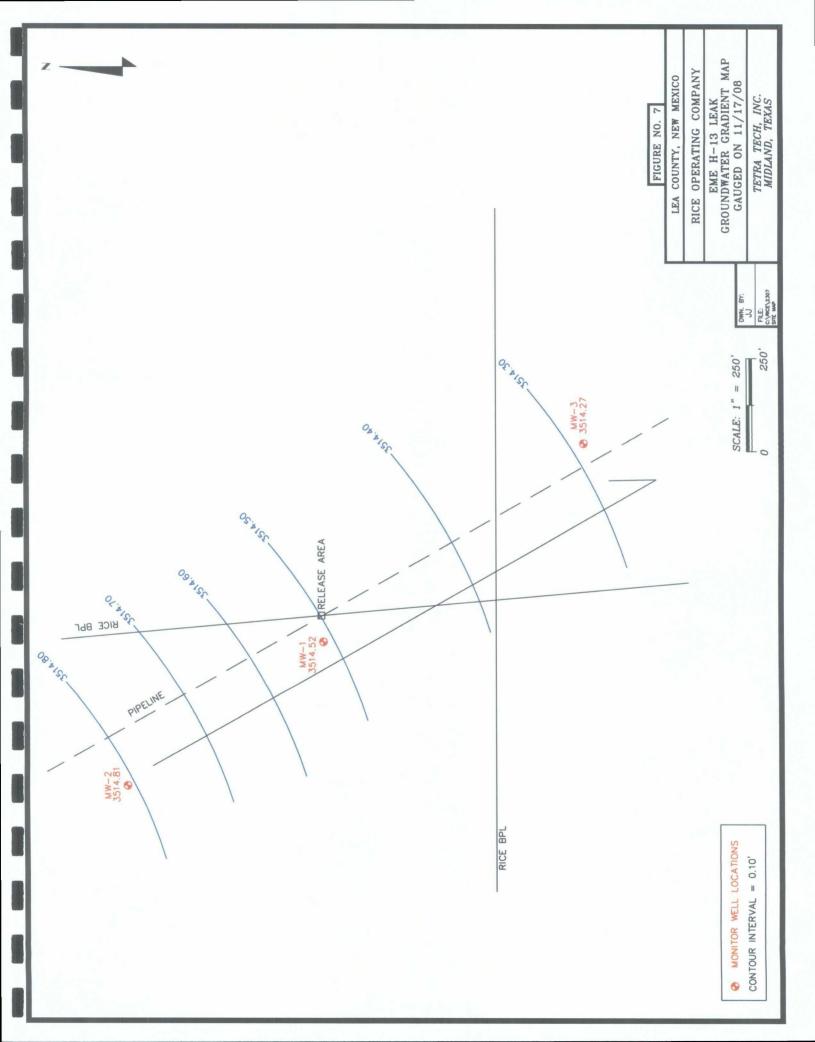












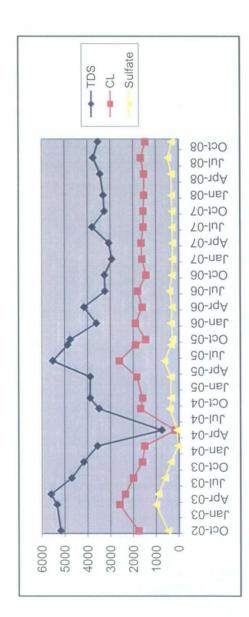
TABLES

						Rice Operating Company	rating C	ompany					
					_	H-13 Lea County, New Mexico	H-13 Ity, New	Mexico					
MW	Depth to	Total	Well	Volume		ū	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
	Water	Depth	Volume	Purged	Date							10,	
	33.19	43.94	1.72	5.25	10/29/02	1770	5180	<0.001	<0.001	<0.001	<0.001	497	
-	33.18	43.90	1.71	5.10	£0/90/£0	2600	5340	<0.001	<0.001	<0.001	<0.001	1020	
_	33.20	43.91	1.21	5.10	05/29/03	2360	2600	<0.001	<0.001	<0.001	<0.001	920	
-	33.40	43.90	1.68	5.04	08/22/03	2000	4700	<0.001	<0.001	<0.001	<0.001	622	
-	33.35	43.91	1.60	5.00	11/19/03	1600	4180	<0.001	<0.001	<0.001	0.001	370	
-	33.41	43.90	1.67	5.00	02/18/04	1500	3580	<0.002	<0.002	<0.002	>0.006	44	
-	33.56	43.90	1.65	5.00	05/27/04	177	751	<0.001	<0.001	<0.001	<0.001	8'06	
_	33.40	44.10	1.71	5.14	09/02/04	1680	3510	<0.001	<0.001	<0.001	<0.001	418	
-	32.85	44.10	1.80	5.40	11/24/04	1590	3900	<0.001	<0.001	<0.001	<0.001	358	
-	32.19	44.10	1.91	25.0	03/30/05	1850	3890	<0.001	<0.001	<0.001	<0.001	376	
-	31.93	44.10	1.95	10.0	06/21/05	2610	5520	<0.001	<0.001	<0.001	<0.001	641	
-					09/16/05	1900	4880	<0.001	<0.001	<0.001	<0.001	358	
-	31.70	44.10	2.00	6.0	10/19/05	1450	4760	<0.001	<0.001	<0.001	<0.001	286	
-	31.59	44.10	2.00	8.0	01/18/06	1900	3620	<0.001	<0.001	<0.001	<0.001	351	
-	31.66	44.10	2.00	8.0	04/18/06	1600	4160	<0.001	<0.001	<0.001	<0.001	307	
-	31.75	44.10	2.00	10.0	02/11/06	1800	3240	<0.001	<0.001	<0.001	<0.001	412	
-	31.77	44.10	2.00	10.0	10/09/06	1430	3260	<0.001	<0.001	<0.001	<0.001	308	Clear
-	31.72	44.32	2.00	8.0	01/24/07	1610	2940	<0.001	<0.001	<0.001	<0.001	292	Clear/no odor
-	31.68	44.32	2.00	8.0	04/02/07	1640	3070	<0.001	<0.001	<0.001	<0.001	287	Clear/no odor
-	31.69	44.32	2.00	8.0	07/10/07	1550	3800	<0.001	<0.001	<0.001	<0.002	302	Clear
-	31.75	44.32	2.00	7.0	10/01/07	1550	3264	<0.001	<0.001	<0.001	<0.003	300	Clear/no odor
-	31.87	44.32	2.00	7.0	01/22/08	1520	3311	<0.001	<0.001	<0.001	<0.003	329	Clear/no odor
-	31.84	44.32	2.00	7.0	05/07/08	1520	3450	<0.002	<0.002	<0.002	<0.006	340	Clear/no odor
-	31.83	44.32	2.00	7.0	08/13/08	1660	3750	<0.001	<0.001	<0.001	<0.003	484	Clear/no odor
_	31.74	44.32	2.00	7.0	11/17/08	1460	3540	<0.001	<0.001	<0.001	<0.003	317	Clear/no odor
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Rice Operating Company H-13 Lea County, New Mexico MW-1



		Comments					Clear	Pumping	Pumping	Pumping	Clear	Clear	Clear	Clear	Clear	
		Sulfate		264	237	562	284	300	231	291	348	306	325	393	317	
		Total Xylenes Sulfate		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.003	<0.006	<0.003	<0.003	
:		Toluene Ethyl Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
		Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
Rice Operating Company	n-13 Lea County, New Mexico	TDS Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
ating C	ק-15 t∀, Nev	TDS		3560	4120	2710	3720	2890	3690	3770	3189	3083	3030	3710	3580	
ce Oper	ea Coun	ū		1670	1420	1690	1430	1660	1470	1440	1480	1440	1360	1560	1520	
2	ٽ	Sample	Date	03/27/06	04/18/06	07/11/06	10/09/06	01/24/07	04/02/07	07/10/07	10/01/07	01/22/08	05/07/08	08/13/08	11/17/08	
		Volume	Purged	8.00	8.00	10.00	10.00	6.00	8.00	8.00	7.00	7.00	7.00	7.00	7.00	
		Well	Volume	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.90	1.90	1.90	1.90	2.00	
		Total	Depth	43.10	43.10	43.10	43.10	43.03	43.03	43.03	43.03	43.03	43.03	43.03	43.03	
		Depth to	Water	30.69	30.66	30.80	30.85	30.78	30.75	30.79	30.85	31.00	30.98	30.86	30.76	
		MΜ		2	2	2	2	2	2	2	2	2	2	2	2	0

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September 1974

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---Sulfate *LDS CL Sep-08 80-luL Rice Operating Company H-13 Lea County, New Mexico MW-2 May-08 **Mar-08 30-ก**ธโ **ΤΟ-νοΝ** 70-qa2 70-luc May-07 Mar-07 **1**an-07 90-voN 90-dəS 90-lnc May-06 Mar-06 4500 4000 3500 3000 2500 1500 500

		Comments					Clear	Pumping	Pumping	Pumping	Clear	Clear	Clear	Clear	Clear	
	į	Sulfate		472	426	557	393	398	242	392	332	328	368	425	321	
		Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.003	<0.006	<0.003	<0.003	
		Toluene Ethyl Benzene Total Xylenes Sulfate		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
		Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
Rice Operating Company H-13	ea County, New Mexico	TDS Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	
ating (H-13	ty, Nev	TDS		3480	3560	3032	2990	2820	3290	3420	3257	3225	3880	3530	3240	
ice Oper	ea Coun	ū		1490	1390	1510	1380	1570 2820	1410 3290	1450 3420	1440 3257	1520	1500	1520	1520	
2		Sample	Date	03/27/06	04/18/06	02/11/06	10/09/06	01/24/07	04/02/07	07/10/07	10/01/07	01/22/08	80/20/90	08/13/08	11/17/08	
		Volume	Purged	8.00	10.00	10.00	10.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
		Well	Volume	2.30	2.30	2.20	2.20	2.20	2.30	2.20	2.20	2.30	2.30	2.20	2.20	
		Total	Depth	46.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00	45.98	45.98	45.98	45.98	
		Depth to	Water	31.89	31.85	32.08	32.04	31.96	31.93	31.95	32.02	31.88	31.85	32.08	31.98	
		MW		က	က	က	m	က	က	3	က	က	က	က	က	~

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Sulfate → TDS CL Rice Operating Company H-13 Lea County, New Mexico MW-3 4500 4000 3500 3000 2500 1500 1000

May-08 Jul-08 Sep-08

May-06 May-06 Jul-06 Sep-06 Jan-07 May-07 May-07 Jul-07 Sep-07 Co-voN Mar-08

APPENDIX A LABORATORY ANALYTICAL



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/24/08
Reporting Date: 01/28/08
Project Number: NOT GIVEN
Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H~LEA COUNTY, NM

Sampling Date: 01/22/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: HM/KS

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	01/28/08	01/28/08	01/28/08	01/28/08	01/25/08	01/25/08
H14153-1 MONITOR WELL #1	670	283	131	9.58	5,400	232
H14153-2 MONITOR WELL #2	640	269	119	7.30	5,120	216
H14153-3 MONITOR WELL #3	673	286	127	7.70	5,390	228
Quality Control	NR	49.2	51.6	3.16	1,422	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	98.5	103	105	101	NR
Relative Percent Difference	NR	< 0.1	1.5	3.2	0.8	NR
METHODS:	SMC	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI	SO ₄	CO ₃	HCO ₃	pН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	01/25/08	01/28/08	01/25/08	01/25/08	01/25/08	01/23/08
H14153-1 MONITOR WELL #1	1,520	329	0	283	7.20	3,311
H14153-2 MONITOR WELL #2	1,440	306	0	264	7.20	3,083
H14153-3 MONITOR WELL #3	1,520	328	0	278	7.11	3,225
Quality Control	500	23.8	NR	1000	7.03	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	95.3	NR	100	100	NR
Relative Percent Difference	< 0.1	11.7	NR	< 0.1	0.1	NR
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Chemist (

Date



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR ST.

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/24/08 Reporting Date: 01/28/08

Project Owner: NOT GIVEN

Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H ~ LEA CO., NM

Sampling Date: 01/22/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	ΓE	01/25/08	01/25/08	01/25/08	01/25/08
H14153-1	MONITOR WELL #1	<0.001	<0.001	< 0.001	<0.003
H14153-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H14153-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.100	0.091	0.096	0.281
				L	
True Value QC		0.100	0.100	0.100	0.300
% Recovery		100	91.1	96.4	93.5
Relative Percer	nt Difference	3.1	<0.1	0.3	0.3

METHOD: EPA SW-846 8021B

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST	(Circle or Specify Method No.)				002		09	6н а	() () () () ()	Ct P	1X10	18/602 YTX1005 VTX1005	MTBE 802 PH 418.1 PH 418.1 PH 8270 Total Metals TCLP Metals TCLP Postil TCLP Semi TCLP Postil TCLP Pos	x x x x						Phone Results Yes No	Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to: kpope@riceswd.com	weinheimer@riceswd.com rozanne@valomet.com	
	Cardinal Laboratories, Inc.	BILL TO Company:	g Company		~ Hobbs, New Mexico 8824		(575) 393-9174 (575)397-1471	Fax #: (575)307-1471			Sample Signalure/ Rozanne Johnson (575)631-9310	1111	MATRIX PRESERVATIVE SAMPLING	INERS	(G)rab or (C	G 3 X 1 2 1 1-22 13:05	G 3 X 1 1 2 1 1-22 14:00	G 3 X 2 12:10				Received by:	1 Jah Selfut 1/24/08 2:25,0	Received By (Laboratory Staff) Date: Time:		rdition square	No No No
ibs, New	Mexico 88240 Cardin Tel (575) 393-2326 Fax (575) 393-2476	Company Name:	RICE Operating Company	Project Manager:	in Fa	Address: (Street, City, Zip)	Taylor Street ~ Hobbs, New Mexico 88240	Phone #: (575) 393_9174	Project Name		Project Location	T20S-R36E-Sec13 H ~ Lea County New Mexico		LAB# FIELD CODE	(LAB USE)	HI4153- Monitor Well #1	-2 Monitor Well #2	- 3 Monitor Well #3					Rozanna Lightight 1-740% 2:250	Date: Time:		3y: (Circle One)	Sampler - UPS - Bus - Other:



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 05/09/08 Reporting Date: 05/13/08

Project Number: NOT GIVEN
Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H ~ LEA COUNTY, NM

Sampling Date: 05/07/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	E	05/12/08	05/12/08	05/12/08	05/12/08
H14784-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H14784-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H14784-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
Quality Control		0.088	0.097	0.100	0.277
True Value QC		0.100	0.100	0.100	0.300
% Recovery		87.8	97.4	99.6	92.4
Relative Perce	nt Difference	1.0	1.3	2.5	1.4

METHOD: EPA SW-846 8260

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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 05/09/08
Reporting Date: 05/14/08
Project Number: NOT GIVEN
Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H~LEA COUNTY, NM

Sampling Date: 05/07/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK Analyzed By: HM/KS

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	05/13/08	05/13/08	05/13/08	05/13/08	05/12/08	05/12/08
H14784-1 MONITOR WELL #1	691	292	117	7.85	5,340	228
H14784-2 MONITOR WELL #2	624	260	107	8.10	4,820	204
H14784-3 MONITOR WELL #3	675	284	129	9.28	5,340	224
Quality Control	NR	51.3	50.5	3.10	1,418	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	103	101	103	100	NR
Relative Percent Difference	NR	3.1	3.8	18.7	0.4	NR
METHODS:	SMC	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO ₄	CO ₃	HCO₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	ATE:	05/12/08	05/13/08	05/12/08	05/12/08	05/12/08	05/12/08
H14784-1	MONITOR WELL #1	1,520	340	0	278	7.23	3,450
H14784-2	MONITOR WELL #2	1,360	325	0	249	7.21	3,030
H14784-3	MONITOR WELL #3	1,500	368	0	273	7.15	3,880
Quality Contr	rol	500	42.6	NR	988	7.03	NR
True Value Q	C	500	40.0	NR	1000	7.00	NR
% Recovery		100	106	NR	98.8	100	NR
Relative Perc	cent Difference	< 0.1	5.2	NR	1.2	0.1	NR
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

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Chemist

Date

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CHAIN-OF-CUSTODY	LAB Order ID #	A S	- - - -			۲.00			96	Нə	s aq	Cr	ba Cd Ba Cd	2001) (1005 3 8A go 3 8A gA 3 8A gA 3 8A gA	CTARSON OF A STREET OF A STREE	MTBE 8 TCLP We Total Me TOTA 418	×	×	x				fts	Fax Results Yes	REMARKS:	Email Results to:			
-	Laboratories,	BILT TO Company: RICE Operating Company	Address: (Street, City, Zip)	122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: Fax#:	(575) 393-9174 (575)397-1471	Fex #:	(575)397-1471			Sampler Signature:	111411	MATRIX O PRESERVATIVE SAMPLING	(vc	3: :0mi vo p,	CONTENT OF THE CONTEN	G 3 X 2 1 6-7 8:40	G 3 X 2 1 6-7 9:30	G 3 X 2 1 6-7 7:45				Received by: Date: Time: P		Time:	11.00mg	Sample Condition CHECKED BY:	Yes Yes (Initials)	
bs, Naw	Mexico 86240 Tel (575) 393-2326 Fax (575) 393-2476	Company Name: RICE Operating Company	Project Manager:	Kristin Farris-Pope, Project Scientist	Address: (Street, City, Zip)	122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone #:	(575) 393-9174	Project #: Project Name:	EME H-13 Leak	Project Location:	T20S-R36E-Sec13 H ~ Lea County New Mexico		LAB#	FIELD CODE	ONLY	14)84-1 Monitor Well #1	-2 Monitor Well #2	=3 Monitor Well #3				/ Date: Tim	Rozanne Aprinson 5/1/00 12.55	Relinquished by: Date: Time:	ı	Delivered By: (Circle One)	Sampler / UPS - Bus - Other:	general de la companya de la company



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

Receiving Date: 08/14/08
Reporting Date: 08/20/08
Project Number: NOT GIVEN

Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H ~ LEA COUNTY, NM

Sampling Date: 08/13/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: HM/TR

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	08/18/08	08/18/08	08/18/08	08/18/08	08/15/08	08/15/08
H15740-1 MONITOR WELL #1	922	333	53.5	10.7	5,000	228
H15740-2 MONITOR WELL #2	835	321	48.6	10.4	5,050	224
H15740-3 MONITOR WELL #3	726	248	146	9.5	4,900	228
Quality Control	NR	52.1	51.0	2.80	1,410	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	104	102	92.8	99.8	NR
Relative Percent Difference	NR	< 0.1	4.8	13.0	0.7	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO ₄	CO ₃	HCO ₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS [DATE:	08/15/08	08/15/08	08/15/08	08/15/08	08/15/08	08/17/08
H15740-1	MONITOR WELL #1	1,660	484	0	278	7.00	3,750
H15740-2	MONITOR WELL #2	1,560	393	0	273	7.00	3,710
H15740-3	MONITOR WELL #3	1,520	425	0	278	7.08	3,530
Quality Cont	tral	500	45.0	NR	1000	7.00	NR
True Value (500	40.0	NR	1000	7.00	NR.
% Recovery		100	112	NR	100	100	NR
Relative Per	cent Difference	2.0	0.4	NR	1.2	0.1	NR
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

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48.32--3

Date



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 08/14/08

Reporting Date: 08/19/08

Project Number: NOT GIVEN

Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H ~ LEA CO., NM

Sampling Date: 08/13/08

Sample Type: WATER

0.050

98.1

2.2

0.150

107

< 0.1

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE	08/15/08	08/15/08	08/15/08	08/15/08
H15740-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H15740-2	MONITOR WELL #2	<0.001	<0.001	<0.001	< 0.003
H15740-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.055	0.047	0.049	0.161

0.050

109

3.8

METHOD: EPA SW-846 8021

Relative Percent Difference

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

Chemist

True Value QC

% Recovery

Date

0.050

94.7

2.2

Page 1 of 1

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101 East Marland - Hobbs, New	- 1	Company Name:	RICE Operating Company	Project Manager:	Hack Conder	Address:	122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone #:	(575)	Project #:		Project Location:	T20S-R36E-Sec13 H		₹	LAB USE ONLY	5				İ					1	Relinquished by:	Rozanne Johnson	Relinquished by		Delivered By:	Sampler	1	
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/19/08
Reporting Date: 11/26/08

Project Number: NOT GIVEN

Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H~ LEA CO., NM

Sampling Date: 11/17/08

Sample Type: WATER

0.050

110

1.2

0.150

101

3.0

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE	11/25/08	11/25/08	11/25/08	11/25/08
H16360-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H16360-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H16360-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.060	0.049	0.055	0.151

0.050

120

3.4

METHOD: EPA SW-846 8260B

Relative Percent Difference

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

True Value QC

% Recovery

Chemist

Date

0.050

98.0

2.1



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER

122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/19/08
Reporting Date: 11/24/08

Project Number: NOT GIVEN
Project Name: EME H-13 LEAK

Project Location: T20S-R36E-SEC13 H ~ LEA CO., NM

Sampling Date: 11/17/08
Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: HM/TR

	Na	Ca	Mg	ĸ	Conductivity	T-Alkalinity
LAB NUMBE SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	11/24/08	11/21/08	11/24/08	11/21/08	11/20/08	11/20/08
H16360-1 MONITOR WELL #1	653	289	112	9.2	4,680	228
H16360-2 MONITOR WELL #2	656	305	122	8.8	4,670	232
H16360-3 MONITOR WELL #3	682	305	107	10.2	4,500	224
Quality Control	NR	48.1	48.6	2.77	1,430	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR NR
% Recovery	NR	96.2	97.2	92.4	101	NR
Relative Percent Difference	NR	8.0	<0.1	10.3	0.1	NR
METHODS:	SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1

	CI	SO₄	CO ₃	HCO ₃	рH	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	11/21/08	11/21/08	11/20/08	11/20/08	11/20/08	11/19/08
H16360-1 MONITOR WELL #1	1,460	317	0	278	7.05	3,540
H16360-2 MONITOR WELL #2	1,520	317	0	283	7.07	3,580
H16360-3 MONITOR WELL #3	1,520	321	0	273	7.11	3,240
Quality Control	500	45.5	NR	1000	7.02	NR
True Value QC	500	40.0	NR	1000	7.00	NR
% Recovery	100	114	NR	100	100	NR
Relative Percent Difference	<0.1	1.6	NR	<0.1	0.1	NR
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Chemist I Morand

//- ユケーッと Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In his work shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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