

AP - 46

STAGE 1 & 2 REPORTS

DATE:

JAN. 22, 2003

1R0427-88

DISCLOSURE REPORT

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE FORM

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
							Box Has Not Been Built Yet		
EME	K-6	K	6	20S	37E	Lea			

LAND TYPE: BLM XXX STATE FEE LANDOWNER OTHER

Depth to Groundwater 37 feet **NMOCD SITE ASSESSMENT RANKING SCORE:** 20

Date Started	1/22/2002	Date Completed	not complete	OCD Witness	No
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Soil Excavated	36	cubic yards	Excavation	Length	10	Width	10	Depth	10	feet
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Soil Disposed	36	cubic yards	Offsite Facility	Sundance	Location	Eunice, NM
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FINAL ANALYTICAL RESULTS:

Sample Date	n/a	Sample Depth	n/a
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Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
Vadose Zone Samples Will Be Included With Final Closure Report							

General Description of Remedial Action: Site was delineated vertically and laterally
with a backhoe. Chloride impact was consistent vertically and TPH also impacted the site.

The site was bored on 1/23/02 and chloride was found to impact groundwater with signs of TPH throughout the bore. A cased monitor well was installed and the groundwater has been sampled and analyzed quarterly (see annual groundwater report for results). ROC has contracted a hydrologic consultant to assist ROC in developing a remediation plan for the vadose zone at groundwater-impacted sites with the ultimate objective being final closure.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Soil Bore	5	250
	10	250
	16	250
	20	275
	24	250
	30	450
	36	600
	38	600

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

DATE	1/22/2003	PRINTED NAME	Kristin Farris
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SIGNATURE *Kenneth L. Smith* TITLE Project Scientist

EME Jct. K-6
K, 6, 20S, 37E

Rice Operating Co. Monitor Well Data Sheet

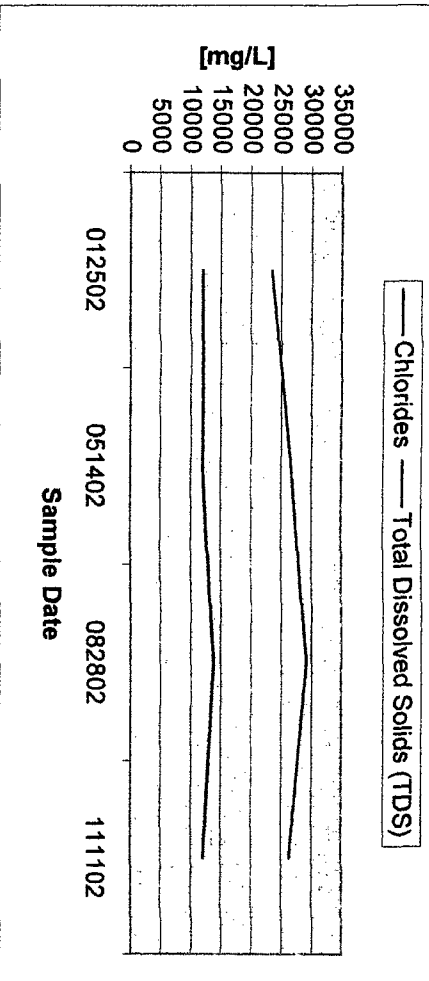
(ft)

(gal)

All parameter concentrations are in mg/L.

MMW #	WATER LEVEL	TOTAL DEPTH	WELL VOLUME	VOLUME BAILED	SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	
1	37.20	43.50	1.000	3.10	012502	1315	12096	23370	<0.002	<0.002	0.002	0.006	
1	37.30	42.78	0.877	2.75	051402	1125	12000	26700	0.00124	<.001	0.00336	0.00354	sandy
1	37.52	42.80	0.845	2.50	082802	1435	13796	29180	<0.002	<0.002	0.003	<0.006	red & silty
1	38.65	40.60	0.312	1.00	111102	1545	12200	26400	0.001	0.001	0.001	<0.003	silty

EME Jct. K-6 Monitor Well





ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/25/02
Reporting Date: 01/30/02
Project Number: EME-K-6
Project Name: EME-K-6
Project Location: 20S R37E

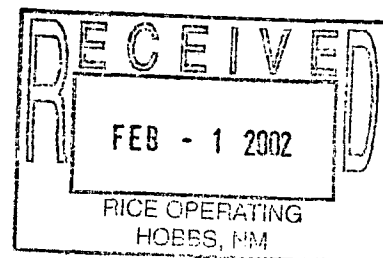
Sampling Date: 01/25/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM/AH

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Cl (mg/L)
ANALYSIS DATE:		01/30/02	01/28/02
H6464-1	WROEMEK612502MW	23370	12096
Quality Control		NR	1039
True Value QC		NR	1000
% Recovery		NR	104
Relative Percent Difference		5.1	1.0

METHODS: EPA 600/4-79-02	160.1	4500-ClB*
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*Std. Methods

*Notified
3 gw impact*



Amy Hill
Chemist

1-30-02
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 those 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 no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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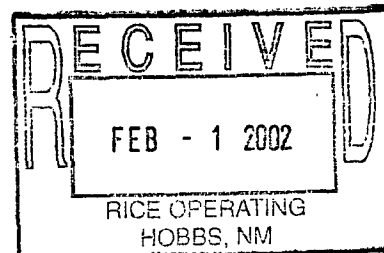
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

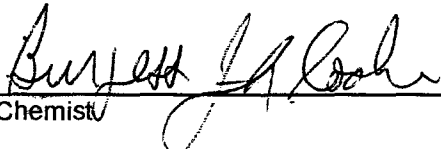
Receiving Date: 01/25/02
Reporting Date: 01/30/02
Project Number: EME-K-6
Project Name: EME-K-6
Project Location: 20S R37E

Sampling Date: 01/25/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		01/25/02	01/25/02	01/25/02	01/25/02
H6464-1	WROEMEK612502MW	<0.002	<0.002	0.002	0.006
Quality Control		0.111	0.107	0.109	0.314
True Value QC		0.100	0.100	0.100	0.300
% Recovery		111	107	109	105
Relative Percent Difference		8.2	3.8	5.6	4.2

METHOD: EPA SW-846 8260




Chemist

1/30/02
Date

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H6464B.XLS



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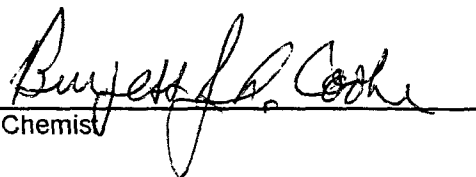
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 08/29/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: K-6
Project Location: EME

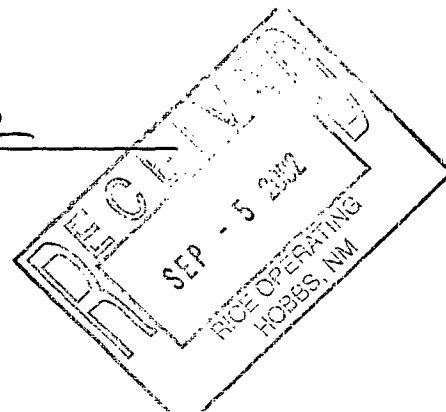
Sampling Date: 08/28/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		08/29/02	08/29/02	08/29/02	08/29/02
H6991-1	K-6 MW1	<0.002	<0.002	0.003	<0.006
Quality Control		0.111	0.105	0.108	0.309
True Value QC		0.100	0.100	0.100	0.300
% Recovery		111	105	108	103
Relative Percent Difference		1.5	3.9	3.0	5.0

METHOD: EPA SW-846 8260


Chemist

8/30/02
Date



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ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 08/29/02
Reporting Date: 08/30/02
Project Number: NOT GIVEN
Project Name: K-6
Project Location: EME

Sampling Date: 08/28/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO ₃ /L)
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ANALYSIS DATE:	08/29/02	08/29/02	08/29/02	08/29/02	08/29/02	08/29/02	08/29/02
H6991-1 K-6 MW 1	9684	798	268	22.5	30729		493
Quality Control	NR	42.4	48.0	4.62	1451		NR
True Value QC	NR	50.0	50.0	5.00	1413		NR
% Recovery	NR	84.9	96.1	92.4	103		NR
Relative Percent Difference	NR	11.8	4.4	9.0	0.1		NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1		
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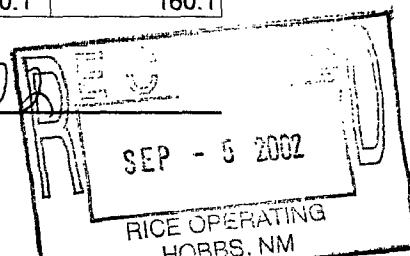
	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
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ANALYSIS DATE:	08/29/02	08/29/02	08/29/02	08/29/02	08/29/02	08/30/02
H6991-1 K-6 MW 1	13796	4086	0	601	6.73	29180
Quality Control	1000	49.34	NR	975	7.04	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	100	98.7	NR	97.5	101	NR
Relative Percent Difference	3.0	0.2	NR	2.5	0.1	8.8

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Amy Hill
Chemist

8-30-02
Date



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CARDINAL LABORATORIES, INC.

11 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

ANALYTICAL REPORT

Prepared for:

**Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240**

Project: Jct. K-6
PO#: 510
Order#: G0205001
Report Date: 11/19/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0205001
Project:
Project Name: Jct. K-6
Location: EME

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205001-01	MW 1	WATER	11/11/02 15:45	11/12/02 19:15	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp:	4 C		
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0205001
Project:
Project Name: Jct. K-6
Location: EME

Lab ID: 0205001-01
Sample ID: MW 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003799-02		11/19/02 12:02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.001	0.001
Ethylbenzene	0.001	0.001
Toluene	0.001	0.001
p/m-Xylene	0.002	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	110%	80	120

Approval: Jeanne McMurrey 11-20-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0205001
Project:
Project Name: Jct. K-6
Location: EME

Lab ID: 0205001-01

Sample ID: MW 1

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	993	mg/L	1000	10.0	6010B	11/15/2002	11/15/02	SM
Magnesium	40.9	mg/L	100	0.10	6010B	11/15/2002	11/15/02	SM
Potassium	57.8	mg/L	10	0.50	6010B	11/15/2002	11/15/02	SM
Sodium	6290	mg/L	1000	10.0	6010B	11/15/2002	11/15/02	SM

Approval: Jeanne McMurrey 11-20-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0205001
Project:
Project Name: Jct. K-6
Location: EME

Lab ID: 0205001-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	460	mg/L	1	2.00	310.1	11/13/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	11/13/02	SB
Chloride	12200	mg/L	1	5.00	9253	11/13/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	11/13/02	SB
SULFATE, 375.4	3780	mg/L	50	25.0	375.4	11/14/02	SB

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	26400	mg/L	1	5.0	160.1	11/13/02	TAL

Approval: Jeanne McMurrey 11-20-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205001

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003799-02			<0.001	
Ethylbenzene-mg/L		0003799-02			<0.001	
Toluene-mg/L		0003799-02			<0.001	
p/m-Xylene-mg/L		0003799-02			<0.001	
o-Xylene-mg/L		0003799-02			<0.001	
CONTROL						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003799-03		0.1	0.099	99.0%
Ethylbenzene-mg/L		0003799-03		0.1	0.103	103.0%
Toluene-mg/L		0003799-03		0.1	0.102	102.0%
p/m-Xylene-mg/L		0003799-03		0.2	0.218	109.0%
o-Xylene-mg/L		0003799-03		0.1	0.105	105.0%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003799-04		0.1	0.098	98.0%
Ethylbenzene-mg/L		0003799-04		0.1	0.102	102.0%
Toluene-mg/L		0003799-04		0.1	0.101	101.0%
p/m-Xylene-mg/L		0003799-04		0.2	0.215	107.5%
o-Xylene-mg/L		0003799-04		0.1	0.104	104.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003799-05		0.1	0.101	101.0%
Ethylbenzene-mg/L		0003799-05		0.1	0.104	104.0%
Toluene-mg/L		0003799-05		0.1	0.103	103.0%
p/m-Xylene-mg/L		0003799-05		0.2	0.219	109.5%
o-Xylene-mg/L		0003799-05		0.1	0.106	106.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0205001

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0003746-01			<2.00		
Carbonate Alkalinity-mg/L		0003747-01			<0.10		
Chloride-mg/L		0003750-01			<5.00		
Hydroxide Alkalinity-mg/L		0003748-01			<0.10		
SULFATE, 375.4-mg/L		0003767-01			<0.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0204999-01	512		510		0.4%
Carbonate Alkalinity-mg/L		0204999-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0204999-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0204999-01	2.8		2.9		3.5%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0204999-01	3720	5000	8680	99.2%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0204999-01	3720	5000	8600	97.6%	0.9%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0003746-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0003747-04		0.05	0.0496	99.2%	
Chloride-mg/L		0003750-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0003748-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0003767-04		50	53.2	106.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0205001

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003781-02			<0.010		
Magnesium-mg/L		0003781-02			<0.001		
Potassium-mg/L		0003781-02			<0.050		
Sodium-mg/L		0003781-02			<0.010		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0204999-01	171		172		0.6%
Magnesium-mg/L		0204999-01	6.77		7.47		9.8%
Potassium-mg/L		0204999-01	11		11.6		5.3%
Sodium-mg/L		0204999-01	1940		1900		2.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003781-05		2	2.09	104.5%	
Magnesium-mg/L		0003781-05		2	1.89	94.5%	
Potassium-mg/L		0003781-05		2	1.75	87.5%	
Sodium-mg/L		0003781-05		2	1.88	94.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0205001

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0003753-01			<5.0		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204999-01	6020		6070		0.8%

12600 West I-20 East
Odessa, Texas 79763

Project Manager: Kristin Farris

Company Name RICE Operating

Company Address: 122 W. Taylor

City/State/Zip: Fla 665, NM 88240

Telephone No. (505) 393-9174

Sampler Signature: Kristin Davis

Fax No: (505) 397-1471

Project Name: jct. K-6

Project #:

Project Loc: EME

PO #: 518

Fax No: (505) 397-1471

Sampler Signature: Kristin Davis

[illegible]

ANALYTICAL REPORT

Prepared for:

**DONNIE ANDERSON
RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242**

**Project: K-6
Order#: G0203359
Report Date: 05/17/2002**

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242
505-397-1471

Order#: G0203359
Project:
Project Name: K-6
Location: EME SWD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203359-01	MW 1	WATER	5/14/02 11:20	5/15/02 10:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: See COC			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242

Order#: G0203359
Project:
Project Name: K-6
Location: EME SWD

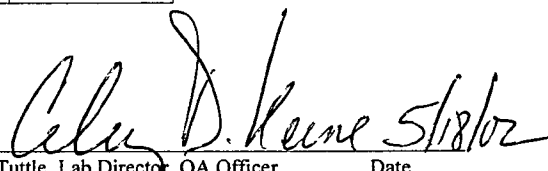
Lab ID: 0203359-01
Sample ID: MW 1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001724-02		5/15/02 11:56	1	1	CK	8021B

Parameter	Result µg/L	RL
Benzene	1.24	1.00
Ethylbenzene	3.36	1.00
Toluene	<1.00	1.00
p/m-Xylene	3.54	1.00
o-Xylene	<1.00	1.00

Approval:


Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242

Order#: G0203359
Project:
Project Name: K-6
Location: EME SWD

Lab ID: 0203359-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	522	mg/L	1	2.0	310.1	5/15/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.1	310.1	5/15/02	SB
Chloride	12000	mg/L	1	5.00	9253	5/16/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.1	310.1	5/15/02	SB
SULFATE, 375.4	3960	mg/L	50	25.0	375.4	5/17/02	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	1010	mg/L	250	2.50	6010B	5/16/02	SM
Magnesium	368	mg/L	250	0.250	6010B	5/16/02	SM
Potassium	46.0	mg/L	50	2.50	6010B	5/16/02	SM
Sodium	7310	mg/L	1250	12.5	6010B	5/16/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	26700	mg/L	1	5.0	160.1	5/15/02	SB

Approval:

Roland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

5-19-02
Date

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203359

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-µg/L		0001724-02			<1.00	
Ethylbenzene-µg/L		0001724-02			<1.00	
Toluene-µg/L		0001724-02			<1.00	
p/m-Xylene-µg/L		0001724-02			<1.00	
o-Xylene-µg/L		0001724-02			<1.00	
CONTROL						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-µg/L		0001724-03		100	115	115.%
Ethylbenzene-µg/L		0001724-03		100	114	114.%
Toluene-µg/L		0001724-03		100	112	112.%
p/m-Xylene-µg/L		0001724-03		200	225	112.5%
o-Xylene-µg/L		0001724-03		100	113	113.%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-µg/L		0001724-04		100	114	114.% 0.9%
Ethylbenzene-µg/L		0001724-04		100	110	110.% 3.6%
Toluene-µg/L		0001724-04		100	109	109.% 2.7%
p/m-Xylene-µg/L		0001724-04		200	225	112.5% 0.%
o-Xylene-µg/L		0001724-04		100	112	112.% 0.9%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-µg/L		0001724-05		100	115	115.%
Ethylbenzene-µg/L		0001724-05		100	112	112.%
Toluene-µg/L		0001724-05		100	109	109.%
p/m-Xylene-µg/L		0001724-05		200	226	113.%
o-Xylene-µg/L		0001724-05		100	111	111.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0203359

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0001737-01			<2.00	
Carbonate Alkalinity-mg/L		0001738-01			<0.10	
Chloride-mg/L		0001733-01			<5.00	
Hydroxide Alkalinity-mg/L		0001739-01			<0.10	
SULFATE, 375.4-mg/L		0001741-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0203354-01	292		293	0.3%
Carbonate Alkalinity-mg/L		0203354-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0203354-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0203355-01	610		610	0.0%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0203354-01	860	500	1360	100.0%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0203354-01	860	500	1360	100.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0001737-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0001738-04		0.05	0.0496	99.2%
Chloride-mg/L		0001733-04		5000	5050	101.0%
Hydroxide Alkalinity-mg/L		0001739-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0001741-04		50	49.9	99.8%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0203359

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0001725-02			<0.010	
Magnesium-mg/L		0001725-02			<0.001	
Potassium-mg/L		0001725-02			<0.050	
Sodium-mg/L		0001725-02			<0.010	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0203354-01	266		264	0.8%
Magnesium-mg/L		0203354-01	106		106	0.0%
Potassium-mg/L		0203354-01	15.4		14.8	4.0%
Sodium-mg/L		0203354-01	303		308	1.6%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0001725-05		2	1.99	99.5%
Magnesium-mg/L		0001725-05		2	2.06	103.0%
Potassium-mg/L		0001725-05		2	1.77	88.5%
Sodium-mg/L		0001725-05		2	1.91	95.5%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203359

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0001731-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0203354-01	2680		2760		2.9%

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: K-6

Project #:

Project Loc: EMF SWD

PO #: 716

PO #: 716

Fax No: (505) 397-1471

Sampler Signature: Andriana

Project Manager: DONNIE ANDERSON

Company Name RICE OPERATING COMPANY

Company Address: 122 W. TAYLOR

City/State/Zip: HOBBS, NEW MEXICO, 88240

Telephone No: (505) 393-9174

Sampler Signature: Andriana

[illegible]



ENVIRONMENTAL PLUS, INC.

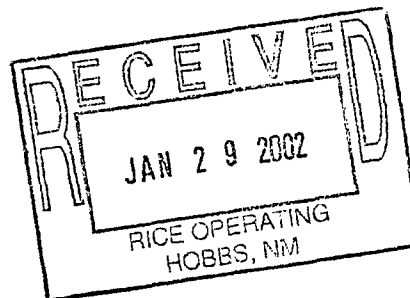
Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

January 25, 2002

Mr. Donnie Anderson
Rice Operating Company
122 West Taylor
Hobbs, New Mexico 88240



Subject: Monument EME K-6 Monitor Well Sampling

Dear Mr. Anderson,

Included below is the information for the Monument EME K-6 monitor well sampled by Environmental Plus, Inc. on 1-24-02.

RICE OPERATING T20S R37E MONUMENT EME K-6						
MONITOR WELL ID	DATE	WELL CASING INSIDE DIAMETER INCHES	WATER LEVEL FROM TOP OF CASING FEET	TOTAL DEPTH FROM TOP OF CASING FEET	BORE WATER VOLUME GALLONS	PURGE VOLUME GALLONS
MWI	1/25/2002	2	37.2	43.5	1.0	3.1

If you have any questions or require more information please call Mr. Ben Miller or myself at the office or at 505.390.0288 or 505.390.7864, respectively.

Sincerely,


Pat McCasland
EPI Technical Services Manager

cc: Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

ENVIRONMENTAL PLUS, INC.

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7000 1530 0005 9895 4503

February 4, 2002

Mr. Roger Anderson
NM Energy, Minerals, and Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: NOTIFICATION OF GROUNDWATER IMPACT
EUNICE MONUMENT EUMONT (EME) SWD SYSTEM, JCT K-6
Unit Letter K, Sec. 6, T20S, R37E, Lea County, NM

Mr. Anderson:

Rice Operating Company (ROC) takes this opportunity to notify the Director of the NMOCD, Environmental Bureau of groundwater impact in accordance with NM Rule 116. The Jct. K-6 site qualifies for this notification. The remediation of this site may fall under NM Rule 19 procedures.

Jct. K-6 is part of the Junction Box Upgrade Project scheduled for 2001. Impact of the vadose zone was delineated by trenching and soil boring at this site. Vadose zone impact was discovered to groundwater. A monitor well was installed and developed pursuant to NMOCD guidelines. A water sample was taken to a certified lab for analyses. The analyses results are listed in the following table. All results are in mg/L.

SITE	UNIT	SEC	T	R	CHLORIDES	TDS	BENZENE
K-6	K	6	20S	37E	12,096	23,370	<0.002

The results demonstrate chlorides and TDS are in excess of the WQCC standards. Groundwater in this area is 23' bgs. A remediation plan will be developed for this site and submitted to the NMOCD for approval.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of the pipelines, wells or facilities. 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.

Please accept this notification for Jct. K-6.

RICE OPERATING COMPANY

A handwritten signature in cursive script, appearing to read "Donnie Anderson".

Donnie Anderson
Project Leader-Environmental

Cc: LBG, CDH, SC, file Mr. Chris Williams
 NMOC District Office
 1625 N. French Drive
 Hobbs, NM 88240