

1R - 219

**GENERAL
CORRESPONDENCE**

YEAR(S):

JCT N-6

2004 → 2003

RICE Operating Company

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

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 2410 0000 4940 1367

March 22, 2003⁴

Mr. William C. Olson
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RECEIVED

MAR 24 2004

Oil Conservation Division
Environmental Bureau

RE: 2003 MONITOR WELL REPORT
GROUNDWATER REMEDIATION/MONITORING
PIPELINE LEAK, WEST COUNTY ROAD SITE, JCT. N-6
HOBBS SWD SYSTEM
SW1/4, NW ¼, SEC. 5,6, T19S, R38E, LEA COUNTY, NEW MEXICO

Mr. Olson:

Rice Operating Company (ROC) takes this opportunity to submit the 2003 Monitor Well Report for the Hobbs Salt Water Disposal System Junction N-6 Release Site in the SW ¼ NW ¼ of Sections 5, 6, T19S, R38E, Lea County, New Mexico. This monitoring site is located just south of the intersection of Highway 62-180 and the South Loop of the Hobbs West County Road By-Pass. The monitoring wells are defined on the enclosed site map and all wells are sampled quarterly pursuant to NMOCD guidelines.

Environmental Technology Group, Inc. (ETGI) of Hobbs performed the 2003 quarterly sampling of the wells at this site. Environmental Lab of Texas of Odessa, Texas and Cardinal Laboratory of Hobbs conducted analytical tests for these events. ETGI will continue to sample the wells in 2004.

ROC has actively worked toward recovering the phase-separated hydrocarbon (PSH) at the Recovery Well MW-1. A skimmer-type pump was installed in September 1999 but ROC soon discovered that the pump was not working properly and it was removed from the well. ROC tried other methods of recovery but the viscosity of the PSH makes recovery difficult. ROC is now recovering the PSH with an absorbent sock placed in the well. The saturated sock is replaced every week with a clean one. The sock absorbs approximately 0.5 gallons of fluid.

Rice Operating Company has contracted the consulting firm of Arcadis G & M, Inc. to devise a new recovery plan for the PSH in Recovery Well-1. NMOCd can expect this plan to be submitted this spring. All recovered fluids will be disposed of at a permitted commercial facility.

ROC is the service provider (operator) for the Hobbs Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The Hobbs SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. The Hobbs SWD System is in the process of abandonment.

Please find the enclosed summary of recovery activities and analytical reports from the monitor well sampling events. Thank you for consideration concerning this information.

RICE OPERATING COMPANY

Kristin Forrie

Kristin Farris
Project Scientist

enclosures: **Summary tables for analytical results**
 Site map
 Laboratory analysis

cc: LBG, CDH, Rob Roy Industries, file, Mr. Chris Williams
NMOCDD, District I Office
1625 N. French Drive
Hobbs, NM 88240

Hobbs N-6 (West County Rd.)
N, 6, 19S, 38E

Rice Operating Co. Monitor Well Data Sheet

MW #	(ft)		(gal)		SAMPLE DATE	TIME	All parameter concentrations are in mg/L.					
	WATER LEVEL	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED			CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
2	40.20	52.18	7.780	23.36	081402	0930	70.9	577	<0.001	<0.001	0.006	<0.002
	40.34	52.11	7.650	22.75	120602	1407	96	572	0.006	<0.002	0.015	0.007
	40.61	52.20	7.530	22.60	031403	1205	53.2	XXX	0.003	0.001	0.006	0.004
	40.29	52.13	7.690	23.08	062703	0955	40.8	499	<0.001	<0.001	<0.001	<0.001
	40.26	52.14	7.750	23.27	092203	1316	31.9	504	<0.001	<0.001	<0.001	<0.001
	40.39	52.13	7.660	22.99	121803	1230	44	458	<0.002	<0.002	<0.002	<0.006
3	40.57	156.05	75.060	225.18	081402	1340	7440	13900	0.073	<0.001	<0.001	0.010
	40.76	156.02	74.920	224.76	120602	1150	6498	11380	<0.002	<0.002	<0.002	<0.006
	40.95	156.02	74.790	224.38	031403	1155	5850	XXX	0.060	0.001	0.001	0.003
	40.69	156.04	74.970	224.93	062703	1022	5320	10700	0.013	<0.001	<0.001	0.001
	40.68	156.06	75.340	226.02	092203	1322	5320	10900	0.008	<0.001	<0.001	0.001
	40.12	156.67	75.230	225.69	121803	0100	5398	10512		<0.002	<0.002	<0.006
4	42.42	56.65	9.240	27.74	081402	1445	115	654	<0.001	<0.001	<0.001	<0.001
	42.64	56.66	9.140	27.42	120602	1225	108	590	<0.002	<0.002	<0.002	<0.006
	42.84	56.63	8.960	26.89	031403	1245	84.2	XXX	<0.001	<0.001	<0.001	<0.001
	42.58	56.65	9.140	27.43	062703	1100	62	520	<0.001	<0.001	<0.001	0.002
	42.66	56.70	9.160	27.50	092203	1338	65.1	569	<0.001	<0.001	<0.001	<0.001
	42.69	56.67	9.120	27.38	121803	0130	64	547	<0.002	<0.002	<0.002	<0.006
5	38.66	51.29	8.200	24.62	081402	1130	42.5	530	<0.001	<0.001	<0.001	<0.001
	38.85	51.18	8.010	24.04	120602	1035	48	522	<0.002	<0.002	<0.002	<0.006
	39.04	51.18	7.890	23.67	031403	1225	39	XXX	<0.001	<0.001	<0.001	<0.001
	38.81	51.21	8.060	24.18	062703	1035	35.4	513	<0.001	<0.001	<0.001	0.002
	38.77	51.20	8.110	24.35	092203	1349	33.7	508	<0.001	<0.001	<0.001	<0.001
	38.91	51.19	8.010	24.05	121803	0200	56	474	<0.002	<0.002	<0.002	<0.006
6	40.70	52.98	1.960	5.89	081402	1030	35.4	512	<0.001	<0.001	<0.001	<0.001
	40.87	53.02	1.940	5.83	120602	0938	52	476	<0.002	<0.002	<0.002	<0.006
	41.10	53.00	1.900	5.71	031403	1145	42.5	XXX	<0.001	<0.001	<0.001	<0.001
	40.81	53.03	1.950	5.86	062703	1045	35.4	473	<0.001	<0.001	<0.001	<0.001
	40.79	52.97	1.980	5.95	092203	1357	39	484	<0.001	<0.001	<0.001	<0.001
					121803	0230	21	207	<0.002	<0.002	<0.002	<0.006
7	40.74	47.20	1.030	3.10	081402	1415	230	813	0.007	<0.001	<0.001	<0.001
	40.94	47.14	0.990	2.98	120602	1245	204	744	0.007	<0.002	<0.002	<0.006
	41.22	47.18	0.950	2.86	031403	1255	266	XXX	0.001	<0.001	<0.001	<0.001
	40.88	47.15	1.000	3.00	062703	1111	222	802	<0.001	<0.001	<0.001	<0.001
	40.86	47.11	1.010	3.05	092203	1408	222	861	<0.001	<0.001	<0.001	<0.001

oil droplets

	40.93	53.00	1.000	3.00	121803	0300	142	285	<0.002	<0.002	<0.002	<0.006	
IWW	40.42	98.25	58.980	176.95	081402	1100	57.6	510	<0.001	<0.001	<0.001	<0.001	
	40.79	98.18	57.390	111.91	031403	1215	239	XXX	0.004	<0.001	<0.001	<0.001	oil film
	40.45	98.24	37.56	112.69	062703	1010	40.70	465	<0.001	<0.001	<0.001	<0.001	
	40.34	98.20	37.780	113.34	092203	1419	42.5	493	<0.001	<0.001	<0.001	<0.001	
	40.33	98.23	37.8	113.42	121803	0330	34	812	<0.002	<0.002	<0.002	<0.006	



CURTIS MACHINE
WATER WELL

MW-4



MW-6



MW-1

MW-2

RICE ENGINEERING
N-6 SWD LINE

MW-7



MW-3



INACTIVE
WATER WELL



MW-5

SOUTH HOBBS BY-
PASS

GRAY HOUSE WATER
WELL



November 2001
Scale 1" = 200'

Rice Operating Company
Site Plan

Line N - 6
Sec 5 & 6, T19S, R38E
Lea Co., New Mexico

Safety & Environmental
Solutions, Inc.





ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 12/18/03
Reporting Date: 12/22/03
Project Number: RI-2407
Project Name: N-6
Project Location: HOBBS, NM

Sampling Date: 12/18/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/19/03	12/19/03	12/19/03	12/19/03	12/19/03	12/19/03
H8268-1	MW 2	29	83	20	1.98	743	253
H8268-2	MW 3	3313	324	87	41.8	17832	405
H8268-3	MW 4	61	78	5.48	2.08	824	216
H8268-4	MW 5	23	86	21	2.03	774	235
Quality Control		NR	56	59	5.17	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	112	118	103	93.6	NR
Relative Percent Difference		NR	0	0	1	0.7	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:		12/19/03	12/19/03	12/19/03	12/19/03	12/19/03	12/22/03
H8268-1	MW 2	44	37.7	0	309	7.09	458
H8268-2	MW 3	5398	399	0	494	7.03	10512
H8268-3	MW 4	64	44.8	0	264	7.37	547
H8268-4	MW 5	56	39.4	0	286	7.49	474
Quality Control		940	53.65	NR	996	7.01	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		94.0	107	NR	99.6	100	NR
Relative Percent Difference		7.4	1.5	NR	0	0.1	1.4

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

Chemist

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.

H8268



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 12/18/03
Reporting Date: 12/22/03
Project Number: RI-2407
Project Name: N-6
Project Location: HOBBS, NM

Sampling Date: 12/18/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

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:		12/19/03	12/19/03	12/19/03	12/19/03	12/19/03	12/19/03
H8268-5	MW 6	21	87	10	3.46	730	207
H8268-6	MW 7	142	86	23	4.77	1393	285
H8268-7	IWW	34	68	20	3.23	812	216
Quality Control		NR	56	59	5.17	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	112	118	103	93.6	NR
Relative Percent Difference		NR	0	0	1	0.7	NR

METHODS: SM3500-Ca-D3500-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:		12/19/03	12/19/03	12/19/03	12/19/03	12/19/03	12/22/03
H8268-5	MW 6	44	36.8	0	253	7.44	452
H8268-6	MW 7	208	44.4	0	348	7.40	827
H8268-7	IWW	52	38.6	0	264	7.52	485
Quality Control		940	53.65	NR	996	7.01	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		94.0	107	NR	99.6	100	NR
Relative Percent Difference		7.4	1.5	NR	0	0.1	1.4

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

Chemist

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.

H8268a



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

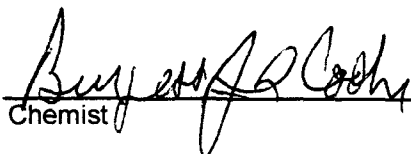
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 12/18/03
Reporting Date: 12/19/03
Project Number: RI-2407
Project Name: N-6
Project Location: HOBBS, NM

Sampling Date: 12/18/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/18/03	12/18/03	12/18/03	12/18/03
H8268-1	MW 2	<0.002	<0.002	<0.002	<0.006
H8268-2	MW 3	0.018	<0.002	<0.002	<0.006
H8268-3	MW 4	<0.002	<0.002	<0.002	<0.006
H8268-4	MW 5	<0.002	<0.002	<0.002	<0.006
H8268-5	MW 6	<0.002	<0.002	<0.002	<0.006
H8268-6	MW 7	<0.002	<0.002	<0.002	<0.006
H8268-7	IWW	<0.002	<0.002	<0.002	<0.006
Quality Control		0.099	0.100	0.099	0.302
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.1	100	98.7	101
Relative Percent Difference		3.2	3.6	3.1	2.5

METHOD: EPA SW-846 8260


Chemist

12/19/03
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.

H8268B.XLS



ARDINAL LABORATORIES, INC.

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

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: <u>RICE Operating Company</u>		BILL TO		ANALYSIS REQUEST																							
Object Manager: <u>Kristin Faris</u>		P.O. #: <u>RICE</u>		TDS BTEX Major anions + cations																							
Address: <u>122 W. Taylor</u>		Company:																									
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:																									
Phone #: <u>(505) 393-9174</u> Fax #: <u>(505) 393-1471</u>		Address:																									
Object #: <u>RI-2407</u> Project Owner:		City:																									
Object Name: <u>N-6</u>		State: Zip:																									
Object Location: <u>Hobbs</u>		Phone #:																									
Analyst Name: <u>Justin Frisk</u>		Fax #:																									
RECEIVED ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
115268-1	MW 2		4	X						X	X		12-18-03	12:30	X	X	X										
-2	MW 3		4	X						X	X			1:00	X	X	X										
-3	MW 4		4	X						X	X			1:30	X	X	X										
-4	MW 5		4	X						X	X			2:00	X	X	X										
-5	MW 6		4	X						X	X			2:30	X	X	X										
-6	MW 7		4	X						X	X			3:00	X	X	X										
-7	IWW		4	X						X	X			3:30	X	X	X										

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. 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, 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Relinquished By:	Date: <u>12-18-03</u>	Received By:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: <u>2:50</u>		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
	Date:	Received By: (Lab Staff)	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition		CHECKED BY:	
Order - UPS - Bus - Other:	Cool Intact		(Initials)	
	☒ Yes ☐ No			

* 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: RI-2407 Hobbs N-6
PO#: RI-2407 Hobbs N-6
Order#: G0307534
Report Date: 09/27/2003

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#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

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>
0307534-01	MW-2	WATER	9/22/2003 13:16	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307534-02	MW-3	WATER	9/22/2003 13:22	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307534-03	MW-4	WATER	9/22/2003 13:38	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307534-04	MW-5	WATER	9/22/2003 13:49	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307534-05	MW-6	WATER	9/22/2003 13:57	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

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>
	Total Dissolved Solids (TDS)					
0307534-06	MW-7	WATER	9/22/2003 14:08	9/23/2003 10:45	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: See COC		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307534-07	IWW	WATER	9/22/2003 14:19	9/23/2003 10:45	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

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-01
Sample ID: MW-2

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>		
0006950-02		9/25/03	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	96%	80	120

Lab ID: 0307534-02
Sample ID: MW-3

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>		
0006950-02		9/25/03	1	1	RKT	8021B

Parameter	Result mg/L	RL
Benzene	0.008	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	92%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-03
Sample ID: MW-4

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>		
0006950-02		9/25/2003	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	80%	80	120

Lab ID: 0307534-04
Sample ID: MW-5

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>		
0006950-02		9/25/2003	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	82%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-05
Sample ID: MW-6

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>		
0006950-02		9/25/2003	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	80	120
Bromofluorobenzene	84%	80	120

Lab ID: 0307534-06
Sample ID: MW-7

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>		
0006950-02		9/25/2003	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	92%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-07
Sample ID: IWW

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>		
0006950-02		9/25/2003	1	1	RKT	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	83%	80	120

Approval:

Raland K. Tuttle 10-01-03
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.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-01

Sample ID: MW-2

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	227	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	31.9	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	88.8	mg/L	2	1.0	375.4	9/25/2003	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	82.0	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	15.4	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	3.77	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	63.9	mg/L	10	0.10	6010B	9/25/2003	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	504	mg/L	1	5.0	160.1	9/24/2003	SB

Lab ID: 0307534-02

Sample ID: MW-3

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	364	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	5320	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	1050	mg/L	25	12.5	375.4	9/25/2003	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	339	mg/L	100	1.0	6010B	9/25/2003	SM
Magnesium	124	mg/L	100	0.10	6010B	9/25/2003	SM
Potassium	90.4	mg/L	100	5.0	6010B	9/25/2003	SM
Sodium	3440	mg/L	1000	10.0	6010B	9/25/2003	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	10900	mg/L	1	5.0	160.1	9/24/2003	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-03

Sample ID: MW-4

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	192	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	65.0	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	123	mg/L	2.5	1.25	375.4	9/25/2003	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	87.7	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	16.2	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	4.47	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	77.2	mg/L	10	0.10	6010B	9/25/2003	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)	569	mg/L	1	5.0	160.1	9/24/2003	SB

Lab ID: 0307534-04

Sample ID: MW-5

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	228	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	33.7	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	88.2	mg/L	2	1.0	375.4	9/25/2003	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	89.1	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	16.9	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	4.35	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	63.1	mg/L	10	0.10	6010B	9/25/2003	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)	508	mg/L	1	5.0	160.1	9/24/2003	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-05

Sample ID: MW-6

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	212	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	39.0	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	88.4	mg/L	2	1.0	375.4	9/25/2003	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	79.4	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	15.2	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	4.20	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	57.6	mg/L	10	0.10	6010B	9/25/2003	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	484	mg/L	1	5.0	160.1	9/24/2003	SB

Lab ID: 0307534-06

Sample ID: MW-7

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	228	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	222	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	110	mg/L	2	1.0	375.4	9/25/2003	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	96.8	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	17.6	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	8.03	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	173	mg/L	100	1.0	6010B	9/25/2003	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	861	mg/L	1	5.0	160.1	9/24/2003	SB

RL = Reporting Limit N/A = Not Applicable

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307534
Project:
Project Name: RI-2407 Hobbs N-6
Location: None Given

Lab ID: 0307534-07

Sample ID: IWW

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	256	mg/L	1	2.00	310.1	9/23/2003	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
Chloride	42.5	mg/L	1	5.00	9253	9/23/2003	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	9/23/2003	SB
SULFATE, 375.4	79.6	mg/L	2	1.0	375.4	9/25/2003	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	69.8	mg/L	10	0.10	6010B	9/25/2003	SM
Magnesium	13.9	mg/L	10	0.010	6010B	9/25/2003	SM
Potassium	6.39	mg/L	1	0.050	6010B	9/25/2003	SM
Sodium	98.6	mg/L	10	0.10	6010B	9/25/2003	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	493	mg/L	1	5.0	160.1	9/24/2003	SB

Approval:

Raland K. Tuttle 9-30-03
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 4 of 4

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#: G0307534

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006950-02			<0.001		
Toluene-mg/L		0006950-02			<0.001		
Ethylbenzene-mg/L		0006950-02			<0.001		
p/m-Xylene-mg/L		0006950-02			<0.001		
o-Xylene-mg/L		0006950-02			<0.001		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006950-03		0.1	0.098	98.%	
Toluene-mg/L		0006950-03		0.1	0.096	96.%	
Ethylbenzene-mg/L		0006950-03		0.1	0.094	94.%	
p/m-Xylene-mg/L		0006950-03		0.2	0.191	95.5%	
o-Xylene-mg/L		0006950-03		0.1	0.095	95.%	
CONTROL DI/P							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006950-04		0.1	0.102	102.%	4.%
Toluene-mg/L		0006950-04		0.1	0.099	99.%	3.1%
Ethylbenzene-mg/L		0006950-04		0.1	0.093	93.%	1.1%
p/m-Xylene-mg/L		0006950-04		0.2	0.188	94.%	1.6%
o-Xylene-mg/L		0006950-04		0.1	0.092	92.%	3.2%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006950-05		0.1	0.097	97.%	
Toluene-mg/L		0006950-05		0.1	0.095	95.%	
Ethylbenzene-mg/L		0006950-05		0.1	0.092	92.%	
p/m-Xylene-mg/L		0006950-05		0.2	0.187	93.5%	
o-Xylene-mg/L		0006950-05		0.1	0.093	93.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0307534

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0006905-01			<2.00		
Carbonate Alkalinity-mg/L		0006906-01			<0.10		
Chloride-mg/L		0006904-01			<5.00		
Hydroxide Alkalinity-mg/L		0006907-01			<0.10		
SULFATE, 375.4-mg/L		0006943-01			<.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0307534-01	227		228		0.4%
Carbonate Alkalinity-mg/L		0307534-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0307534-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0307534-01	88.8		89.0		0.2%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307534-01	31.9	100	133	101.1%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307534-01	31.9	100	131	99.1%	1.5%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0006905-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0006906-04		0.05	0.0496	99.2%	
Chloride-mg/L		0006904-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0006907-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0006943-04		50	50.80	101.6%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0307534

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006926-02			<0.010		
Magnesium-mg/L		0006926-02			<0.001		
Potassium-mg/L		0006926-02			<0.050		
Sodium-mg/L		0006926-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0307534-02	339		338		0.3%
Magnesium-mg/L		0307534-02	124		124		0.0%
Potassium-mg/L		0307534-02	90.4		88.6		2.0%
Sodium-mg/L		0307534-02	3440		3384		1.6%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006926-05		2	1.97	98.5%	
Magnesium-mg/L		0006926-05		2	2.13	106.5%	
Potassium-mg/L		0006926-05		2	1.79	89.5%	
Sodium-mg/L		0006926-05		2	1.86	93.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307534

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0006925-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0307534-02	10900		10800		0.9%

CHAIN-OF-CUSTODY

WWW.ANALYSYSINC.COM



3512 Montopolis Drive, Austin, TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411

2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name Rice
Environmental Technology Group

Address 2540 W. Marland

City Hobbs State N.M. Zip 88240

ATTN: Jerry Brien

Phone (505) 397-4882 Fax (505) 397-4701

Rush Status (must be confirmed with lab mgr.): _____

Project Name/PO#: RI-2407 Hobbs A-6 Sampler: Justin Feick

Bill to (if different):

Company Name Rice

Address _____

City _____ State _____ Zip _____

ATTN: _____

Phone _____ Fax _____

Analyses Requested (1)

Please attach explanatory information as required

0307534

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTX	8021 b	Amis	Cations	TDS (as per instr)					Comments
mw-2	9-22-03	1:16	4		X		-01	X	X	X	X						
mw-3	9-22-03	1:22	4		X		-02	X	X	X	X						
mw-4	9-22-03	1:38	4		X		-03	X	X	X	X						
mw-5	9-22-03	1:49	4		X		-04	X	X	X	X						
mw-6	9-22-03	1:57	4		X		-05	X	X	X	X						
mw-7	9-22-03	2:08	4		X		-06	X	X	X	X						
IWW	9-22-03	2:19	4		X		-07	X	X	X	X						

1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
<u>Justin Feick</u>	<u>ETG</u>	<u>9-22-03</u>	<u>2:49</u>	<u>X. Feick</u>	<u>RICE</u>	<u>9-23-03</u>	<u>945</u>
<u>K. Feick</u>	<u>RICE</u>	<u>9-23-03</u>	<u>945</u>	<u>James Murray</u>	<u>Env. Lab of TX</u>	<u>9-23-03</u>	<u>1045</u>

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.

w/HCl 40mL glass - 3.0°C

ANALYTICAL REPORT

Prepared for:

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

Project: Hobbs N-6

PO#:

Order#: G0306861

Report Date: 07/08/2003

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#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

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>
0306861-01	MW-2	WATER	6/27/03 9:55	6/28/03 8:20	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						
0306861-02	MW-3	WATER	6/27/03 10:22	6/28/03 8:20	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						
0306861-03	MW-4	WATER	6/27/03 11:00	6/28/03 8:20	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						
0306861-04	MW-5	WATER	6/27/03 10:35	6/28/03 8:20	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						
0306861-05	MW-6	WATER	6/27/03 10:45	6/28/03 8:20	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

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>
	Total Dissolved Solids (TDS)					
0306861-06	MW-7	WATER	6/27/03 11:11	6/28/03 8:20	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0306861-07	IWW	WATER	6/27/03 10:10	6/28/03 8:20	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#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-01
Sample ID: MW-2

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
0006040-02		6/30/03 17:26	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	97%	80	120

Lab ID: 0306861-02
Sample ID: MW-3

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
0006040-02		6/30/03 17:47	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.013	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	103%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-03
Sample ID: MW-4

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>		
0006040-02		6/30/03 18:08	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	104%	80	120

Lab ID: 0306861-04
Sample ID: MW-5

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>		
0006040-02		7/1/03 10:13	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	120%	80	120
Bromofluorobenzene	114%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-05
Sample ID: MW-6

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>		
0006040-02		6/30/03 18:50	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	112%	80	120
Bromofluorobenzene	112%	80	120

Lab ID: 0306861-06
Sample ID: MW-7

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>		
0006040-02		6/30/03 19:11	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	99%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-07
Sample ID: IWW

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>
0006040-02		6/30/03 19:32	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	106%	80	120
Bromofluorobenzene	106%	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.

Date

07-08-03

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-01

Sample ID: MW-2

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	223	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	40.8	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	112	mg/L	5	2.5	375.4	7/1/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	74.1	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	13.7	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	3.70	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	57.6	mg/L	10	0.10	6010B	7/7/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	499	mg/L	1	5.0	160.1	6/28/03	SB

Lab ID: 0306861-02

Sample ID: MW-3

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	346	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	5320	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	1120	mg/L	25	12.5	375.4	7/1/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	336	mg/L	100	1.0	6010B	7/7/03	SM
Magnesium	93.1	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	103	mg/L	10	0.50	6010B	7/7/03	SM
Sodium	2780	mg/L	1000	10.0	6010B	7/7/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	10700	mg/L	1	5.0	160.1	6/28/03	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-03

Sample ID: MW-4

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	192	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	62.0	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	138	mg/L	5	2.5	375.4	7/1/03	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	80.1	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	14.2	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	3.93	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	64.1	mg/L	10	0.10	6010B	7/7/03	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)	520	mg/L	1	5.0	160.1	6/28/03	SB

Lab ID: 0306861-04

Sample ID: MW-5

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	224	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	35.4	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	120	mg/L	5	2.5	375.4	7/1/03	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	74.9	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	13.6	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	3.76	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	46.8	mg/L	10	0.10	6010B	7/7/03	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)	513	mg/L	1	5.0	160.1	6/28/03	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-05
Sample ID: MW-6

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	208	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	35.4	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	97.5	mg/L	5	2.5	375.4	7/1/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	73.9	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	13.7	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	3.46	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	44.8	mg/L	10	0.10	6010B	7/7/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	473	mg/L	1	5.0	160.1	6/28/03	SB

Lab ID: 0306861-06
Sample ID: MW-7

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	226	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	222	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	133	mg/L	5	2.5	375.4	7/1/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	83.8	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	14.9	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	6.77	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	143	mg/L	100	1.0	6010B	7/7/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	802	mg/L	1	5.0	160.1	6/28/03	SB

RL = Reporting Limit N/A = Not Applicable

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306861
Project: RI-2407
Project Name: Hobbs N-6
Location:

Lab ID: 0306861-07

Sample ID: IWW

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	240	mg/L	1	2.00	310.1	6/28/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
Chloride	40.7	mg/L	1	5.00	9253	7/1/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	6/28/03	SB
SULFATE, 375.4	102	mg/L	5	2.5	375.4	7/1/03	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	58.8	mg/L	10	0.10	6010B	7/7/03	SM
Magnesium	10.0	mg/L	10	0.010	6010B	7/7/03	SM
Potassium	5.46	mg/L	1	0.050	6010B	7/7/03	SM
Sodium	79.4	mg/L	10	0.10	6010B	7/7/03	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)	465	mg/L	1	5.0	160.1	6/28/03	SB

Approval:

Raland K. Tuttle
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

7-08-03

RL = Reporting Limit N/A = Not Applicable

Page 4 of 4

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306861

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0006040-02			<0.001		
Toluene-mg/L		0006040-02			<0.001		
Ethylbenzene-mg/L		0006040-02			<0.001		
p/m-Xylene-mg/L		0006040-02			<0.001		
o-Xylene-mg/L		0006040-02			<0.001		
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0306861-01	0	0.1	0.101	101.%	
Toluene-mg/L		0306861-01	0	0.1	0.097	97.%	
Ethylbenzene-mg/L		0306861-01	0	0.1	0.095	95.%	
p/m-Xylene-mg/L		0306861-01	0	0.2	0.194	97.%	
o-Xylene-mg/L		0306861-01	0	0.1	0.096	96.%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0306861-01	0	0.1	0.107	107.%	5.8%
Toluene-mg/L		0306861-01	0	0.1	0.103	103.%	6.%
Ethylbenzene-mg/L		0306861-01	0	0.1	0.102	102.%	7.1%
p/m-Xylene-mg/L		0306861-01	0	0.2	0.208	104.%	7.%
o-Xylene-mg/L		0306861-01	0	0.1	0.103	103.%	7.%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0006040-05		0.1	0.115	115.%	
Toluene-mg/L		0006040-05		0.1	0.114	114.%	
Ethylbenzene-mg/L		0006040-05		0.1	0.112	112.%	
p/m-Xylene-mg/L		0006040-05		0.2	0.232	116.%	
o-Xylene-mg/L		0006040-05		0.1	0.115	115.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0306861

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0006003-01			<2.00		
Carbonate Alkalinity-mg/L		0006004-01			<0.10		
Chloride-mg/L		0006050-01			<5.00		
Hydroxide Alkalinity-mg/L		0006005-01			<0.10		
SULFATE, 375.4-mg/L		0006063-01			<0.50		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0306861-01	223		224		0.4%
Carbonate Alkalinity-mg/L		0306861-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0306861-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0306861-07	102		110		7.5%
MS	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306852-01	106	250	350	97.6%	
MSD	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306852-01	106	250	346	96.0%	1.1%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0006003-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0006004-04		0.05	0.0496	99.2%	
Chloride-mg/L		0006050-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0006005-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0006063-04		50	51.0	102.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0306861

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006081-02			<0.010		
Magnesium-mg/L		0006081-02			<0.001		
Potassium-mg/L		0006081-02			<0.050		
Sodium-mg/L		0006081-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0306861-01	74.1		74.6		0.7%
Magnesium-mg/L		0306861-01	13.7		14.0		2.2%
Potassium-mg/L		0306861-01	3.7		3.68		0.5%
Sodium-mg/L		0306861-01	57.6		58.0		0.7%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006081-05		2	2.07	103.5%	
Magnesium-mg/L		0006081-05		2	2.18	109.%	
Potassium-mg/L		0006081-05		2	1.90	95.%	
Sodium-mg/L		0006081-05		2	1.96	98.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306861

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0006015-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0306861-01	499		503		0.8%

ANALYSIS
INC.

3512 Montopolis Drive, Austin, TX 78741
Phone: (512) 385-5886 Fax: (512) 385-7411

2209 N.P.L.D., Ste K, Corpus Christi, TX 78401
Phone: (361) 289-6384 Fax: (361) 289-0808

Phone: (361) 289-6384 Fax: (361) 289-08

Phone: (361) 289-6384 Fax: (361) 289-08

Phone: (361) 289-6384 Fax: (361) 289-08

Phone: (361) 289-6384 Fax: (361) 289-08

Phone: (361) 289-6384 Fax: (361) 289-08

Phone: (361) 289-6384 Fax: (361) 289-08

Please attach explanatory information as requ

Zip _____ Phone (361) _____

 7-1471
 BTX 80216 (2) 40mg/less H₂O
 TDS (1) 500 ml HDPE
 Chlorides
 Major anions/cat.

4.0°C

Name CO Hargrove

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

Hobbs N-6

ANALYTICAL REPORT

Prepared for:

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

Project: Rice
PO#: RI-2407
Order#: G0305981
Report Date: 03/20/2003

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#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

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>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0305981-01	MW-2	WATER	3/14/03 12:05	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
0305981-02	MW-3	WATER	3/14/03 11:55	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
0305981-03	MW-4	WATER	3/14/03 12:45	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
0305981-04	MW-5	WATER	3/14/03 12:25	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
0305981-05	MW-6	WATER	3/14/03 11:45	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
0305981-06	MW-7	WATER	3/14/03 12:55	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

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>
	Anions Cations					
0305981-07	IWW	WATER	3/14/03 12:15	3/14/03 19:30	Bottle	See COC
	<u>Lab Testing:</u> 8021B/5030 BTEX Anions Cations	Rejected: No		Temp: 2.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-01
Sample ID: MW-2

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0004972-02		3/17/03 21:48	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.003	0.001
Toluene	0.001	0.001
Ethylbenzene	0.006	0.001
p/m-Xylene	0.004	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	106%	80	120
Bromofluorobenzene	132%	80	120

Lab ID: 0305981-02
Sample ID: MW-3

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0004972-02		3/17/03 22:08	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.060	0.001
Toluene	0.001	0.001
Ethylbenzene	0.001	0.001
p/m-Xylene	0.003	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	133%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-03
Sample ID: MW-4

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004972-02		3/18/03 14:23	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	113%	80	120

Lab ID: 0305981-04
Sample ID: MW-5

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004972-02		3/18/03 14:43	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	106%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-05
Sample ID: MW-6

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
0004972-02		3/17/03 23:08	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	107%	80	120
Bromofluorobenzene	120%	80	120

Lab ID: 0305981-06
Sample ID: MW-7

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
0004972-02		3/18/03 15:03	1	1	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	106%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-07
Sample ID: IWW

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004972-02		3/18/03 15:23	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.004	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	116%	80	120

Approval:

Raland K Tuttle 3-26-03
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

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-01

Sample ID: MW-2

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	226	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	53.2	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	109	mg/L	2	1.0	375.4	3/17/03	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	84.1	mg/L	10	0.10	6010B	3/19/03	SM
Magnesium	15.4	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	4.42	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	64.6	mg/L	10	0.10	6010B	3/19/03	SM

Lab ID: 0305981-02

Sample ID: MW-3

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	340	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	5850	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	888	mg/L	12.5	6.25	375.4	3/17/03	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	398	mg/L	100	1.0	6010B	3/19/03	SM
Magnesium	137	mg/L	100	0.10	6010B	3/19/03	SM
Potassium	73.2	mg/L	100	5.0	6010B	3/19/03	SM
Sodium	3690	mg/L	1000	10.0	6010B	3/19/03	SM

Lab ID: 0305981-03

Sample ID: MW-4

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	198	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	84.2	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-03

Sample ID: MW-4

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
SULFATE, 375.4	123	mg/L	2	1.0	375.4	3/17/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	83.1	mg/L	10	0.10	6010B	3/19/03	SM
Magnesium	14.7	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	4.94	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	80.7	mg/L	10	0.10	6010B	3/19/03	SM

Lab ID: 0305981-04

Sample ID: MW-5

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	224	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	39.0	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	105	mg/L	2	1.0	375.4	3/17/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	82.0	mg/L	10	0.10	6010B	3/19/03	SM
Magnesium	14.8	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	4.06	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	58.4	mg/L	10	0.10	6010B	3/19/03	SM

Lab ID: 0305981-05

Sample ID: MW-6

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	202	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	42.5	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	96.6	mg/L	2	1.0	375.4	3/17/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	78.0	mg/L	10	0.10	6010B	3/19/03	SM

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Lab ID: 0305981-05

Sample ID: MW-6

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Magnesium	14.2	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	3.96	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	52.4	mg/L	10	0.10	6010B	3/19/03	SM

Lab ID: 0305981-06

Sample ID: MW-7

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	230	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	266	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	122	mg/L	2	1.0	375.4	3/17/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	97.9	mg/L	10	0.10	6010B	3/19/03	SM
Magnesium	17.0	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	9.00	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	147	mg/L	100	1.0	6010B	3/19/03	SM

Lab ID: 0305981-07

Sample ID: IWW

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	246	mg/L	1	2.00	310.1	3/17/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
Chloride	239	mg/L	1	5.00	9253	3/17/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/17/03	SB
SULFATE, 375.4	110	mg/L	2	1.0	375.4	3/17/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	69.9	mg/L	10	0.10	6010B	3/19/03	SM
Magnesium	14.6	mg/L	10	0.010	6010B	3/19/03	SM
Potassium	10.8	mg/L	1	0.050	6010B	3/19/03	SM
Sodium	184	mg/L	100	1.0	6010B	3/19/03	SM

RL = Reporting Limit N/A = Not Applicable

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305981
Project: RI-2407
Project Name: Rice
Location: Rice

Approval: Raland K. Tuttle 3-26-02
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#: G0305981

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004972-02			<0.001	
Toluene-mg/L		0004972-02			<0.001	
Ethylbenzene-mg/L		0004972-02			<0.001	
p/m-Xylene-mg/L		0004972-02			<0.001	
o-Xylene-mg/L		0004972-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0305966-01	0	0.1	0.095	95.%
Toluene-mg/L		0305966-01	0	0.1	0.098	98.%
Ethylbenzene-mg/L		0305966-01	0	0.1	0.100	100.%
p/m-Xylene-mg/L		0305966-01	0	0.2	0.209	104.5%
o-Xylene-mg/L		0305966-01	0	0.1	0.108	108.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0305966-01	0	0.1	0.101	101.%
Toluene-mg/L		0305966-01	0	0.1	0.104	104.%
Ethylbenzene-mg/L		0305966-01	0	0.1	0.107	107.%
p/m-Xylene-mg/L		0305966-01	0	0.2	0.222	111.%
o-Xylene-mg/L		0305966-01	0	0.1	0.114	114.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004972-05		0.1	0.093	93.%
Toluene-mg/L		0004972-05		0.1	0.096	96.%
Ethylbenzene-mg/L		0004972-05		0.1	0.096	96.%
p/m-Xylene-mg/L		0004972-05		0.2	0.201	100.5%
o-Xylene-mg/L		0004972-05		0.1	0.100	100.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0305981

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0004955-01			2.00	
Carbonate Alkalinity-mg/L		0004957-01			<0.10	
Chloride-mg/L		0004953-01			<5.00	
Hydroxide Alkalinity-mg/L		0004959-01			<0.10	
SULFATE, 375.4-mg/L		0004961-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0305981-01	226		225	0.4%
Carbonate Alkalinity-mg/L		0305981-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0305981-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0305966-02	319		311	2.5%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0305981-01	53.2	100	152	98.8%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0305981-01	53.2	100	151	97.8%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0004955-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0004957-04		0.05	0.0496	99.2%
Chloride-mg/L		0004953-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0004959-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0004961-04		50	52	104.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0305981

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004974-02			<0.010		
Magnesium-mg/L		0004974-02			<0.001		
Potassium-mg/L		0004974-02			<0.050		
Sodium-mg/L		0004974-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0305966-01	12.8		13.0		1.6%
Magnesium-mg/L		0305966-01	2.5		2.57		2.8%
Potassium-mg/L		0305966-01	5.38		5.44		1.1%
Sodium-mg/L		0305966-01	360		365		1.4%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004974-05		2	2.19	109.5%	
Magnesium-mg/L		0004974-05		2	2.06	103.%	
Potassium-mg/L		0004974-05		2	1.87	93.5%	
Sodium-mg/L		0004974-05		2	1.96	98.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0305981

Project: Rice

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
MW-2	0305981-01	WATER	03/14/2003	03/14/2003
MW-3	0305981-02	WATER	03/14/2003	03/14/2003
MW-4	0305981-03	WATER	03/14/2003	03/14/2003
MW-5	0305981-04	WATER	03/14/2003	03/14/2003
MW-6	0305981-05	WATER	03/14/2003	03/14/2003
MW-7	0305981-06	WATER	03/14/2003	03/14/2003
IWW	0305981-07	WATER	03/14/2003	03/14/2003

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0305981-01,02)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Roland K. Jurek
Environmental Lab of Texas I, Ltd.

Date:

3-26-03

CHAIN-OF-CUSTODY

Send Reports To:

Company Name E. T. G. L.

Address 5510 W. Pleasant

City Hebbville State TX Zip 78248

ATTN: Ken Dutton

Phone 512-488-3172 Fax 505-379-4901

Krush Status (must be confirmed with lab mgr.):

Project Name/PO#: RT 2407 Sampler: J. F. Tull

Bill to (if different):

Company Name Rice

Address

City

State

Zip

ATTN:

Phone

Fax

Analyses Requested (1)

Please attach explanatory information as requested

4221 Freidrich Lane, Suite 100, Austin, TX 78741
(512) 444-5896

ANALYSYS INC.

Client Sample No.	Description/Identification	Date	Time	No. of Containers	Soil	Water	Waste	Lab I.D. #										
MW-2		3-14-03	12:05	3	X			0305981-01	X	X	X	X	X	X	X	X	X	
MW-3		3-14-03	11:55	3	X			02	X	X	X	X	X	X	X	X	X	
MW-4		3-14-03	12:45	3	X			03	X	X	X	X	X	X	X	X	X	
MW-5		3-14-03	12:25	3	X			04	X	X	X	X	X	X	X	X	X	
MW-6		3-14-03	11:45	3	X			05	X	X	X	X	X	X	X	X	X	
MW-7		3-14-03	12:55	3	X			06	X	X	X	X	X	X	X	X	X	
IWC		3-14-03	12:15	3		X		07	X									

If analyses specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using AST's method of choice and all data will be reported to AST's nearest reporting office in units (MHD/POI). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, AST will default to Priority Reporting. AST's HST list at AST's option. Specific compound lists must be supplied for all GC procedures.

Analyses Requested: GC/MS GC/MS GC/MS GC/MS GC/MS GC/MS GC/MS GC/MS GC/MS GC/MS

Sample Relinquished By

Sample Received By

Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
<u>J. F. Tull</u>	<u>ETGI</u>	<u>3-14-03</u>	<u>17:00</u>	<u>R. E. Dutton</u>	<u>ECOT</u>	<u>3-14-03</u>	<u>19:30</u>

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms [see back]

Mc 27C