

AP - 42

STAGE 1 & 2 REPORTS

DATE:

JAN. 22, 2003

1R0427-93

DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE FORM**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	M-16-1	M	16	20S	37E	Lea	Length	Width	Depth
							Box Has Not Been Built Yet		

LAND TYPE: BLM _____ STATE XXX FEE LANDOWNER _____ OTHER _____

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

Date Started 12/11/2001 Date Completed not complete OCD Witness No

Soil Excavated 30 cubic yards Excavation Length 10 Width 20 Depth 4 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date n/a Sample Depth n/a

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 with signs of TPH impact.

The site was bored on 12/20/01 and chloride was found to impact groundwater. 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
Vertical	6	150
	10	500
	14	200
Soil Bore	8	50
	12	400
	16	50
	20	50

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
SIGNATURE Kristin Farris TITLE Project Scientist

EME Jct. M-16-1
M, 16-1

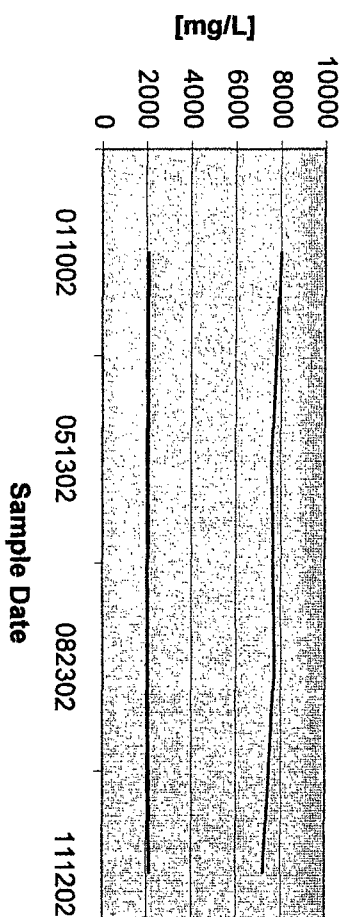
Rice Operating Co. Monitor Well Data Sheet

All parameter concentrations are in mg/L.

MW #	WATER LEVEL (ft)	TOTAL DEPTH	WELL VOLUME (gal)	VOLUME BAILED	SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1	22.60	35.10	2.000	6.10	011002	1300	2079	8016	<0.002	<0.002	<0.002	<0.006
1	23.78	25.81	0.325	1.00	051302	1230	2070	7620	<0.001	<0.001	<0.001	<0.001
1	23.08	34.80	1.875	5.75	082302	1410	2040	7740	<0.001	<0.001	<0.001	<0.001
1	23.53	34.69	1.786	5.50	111202	1035	2130	7230	<0.001	<0.001	<0.001	<0.001

EME Jct. M-16-1 Monitor Well

— Chlorides — Total Dissolved Solids (TDS)



ANALYTICAL REPORT

Prepared for:

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

M-16-1

Project: MW 1

PO#:

Order#: G0204339

Report Date: 09/04/2002

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#: G0204339
Project:
Project Name: MW 1
Location: EME M-16-1

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>
0204339-01	MW 1	WATER	8/23/02 14:10	8/23/02 19:25	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 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#: G0204339
Project:
Project Name: MW 1
Location: EME M-16-1

Lab ID: 0204339-01
Sample ID: MW 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002969-02		8/26/02 22:42	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	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	109%	80	120

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.

9-04-02

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204339
Project:
Project Name: MW 1
Location: EME M-16-1

Lab ID: 0204339-01

Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	358	mg/L	1	2.00	310.1	8/26/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/26/02	SB
Chloride	2040	mg/L	1	5.00	9253	8/28/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/26/02	SB
SULFATE, 375.4	2380	mg/L	1	0.5	375.4	8/28/02	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	293	mg/L	100	1.0	6010B	9/3/02	SM
Magnesium	224	mg/L	100	0.10	6010B	9/3/02	SM
Potassium	40.5	mg/L	10	0.50	6010B	9/3/02	SM
Sodium	2,200	mg/L	1000	10.0	6010B	9/3/02	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	7740	mg/L	1	5.0	160.1	8/26/02	SB

Approval:

Raland K. Tuttle 9-04-02
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.

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#: G0204339

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0002969-02			<0.001	
Ethylbenzene-mg/L		0002969-02			<0.001	
Toluene-mg/L		0002969-02			<0.001	
p/m-Xylene-mg/L		0002969-02			<0.001	
o-Xylene-mg/L		0002969-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0204252-01	0	0.1	0.097	97.%
Ethylbenzene-mg/L		0204252-01	0	0.1	0.098	98.%
Toluene-mg/L		0204252-01	0	0.1	0.099	99.%
p/m-Xylene-mg/L		0204252-01	0	0.2	0.205	102.5%
o-Xylene-mg/L		0204252-01	0	0.1	0.098	98.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0204252-01	0	0.1	0.091	91.%
Ethylbenzene-mg/L		0204252-01	0	0.1	0.092	92.%
Toluene-mg/L		0204252-01	0	0.1	0.093	93.%
p/m-Xylene-mg/L		0204252-01	0	0.2	0.192	96.%
o-Xylene-mg/L		0204252-01	0	0.1	0.092	92.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0002969-05		0.1	0.094	94.%
Ethylbenzene-mg/L		0002969-05		0.1	0.094	94.%
Toluene-mg/L		0002969-05		0.1	0.095	95.%
p/m-Xylene-mg/L		0002969-05		0.2	0.196	98.%
o-Xylene-mg/L		0002969-05		0.1	0.094	94.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0204339

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0002990-01			<2.00		
Carbonate Alkalinity-mg/L	0002981-01			<0.10		
Chloride-mg/L	0002987-01			<5.00		
Hydroxide Alkalinity-mg/L	0002982-01			<0.10		
SULFATE, 375.4-mg/L	0002991-01			<0.50		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0204339-01	358		360		0.6%
Carbonate Alkalinity-mg/L	0204339-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L	0204339-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L	0204339-01	2380		2360		0.8%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0204339-01	2040	1000	3050	101.1%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0204339-01	2040	1000	3030	99.5%	0.7%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0002990-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L	0002981-04		0.05	0.0496	99.2%	
Chloride-mg/L	0002987-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L	0002982-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L	0002991-04		50	49.1	98.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204339

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003026-01			<0.010		
Magnesium-mg/L		0003026-01			<0.001		
Potassium-mg/L		0003026-01			<0.050		
Sodium-mg/L		0003026-01			<0.010		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0204340-01	250		260		3.9%
Magnesium-mg/L		0204340-01	217		210		3.3%
Potassium-mg/L		0204340-01	26.4		26.2		0.8%
Sodium-mg/L		0204340-01	1340		1,330		0.0%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003026-04		2	2.07	103.5%	
Magnesium-mg/L		0003026-04		2	2.19	109.5%	
Potassium-mg/L		0003026-04		2	1.75	87.5%	
Sodium-mg/L		0003026-04		2	1.93	96.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204339

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0002985-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0204339-01	7740		7770		0.4%

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: K. Farris
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174
Fax No: (505) 397-1471
Sampler Signature: *Therion Fairlie*

Sampler Signature: Christo Fajardo

[illegible]

ANALYTICAL REPORT

Prepared for:

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

Project: Jct. M-16-1

PO#: 510

Order#: G0205002

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#: G0205002
Project:
Project Name: Jct. M-16-1
Location: EME

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<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>
0205002-01	MW 1	WATER	11/12/02 10:35	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#: G0205002
Project:
Project Name: Jct. M-16-1
Location: EME

Lab ID: 0205002-01
Sample ID: MW 1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003799-02		11/18/02 19:56	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	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	84%	80	120
Bromofluorobenzene	92%	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#: G0205002
Project:
Project Name: Jct. M-16-1
Location: EME

Lab ID: 0205002-01
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	296	mg/L	100	1.0	6010B	11/15/2002	11/15/02	SM
Magnesium	23.1	mg/L	100	0.10	6010B	11/15/2002	11/15/02	SM
Potassium	34.6	mg/L	10	0.50	6010B	11/15/2002	11/15/02	SM
Sodium	1640	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#: G0205002
Project:
Project Name: Jct. M-16-1
Location: EME

Lab ID: 0205002-01
Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	336	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	2130	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	2460	mg/L	50	25.0	375.4	11/14/02	SB

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	7230	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#: G0205002

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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	RPD
Benzene-mg/L		0003799-03		0.1	0.099	99.%	
Ethylbenzene-mg/L		0003799-03		0.1	0.103	103.%	
Toluene-mg/L		0003799-03		0.1	0.102	102.%	
p/m-Xylene-mg/L		0003799-03		0.2	0.218	109.%	
o-Xylene-mg/L		0003799-03		0.1	0.105	105.%	
CONTROL DUP							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0003799-04		0.1	0.098	98.%	1.%
Ethylbenzene-mg/L		0003799-04		0.1	0.102	102.%	1.%
Toluene-mg/L		0003799-04		0.1	0.101	101.%	1.%
p/m-Xylene-mg/L		0003799-04		0.2	0.215	107.5%	1.4%
o-Xylene-mg/L		0003799-04		0.1	0.104	104.%	1.%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0003799-05		0.1	0.101	101.%	
Ethylbenzene-mg/L		0003799-05		0.1	0.104	104.%	
Toluene-mg/L		0003799-05		0.1	0.103	103.%	
p/m-Xylene-mg/L		0003799-05		0.2	0.219	109.5%	
o-Xylene-mg/L		0003799-05		0.1	0.106	106.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0205002

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
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						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
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						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0204999-01	3720	5000	8680	99.2%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0204999-01	3720	5000	8600	97.6% 0.9%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
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#: G0205002

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#: G0205002

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
Phone: 915-563-1800
Fax: 915-563-1713

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Farris

Company Name

RICE Operating

Company Address:

133 W. Taylor

City/State/Zip:

Hobbs, NM 88240

Telephone No. (

505) 393-9174

Fax No:

(505) 397-1471

Sampler Signature:

Therap. Forum

Special Instructions:

Major anions/cations.

Relinquished by: *K. Farris*

Relinquished by: *CD Warner*

Received by:

Date: *11/20/2015* Time: *1530*

Received by: *Calvin d. L. P.*

Date: *11/20/2015* Time: *1915*

Temperature: *Rec 4.0°C*

Laboratory Comments:

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative					Matrix					Other (specify):	TDS (mg/L)	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRC/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Analyze For:		
				HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil													
<i>01</i>	<i>MW 1</i>	<i>11/20/2015</i>	<i>1</i>																						
	<i>MW 1</i>	<i>11/20/2015</i>	<i>2</i>																						

Standard TAT (Pre-Schedule)

RUSH TAT (Pre-Schedule)

ANALYTICAL REPORT

Prepared for:

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

Project: M-16-1
Order#: G0203356
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#: G0203356
Project:
Project Name: M-16-1
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>
0203356-01	MW 1	WATER	5/13/02 12:30	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#: G0203356
Project:
Project Name: M-16-1
Location: EME SWD

Lab ID: 0203356-01
Sample ID: MW 1

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0001724-02		5/15/02 17:58	1	1	CK	8021B

Parameter	Result µg/L	RL
Benzene	<1.00	1.00
Ethylbenzene	<1.00	1.00
Toluene	<1.00	1.00
p/m-Xylene	<1.00	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#: G0203356
Project:
Project Name: M-16-1
Location: EME SWD

Lab ID: 0203356-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	360	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	2070	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	2220	mg/L	50	25.0	375.4	5/17/02	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	288	mg/L	50	0.500	6010B	5/16/02	SM
Magnesium	191	mg/L	50	0.050	6010B	5/16/02	SM
Potassium	39.5	mg/L	10	0.500	6010B	5/16/02	SM
Sodium	1890	mg/L	500	5.00	6010B	5/16/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	7620	mg/L	1	5.0	160.1	5/15/02	SB

Approval:

Raland K. Tuttle 5-19-02
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.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203356

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
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
Benzene-µg/L		0001724-03		100	115	115.0%
Ethylbenzene-µg/L		0001724-03		100	114	114.0%
Toluene-µg/L		0001724-03		100	112	112.0%
p/m-Xylene-µg/L		0001724-03		200	225	112.5%
o-Xylene-µg/L		0001724-03		100	113	113.0%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/L		0001724-04		100	114	114.0%
Ethylbenzene-µg/L		0001724-04		100	110	110.0%
Toluene-µg/L		0001724-04		100	109	109.0%
p/m-Xylene-µg/L		0001724-04		200	225	112.5%
o-Xylene-µg/L		0001724-04		100	112	112.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/L		0001724-05		100	115	115.0%
Ethylbenzene-µg/L		0001724-05		100	112	112.0%
Toluene-µg/L		0001724-05		100	109	109.0%
p/m-Xylene-µg/L		0001724-05		200	226	113.0%
o-Xylene-µg/L		0001724-05		100	111	111.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0203356

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#: G0203356

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#: G0203356

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%

12500 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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:

Fax No: (505) 397-1471

Project Name:

Project #:

Project Loc:

PO#: _____

[illegible]

Special Instructions:

Major cations/anions; Fax results to K. Farris

Received by:

Date	Time
------	------

Kristin Farris

5-14-02	4:30 pm
Date	Time

Received by ELDT

Date	Time
------	------

CDitayana

5-1502 10:00am

DATE	15-02
TIME	10:00

Sample Containers: 1242

Temperature Upon Receipt

Laboratory Comments:

100

55915 70ml glass

18.5°C - L HDPE

100

p. 22



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:

Receiving Date: 01/11/02
Reporting Date: 01/16/02
Project Owner: RICE OPERATING CO.
Project Name: M16-1
Project Location: NOT GIVEN

Sampling Date: 01/10/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
------------	-----------	--------------	--------------	--------------	-------------	-------------------------------	--

ANALYSIS DATE:	01/16/02	01/15/02	01/15/02	01/15/02	01/15/02	01/15/02	01/15/02
H6429-1 R011002M161MW	2212	432	241	27.7	11285	424	
Quality Control	NR	55.0	48.6	5.27	1489	NR	
True Value QC	NR	50.0	50.0	5.00	1413	NR	
% Recovery	NR	110	97.2	105	105	NR	
Relative Percent Difference	NR	0	6.0	0	0.3	NR	

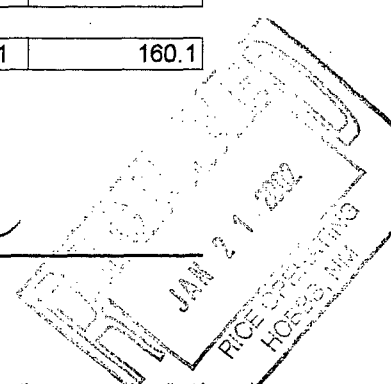
METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	01/15/02	01/15/02	01/15/02	01/15/02	01/15/02	01/15/02
H6429-1 R011002M161MW	2079	3420	0	518	7.47	8016
Quality Control	1040	52.66	NR	984	7.00	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	104	105	NR	98.4	100	NR
Relative Percent Difference	1.0	0.6	NR	2.7	0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

Amy Hill
Chemist

1-16-02
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.

H6429A.XLS



ARDINAL LABORATORIES

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

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

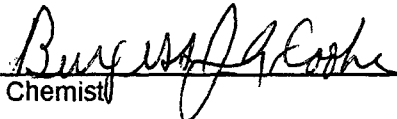
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 01/11/02
Reporting Date: 01/12/02
Project Owner: RICE OPERATING CO.
Project Name: M16-1
Project Location: NOT GIVEN

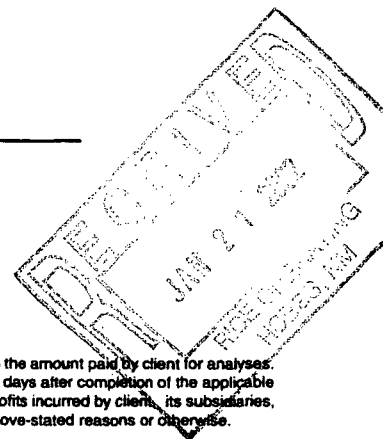
Sampling Date: 01/10/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		01/11/02	01/11/02	01/11/02	01/11/02
H6429-1	R011002M161MW	<0.002	<0.002	<0.002	<0.006
Quality Control		0.100	0.104	0.108	0.314
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.9	104	108	105
Relative Percent Difference		1.6	2.8	2.2	1.9

METHOD: EPA SW-846 8260


Chemist

1/12/02
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.

H6429B.XLS

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Sampler Relinquished: <i>Bradley Blanton</i>	Received By: Date <i>1-11-02</i> Time <i>2:35</i>	Relinquished by: Date Time	Received By: (lab stat) <i>Amu</i>	Checked By:
Delivered by Sampler	Sample Cool & Intact Yes ☐ No ☐			



ENVIRONMENTAL PLUS, INC.

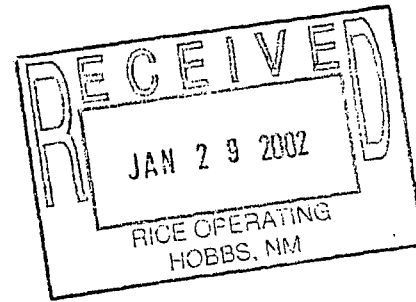
Micro-Blaze

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 System Monitor Well Sampling

Dear Mr. Anderson,

Included below is the development and sampling information collected by Environmental Plus, Inc. (EPI) on 1-10-02 for the Monument EME System monitor wells.

RICE OPERATING MONUMENT EME SYSTEM MONITOR WELLS						
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
P6	1/10/2002	2	36.7	48.0	1.8	5.5
K33-I	1/10/2002	2	36.9	41.0	0.7	2.0
M16-I	1/10/2002	2	22.6	35.1	2.0	6.1
JUNCTION N-5	1/10/2002	2	35.5	41.3	0.9	2.8

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.